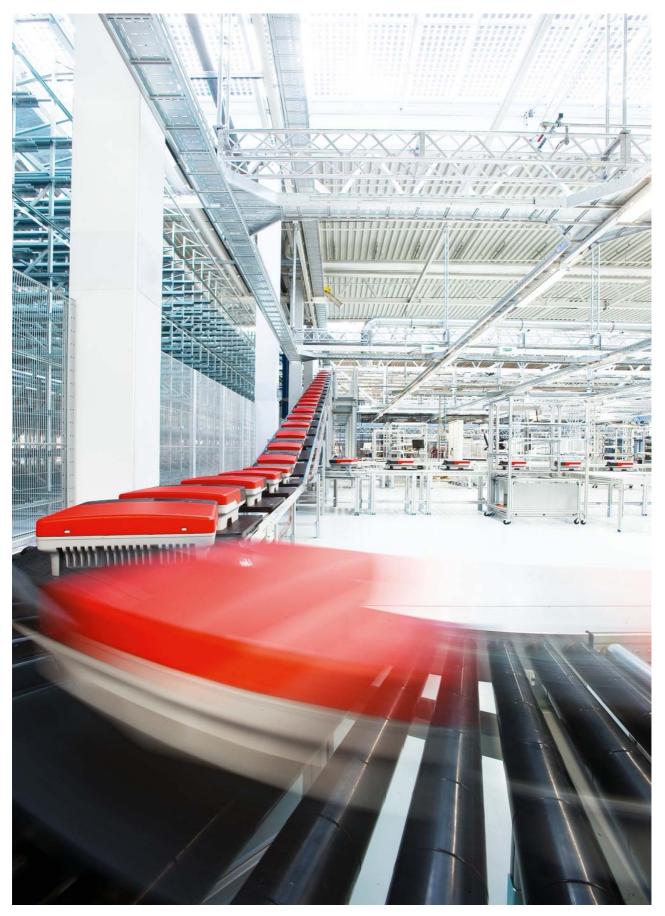


# **Product information**

# Valid from 01.01.2013 to 31.12.2013



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# Description of the Symbols Used



This symbol indicates a specification of a product or an information which is important for correct ordering (e. g. differences in version). Please pay special attention to these sections in order to avoid incorrect ordering.

# Exclusion of liability and Terms of delivery

#### Terms of delivery

The General Terms and Conditions of Delivery of SMA Solar Technology AG shall apply. Other agreements apply only, if they have been explicitly confirmed by SMA in writing.

This price list replaces and renders invalid all previous prices.

#### **Exclusion of liability**

The content of these documents is monitored in an ongoing manner and updated when necessary. Discrepancies may still arise. Subject to changes and errors. No guarantee is made for the completeness of these documents.

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## SMA Solar Technology AG

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# Sunny Tripower 20000TL Economic Excellence (STP 20000TLEE-10)

Valid from: as	provided	in contract
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STP 20000TLEE-10 (price before options):	x	xx	0	×	×	-	x	x xx	PV inverter for grid feed-in Pac,r/Sac, max 2 0000 W/ 2 0000 VA three-phase feed-in, 98.5 % maximum efficiency, with reactive power supply, transformerless, graphic display, rotary switch for language settings SMA Bluetooth® communication interface, integrated DC switch-disconnector, DC SUNCLIX terminal
specific price 1)									
	0								SMA Bluetooth® (integrated)
Communication:	1								SMA Bluetooth® (integrated) + RS485
commonication.	2								SMA Bluetooth® (integrated) + Webconnect
Color of lid:		08							Gentian blue (additional colors on request)
		00							
DC load				0					without mechanical DC switch-disconnector
disconnection unit:				2					with mechanical DC switch-disconnector (standard)
					0				Without (standard)
I/O port moduls:					1				Multi-function relay
					2				Power Control Module
							D	E	German
							Eľ	4	English
							E	5	Spanish
							F	ર	French
							G	R	Greek
Documentation:							п	г	Italian
							P	r	Portuguese
							C	z	Czech
							N	L	Dutch
							0	С	Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
						1		DE	Default Setting VDE-AR-N 4105 (standard)
Country specific grid									
settings:									Default setting for offgrid operation
-								zz	Grid parameter country settings: customer specification (setting code, if available).
	-	·						_	

#### Comments



# Sunny Tripower 15000TL Economic Excellence (STP 15000TLEE-10)

Valid from: as provided in contract

STP 15000TLEE-10 (price before options):	x	xx	0	×	: >	C .	- :	xx		PV inverter for grid feed-in Pac,r/Sac, max 1 5000 W/ 1 5000 VA three-phase feed-in, 98.5 % maximum efficiency, with reactive power supply, transformerless, graphic display, rotary switch for language settings SMA Bluetooth® communication interface, integrated DC switch-disconnector, DC SUNCLIX terminal
specific price 1)										
Communication:	0 1 2									SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect
Color of lid:		08								Gentian blue (additional colors on request)
DC load disconnection unit:				02						without mechanical DC switch-disconnector with mechanical DC switch-disconnector (standard)
I/O port moduls:					1	1				Without (standard) Multi-function relay Power Control Module
Documentation:							1	DE EN ES FR GR IT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:									OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Tripower 17000TL (STP 17000TL-10)

Valid from: as provided	in c	ontr	ract					
STP 17000TL-10 (price before options):	x	xx	x	×	-	x	x x	Solar inverter for grid feed-in Pac,r/Sac,max 17000 W/ 17000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)								
Communication:	0 1 2							SMA Bluetoath® (integrated) SMA Bluetoath® (integrated) + RS485 SMA Bluetoath® (integrated) + Webconnect
Color of lid:		08						Gentian blue (additional colors on request)
DC overvoltage discharger:			0 1 2					without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
I/O port moduls:				0 1 2				Without (standard) Multi-function relay Power Control Module
Documentation:						D Ef Fi G T P C C	N S R T T	German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:							D	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Tripower 15000TL (STP 15000TL-10)

Valid from: as provided in	n co	ontr	act					
STP 15000TL-10 (price before options):	x	xx	x	x	-	x	xx	Solar inverter for grid feed-in Pac,r/Sac,max 15000 W/ 15000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)								
Communication:	0 1 2							SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect
Color of lid:		08						Gentian blue (additional colors on request)
DC overvoltage discharger:			0 1 2					without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
I/O port moduls:				0 1 2				Without (standard) Multi-function relay Power Control Module
Documentation:						FI G IT P	N S R T T I L	German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:							c	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Tripower 12000TL (STP 12000TL-10)

Valid from: as provided in	n cc	ontr	act					
STP 12000TL-10 (price before options):	×	xx	x	x	-	x	xx	Solar inverter for grid feed-in Pac,r/Sac,max 12000 W/ 12000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)								
Communication:	0 1 2							SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect
Color of lid:		08						Gentian blue (additional colors on request)
DC overvoltage discharger:			0 1 2					without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
I/O port moduls:				0 1 2				Without (standard) Multi-function relay Power Control Module
Documentation:						FI G IT P	N S R R T T	German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:							D	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Tripower 10000TL (STP 10000TL-10)

Valid from: as provided	in co	ontr	ract					
STP 10000TL-10 (price before options):	x	xx	x	x	-	×	xx	Solar inverter for grid feed-in Pac,r/Sac,max 10000 W/ 10000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)								
Communication:	0 1 2							SMA Bluetoath® (integrated) SMA Bluetoath® (integrated) + RS485 SMA Bluetoath® (integrated) + Webconnect
Color of lid:		08						Gentian blue (additional colors on request)
DC overvoltage discharger:			0 1 2					without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
I/O port moduls:				0 1 2				Without (standard) Multi-function relay Power Control Module
Documentation:						EI F G I P C N	DE N S R R T T T Z Z	German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:							D	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Tripower 9000TL (STP 9000TL-20)

Valid from: as provided ir	n co	ntro	act			
STP 9000TL-20 (price before options):	xx	x	-	xx	x	Solar inverter for grid feed-in Pac,r/Sac, max 9000 W/9000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, multistring function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)						
	08					Gentian blue (additional colors on request)
I/O port moduls:		0 2				Without (standard) Power Control Module
Documentation:				DE EN ES FR GR IT PT CZ NL BE DK 00		German English Spanish French Greek Italian Portuguese Czech Dutch French, Dutch French, Dutch Danish Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:						Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Tripower 8000TL (STP 8000TL-20)

Valid from: as provided	in co	ont	ract			
STP 8000TL-20 (price before options):	xx	x	-	xx	< x	Solar inverter for grid feed-in Pac,r/Sac, max 8000 W/8000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, * rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, multi-string function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)						
Color of lid:	08					Gentian blue (additional colors on request)
I/O port moduls:		0 2				Without (standard) Power Control Module
Documentation:				DE EN ES FR GF IT CZ NI BE DK 00	N 5 R 7 Z L 5 5	German English Spanish French Greek Italian Portuguese Czech Dutch French, Dutch French, Dutch Danish Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:						<ul> <li>Default Setting VDE-AR-N 4105 (standard)</li> <li>F Default setting for offgrid operation</li> <li>g Grid parameter country settings: customer specification (setting code, if available).</li> </ul>

#### Comments



# Sunny Tripower 7000TL (STP 7000TL-20)

Valid from: as provided	in co	ont	ract			
STP 7000TL-20 (price before options):	xx	x		xx	< x	Solar inverter for grid feed-in Pac,r/Sac, max 7000 W/7000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, * rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, multi-string function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)						
Color of lid:	08					Gentian blue (additional colors on request)
I/O port moduls:		0 2				Without (standard) Power Control Module
Documentation:				DE EN ES FR GF IT CZ NI BE DK 00	N 5 R 7 Z L 5 5	German English Spanish French Greek Italian Portuguese Czech Dutch French, Dutch French, Dutch Danish Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:						<ul> <li>E Default Setting VDE-AR-N 4105 (standard)</li> <li>F Default setting for offgrid operation</li> <li>z Grid parameter country settings: customer specification (setting code, if available).</li> </ul>

#### Comments



# Sunny Tripower 6000TL (STP 6000TL-20)

Valid from: as provided in	n co	ntr	act			
STP 6000TL-20 (price before options):	xx	x		xx	( x	Solar inverter for grid feed-in Pac,r/Sac, max 6000 W/6000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, * rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, multi-string function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)						
	08					Gentian blue (additional colors on request)
I/O port moduls:		0 2				Without (standard) Power Control Module
Documentation:				DE EN ES FR GR IT PT CZ NL BE DK 00		German English Spanish French Greek Italian Portuguese Czech Dutch French, Dutch French, Dutch Danish Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:						E Default Setting VDE-AR-N 4105 (standard) F Default setting for offgrid operation z Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Tripower 5000TL (STP 5000TL-20)

Valid from: as provided in	in cc	ontr	act			
STP 5000TL-20 (price before options):	xx	x	-	xx	( x	Solar inverter for grid feed-in Pac,r/Sac, max 5000 W/5000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, <sup>5</sup> rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, multistring function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)						
	08					Gentian blue (additional colors on request)
I/O port moduls:		0 2				Without (standard) Power Control Module
Documentation:				DE EN ES FR GF IT CZ NI BE DK 00		German English Spanish French Greek Italian Portuguese Czech Dutch French, Dutch French, Dutch Danish Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:						E Default Setting VDE-AR-N 4105 (standard) F Default setting for offgrid operation g Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Sunny Mini Central 11000TL (SMC 11000TLRP-10) with Reactive Power Control

Valid from: as provided	in c	ont	ract						
SMC 11000TLRP-10 (price before options):	x	o	0	×	4	. 1	- x	ĸ x	Solar inverter for grid feed-in Pac,r/Sac,max 11000 W/11000 VA with reactive power supply transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:				0					red (additional colors on request)
Documentation:							D Et Fi G P C: N	N S R T Z	German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								0	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Sunny Mini Central 10000TL (SMC 10000TLRP-10) with Reactive Power Control

Valid from: as provided	in c	onti	ract						
SMC 10000TLRP-10 (price before options):	x	0	0	x	4	1	- x	к хх	Solar inverter for grid feed-in Pac,r/Sac,max 10000 W/10000 VA with reactive power supply transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:				0					red (additional colors on request)
Documentation:							D EI FI G P C N	N S R T Z	German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Sunny Mini Central 9000TL (SMC 9000TLRP-10) with Reactive Power Control

Valid from: as provided	in c	ont	ract						
SMC 9000TLRP-10 (price before options):	x	o	0	x	4	1	- x	x xx	Solar inverter for grid feed-in Pac,r/Sac,max 9000 W/9000 VA with reactive power supply transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:				0					red (additional colors on request)
Documentation:							P	N S R R	German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Mini Central 8000TL (SMC 8000TL)

Valid from: as provided SMC 8000TL (price before options):	x	onti 0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 8000 W/8000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:			0						red (additional colors on request)
Documentation:							DE EN ES FR GR PT CZ NL		German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								OF	Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Mini Central 7000TL (SMC 7000TL)

Valid from: as provided SMC 7000TL (price before options):	x	ont 0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 7000 W/7000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:			0						red (additional colors on request)
Documentation:							DE EN ES FR GR PT CZ NL		German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								OF	Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Mini Central 6000TL (SMC 6000TL)

Valid from: as provided SMC 6000TL (price before options):	x	onti 0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 6000 W/6000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:			0						red (additional colors on request)
Documentation:							DE EN ES FR GR PT CZ NL		German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								OF	Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Boy 5000TL (SB 5000TL-21)

Valid from: as provided in a	lid from: as provided in contract													
SB 5000TL-21 (price before × options):	: 1	xx	4	×	ſ	-	xx	xx	PV inverter for grid feed-in Pac,r/Sac, max 4600 W/ 5000 VA* transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, multistring function, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)					
specific price 1)														
Communication:									SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect					
Color of lid:	C	00							red (additional colors on request)					
I/O port moduls:				0 1 2					Without (standard) Multi-function relay Power Control Module					
Documentation:							DE EN ES FR GR IT CZ PT NL BE DK 00		German (Standard) English Spanish French Greek Italian Czech Portuguese Dutch French and Dutch Danish Language package (DE, EN, ES, FR, IT, PT)					
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).					

#### Comments

Can vary depending on options.
 \* with configuration according to VDE-AR-N 4105, limitation of Sac to max. 4600 W.



# Sunny Boy 4000TL (SB 4000TL-21)

Valid from: as provided in a	alid from: as provided in contract													
SB 4000TL-21 (price before × options):		xx	4	×	1	-	xx	xx	PV inverter for grid feed-in Pac,r/Sac, max 4000 W/ 4000 VA transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, multistring function, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)					
specific price 1)					T									
Communication:									SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect					
Color of lid:	¢	00							red (additional colors on request)					
I/O port moduls:				0 1 2					Without (standard) Multi-function relay Power Control Module					
Documentation:				-			DE ES FR GR IT CZ PT NL BE DK 00		German (Standard) English Spanish French Greek Italian Czech Portuguese Dutch French and Dutch Danish Language package (DE, EN, ES, FR, IT, PT)					
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).					

#### Comments



# Sunny Boy 3600TL (SB 3600TL-21)

Valid from: as provided in a	alid from: as provided in contract													
SB 3600TL-21 (price before × options):	,	x	4	x		-	xx	xx	PV inverter for grid feed-in Pac,r/Sac; max 3680 W/3680 VA transformerless, for reactive power supply, graphic display, rotary code switch for country settings SMA Bluetooth® communication interface, multi-string function DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)					
specific price 1)	T				T									
Communication:									SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect					
Color of lid:	c	0							red (additional colors on request)					
I/O port moduls:				0 1 2					Without (standard) Multi-function relay Power Control Module					
Documentation:				-			DE EN ES FR GR IT CZ PT NL BE DK 00		German (Standard) English Spanish French Greek Italian Czech Portuguese Dutch French and Dutch Danish Language package (DE, EN, ES, FR, IT, PT)					
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).					

#### Comments



# Sunny Boy 3000TL (SB 3000TL-21)

alid from: as provided in contract													
SB 3000TL-21 (price before × options):	×	ıx	4	x		-	xx	xx	PV inverter for grid feed-in Pac,r/Sac, max 3000 W/ 3000 VA transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, multistring function, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)				
specific price 1)													
Communication: 0 2									SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect				
Color of lid:	0	0							red (additional colors on request)				
I/O port moduls:				0 1 2					Without (standard) Multi-function relay Power Control Module				
Documentation:							DE EN ES FR GR IT CZ PT NL BE DK 00		German (Standard) English Spanish French Greek Italian Czech Portuguese Dutch French and Dutch Danish Language package (DE, EN, ES, FR, IT, PT)				
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).				

#### Comments



# Sunny Boy 3000TL SINGLE TRACKER (SB 3000TLST-21)

Valid from: as provided i	in co	ontr	ract					
SB 3000TLST-21 (price before options):	x	xx	4	×	×	xx	xx	PV inverter for grid feed-in Pac,r/Sac; max 3 000 W/ 3 000 VA transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)
specific price 1)								
Communication:	0 1 2							SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect
Color of lid:		00						red (additional colors on request)
ESS (DC switch):				0				Without With (Standard)
I/O port moduls:					0 1 2			Without (standard) Multi-function relay Power Control Module
Documentation:						DE EN ES FR GF IT CZ PT NI BE DF OC		German (Standard) English Spanish French Greek Italian Czech Portuguese Dutch French and Dutch Danish Language package (DE, EN, ES, FR, IT, PT)
Country specific grid settings:							OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Boy 2500TL SINGLE TRACKER (SB 2500TLST-21)

Valid from: as provided in contract											
SB 2500TLST-21 (price before options):	×	xx	4	к	c :	×		xx	xx	PV inverter for grid feed-in Pac,r/Sac; max 2500 W/ 2500 VA transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)	
specific price 1)				T							
Communication:	0 1 2									SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 SMA Bluetooth® (integrated) + Webconnect	
Color of lid:		00								red (additional colors on request)	
ESS (DC switch):				с 1						Without With (Standard)	
I/O port moduls:						0 1 2				Without (standard) Multi-function relay Power Control Module	
Documentation:								DE EN ES FR GR IT CZ PT NL BE DK 00		German (Standard) English Spanish French Greek Italian Czech Portuguese Dutch French and Dutch Danish Language package (DE, EN, ES, FR, IT, PT)	
Country specific grid settings:									OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).	

#### Comments



# Sunny Boy 2100TL (SB 2100TL)

Valid from: as provided in contract													
SB 2100TL (price before options):	×	0	o	×	4	×		xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 1950 W/2100 VA transformerless, text display, DC SUNCLIX terminal,			
specific price 1)													
Communication:	5 8 B									without communication interface RS485 SMA Bluetooth®			
Color of lid:				0						red (additional colors on request)			
ESS (DC switch):						0 1				Without With (Standard)			
Documentation:								DE EN ES FR GR IT CZ NL		German English Spanish French Greek Italian Czech Dutch			
Country specific grid settings:									OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).			

#### Comments



# Sunny Boy 1600TL (SB 1600TL-10)

Valid from: as provided	in co	ontr	act						
SB 1600TL-10 (price before options):	×	0	0	x	4	×	 xx ,	Po ex tro	olar inverter for grid feed-in ac,r/Sac, max 1600 W/1600 VA ansformerless, text display, C SUNCLIX terminal,
specific price 1)									
Communication:	5 8 B							R	ithout communication interface 5485 MA Bluetooth®
Color of lid:				0				re	d (additional colors on request)
ESS (DC switch):						0 1			/ithout /ith (Standard)
Documentation:							DE EN ES FR GR IT CZ NL	Er S  Fr G Itc D	erman nglish ench reek slian zech utch
Country specific grid settings:							c	DF D	efault Setting VDE-AR-N 4105 (standard) efault setting for offgrid operation rid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Boy 1300TL (SB 1300TL-10)

Valid from: as provided	in c	onti	ract							
SB 1300TL-10 (price before options):	x	o	0	x	4	x	-	xx	xx	PV inverter for grid feed-in Pac,r/Sac; max 1 300 W/ 1 300 W transformerless, text display, DC SUNCLIX terminal
specific price 1)										
Communication:	5 8 B									without communication interface RS485 SMA Bluetooth®
Color of lid:				0						red (additional colors on request)
ESS (DC switch):						0 1				Without With (Standard)
Documentation:								DE EN ES FR GR IT CZ NL		German English Spanish French Greek Italian Czech Dutch
Country specific grid settings:								c	OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments

# Inverters with transformer



# Sunny Mini Central 7000HV (SMC 7000HV-11)

Valid from: as provided SMC 7000HV-11 (price before options):	x		×	4	1	-	x	( XX	Solar inverter for grid feed-in Pac,r/Sac,max 6650 W/7000 VA galvanically isolated, with reactive power supply text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:			o						red (additional colors on request)
Documentation:							DE EN ES FR GI PT CZ NI	4 2 2 2	German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								0	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Mini Central 6000A (SMC 6000A-11)

Valid from: as provided	in c	ont	ract	ł					
SMC 6000A-11 (price before options):	x	o	0	x	4	1	- xx	( <b>xx</b>	Solar inverter for grid feed-in Pac,r/Sac, max 6 000 W/6 000 VA galvanically insulated, text display, with reactive power supply, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:				0					red (additional colors on request)
Documentation:							DE EN ES FR GI IT CZ NI		German English Spanish French Greek Portuguese Italian Czech Dutch
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Mini Central 5000A (SMC 5000A-11)

Valid from: as provided SMC 5000A-11 (price before options):	×	o		4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 5 000 W/5 500 VA galvanically insulated, text display, with reactive power supply, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:			0						red (additional colors on request)
Documentation:							DE EN ES FR GR PT CZ NL		German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



# Sunny Mini Central 4600A (SMC 4600A-11)

Valid from: as provided SMC 4600A-11 (price before options):	×	0		. 4	4	1	- ,	c x:	xx	Solar inverter for grid feed-in Pac,r/Sac, max 4600 W/5000 VA* galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5 8 B									without communication interface RS485 SMA Bluetooth®
Color of lid:			0							red (additional colors on request)
Documentation:								DE N S R G R G R C T Z Z		German English Spanish French Greek Portuguese Czech Dutch
Country specific grid settings:								¢	OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments

1) Can vary depending on options. \* with configuration according to VDE-AR-N 4105, limitation of Sac to max. 4600 W.



# Sunny Boy 3800 (SB 3800-11)

Valid from: as provided in contract											
SB 3800-11 (price before options):	×	o	0	×	4	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 3 800 W/3 800 VA galvanically insulated, text display, with reactive power supply, DC SUNCLIX terminal	
specific price 1)											
Communication:	5 8 B									without communication interface RS485 SMA Bluetooth®	
Color of lid:				0						red (additional colors on request)	
ESS (DC switch):						0				Without With (Standard)	
Documentation:								DE EN FR GR PT CZ NL		German English Spanish French Greek Portuguese Czech Dutch	
Country specific grid settings:									OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).	

#### Comments



# Sunny Boy 3300 (SB 3300-11)

Valid from: as provided in contract											
SB 3300-11 (price before options):	×	o	0	×	4	x	-	xx	xx	PV inverter for grid feed-in Pac,r/Sac, max 3 300 W/3 600 VA galvanically insulated, text display, with reactive power supply, DC connection SUNCLIX	
specific price 1)											
Communication:	5 8 B									without communication interface RS485 SMA Bluetooth®	
Color of lid:				0						red (additional colors on request)	
ESS (DC switch):						0				Without With (Standard)	
Documentation:								DE EN FR GR PT CZ NL		German English Spanish French Greek Portuguese Czech Dutch	
Country specific grid settings:									OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).	

#### Comments



# Sunny Boy 3000HF (SB 3000HF-30)

Valid from: as provided in	сс	ntr	act				
SB 3000HF-30 (price before options):	×	xx	×	-	xx	: xx	Solar inverter for grid feed-in Pac,r/Sac, max 3000 W/ 3000 VA galvanically isolated graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
	0						SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 and multi-function relay
Color of lid:		00					red (additional colors on request)
Grounding:			0 1 2 3				without grounding kit (standard) with grounding kit, without default setting with grounding kit, negative grounding by default with grounding kit, positive grounding by default
Documentation:					DE EN ES FR GF PT CZ NI		German English Spanish French Greek Portuguese Czech Dutch Language package (DE, EN, ES, FR, IT, PT)
Country specific grid settings:						OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

# Comments



# Sunny Boy 2500HF (SB 2500HF-30)

Valid from: as provided in	n cc	ntr	act			
SB 2500HF-30 (price before options):	×	xx	x	xx	xx xx	Solar inverter for grid feed-in Pac,r/Sac, max 2500 W/ 2500 VA galvanically isolated graphic display, rotary switch for country settings, SMA Bluetooth® communication interface, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)						
Communication:	0 1					SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 and multi-function relay
Color of lid:		00				red (additional colors on request)
Grounding:			0 1 2 3			without grounding kit (standard) with grounding kit, without default setting with grounding kit, negative grounding by default with grounding kit, positive grounding by default
Documentation:				DE EN ES FR GF PT CZ NI	1 1 2 2 1	German English Spanish French Greek Portuguese Czech Dutch Language package (DE, EN, ES, FR, IT, PT)
Country specific grid settings:					OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

# Comments



# Sunny Boy 2000HF (SB 2000HF-30)

Valid from: as provided in	сс	ntr	act				
SB 2000HF-30 (price before options):	×	xx	×	-	xx	: xx	Solar inverter for grid feed-in Pac,r/Sac, max 2000 W/ 2000 VA galvanically isolated graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
	0						SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485 and multi-function relay
Color of lid:		00					red (additional colors on request)
Grounding:			0 1 2 3				without grounding kit (standard) with grounding kit, without default setting with grounding kit, negative grounding by default with grounding kit, positive grounding by default
Documentation:					DE EN ES FR GF PT CZ NI		German English Spanish French Greek Portuguese Czech Dutch Language package (DE, EN, ES, FR, IT, PT)
Country specific grid settings:						OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

# Comments



# Sunny Boy 1200 (SB 1200)

SB 1200 (price before options):	x	×	4	-	x	x	Solar inverter for grid feed-in Pac,r/Sac, max 1200 W/1200 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
	5						without communication interface
Communication:	8						RS485
	В						SMA Bluetooth®
Color of lid:		0					red (additional colors on request)
					D	Е	German
					EÌ	N	English
					E	s	Spanish
Documentation:					F	R	French
20000000000					G	R	Greek
					Ρ	т	Portuguese
					С		Czech
					Ν		Dutch
						DE	Default Setting VDE-AR-N 4105 (standard)
Country specific grid settings:						o	Default setting for offgrid operation
						ZZ	Grid parameter country settings: customer specification (setting code, if available).

#### Comments

# Sunny Boy/Sunny Mini Central Demo

SBX Dummy

Sunny Boy 3300/3800 Demo, no function

SMCX-Dummy

Sunny Mini Central SMC x000TL, SMC x000A, SMC 7000 HV-11 Demo, no function

SB 3000HF-3Y (price before options):	x	xx	x	Demo device Sunny Boy 2000HF-30, 2500HF-30, 3000HF-30
	0			Typ: Sunny Boy 2000HF
Device type:	1 2			Typ: Sunny Boy 2500HF Typ: Sunny Boy 3000HF
Color of lid:		00		red (additional colors on request)
Cabinet:			0	only enclosure with display, no function

SB 5000TL-2Z (price before options):	×	xx	x	Demo device Sunny Boy 3000TL-21, SB 3600TL-21, SB 4000TL-21, SB 5000TL-21, SB 2500TLST-21, SB 3000TLST-21
	1			Typ: Sunny Boy 3000TL-21
	2			Typ: Sunny Boy 4000TL-21
Davies house	з			Typ: Sunny Boy 5000TL-21
Device type:	4			Typ: Sunny Boy 3600TL-21
	5			Typ: Sunny Boy 2500TLST-21
	6			Typ: Sunny Boy 3000TLST-21
Color of lid:		00		red (additional colors on request)
Cabinet:			0	only enclosure with display, no function

STP 17000TL-1Y (price before options):	×	xx	×	Demo device STP 8000TL-10, STP 10000TL-10,12000TL-10,15000TL-10,17000TL-10
	0			Typ: Sunny Tripower 10000TL
	1			Typ: Sunny Tripower 12000TL
Davies han as	2			Typ: Sunny Tripower 15000TL
Device type:	з			Typ: Sunny Tripower 17000TL
	4			Typ: Sunny Tripower 8000TL
Color of lid:		08		Gentian blue (additional colors on request)
Cabinet:			0	only enclosure with display, no function

STP 20000TL-1Y (price before options):	x	×	Demo device STP 20000TLEE-10, STP 15000TLEE-10
Davies honey	1		STP15000TLEE-10
Device type:	2		STP20000TLEE-10
Color of lid:		08	Gentian blue (additional colors on request)

×	xx	×	Demo device STP 5000TL-20, STP 6000TL-20, STP 7000TL-20, STP 8000TL-20, STP 9000TL-20
0			Typ: Sunny Tripower 5000TL
1			Typ: Sunny Tripower 6000TL
2			Typ: Sunny Tripower 7000TL
3			Typ: Sunny Tripower 8000TL
4			Typ: Sunny Tripower 9000TL
	08		Gentian blue (additional colors on request)
		0	only enclosure with display, no function
	0 1 2 3 4	0 1 2 3 4	0 1 2 3 4 08

Stand system

Stand system for Sunny Boy/Sunny Mini Central Demo



#### **Communication interfaces**

485PB-NR	RS485 interface type Piggy-Back as retrofit kit for: SB/SWR/WB 700 SB/SWR/WB 1100 (E) (LV) SB 1200 SB 1300TL-10/1600TL-10 SB/SWR/WB 1700 (E) SWR 2000 SB 2100TL SB/SWR/WB 2500/3000 SB/WB 2800i SB/WB 3300/3800 (-11) SB 3300TL/4200TL (HC) SB 5000TL (HC) (W)
485PB-SMC-NR	R\$485 interface type Piggy-Back as retrofit kit for: SMC/WB 4600A (-11) SMC/WB 5000/6000 (A) (A-11) SMC 7000HV (HV-11) SMC 6000TL/7000TL/8000TL SMC 9000TL-10/10000TL-10/11000TL-10 SMC 9000TLRP-10/10000TLRP-10/11000TLRP-10
DM-485CB-10	RS485 interface type data module as retrofit kit for: SB 3000TL-20/3600TL-20/4000TL-20/ 5000TL-20 SB 3000TL-21/3600TL-21/4000TL-21/5000TL-21 SB 2500TLST-21/3000TLST-21 STP 8000TL-10/10000TL-10/12000TL-10/ 15000TL-10/17000TL-10 STP 15000TLEE-10/20000TLEE-10

#### 485QM-10-NR

RS485 interface type Quick-Module incl. multi-function relay as retrofit kit for SB 2000HF-30/2500HF-30/3000HF-30



BTPBINV-NR (price before options):	xx SMA Bluetooth® interface typ Piggy-Back as upgrade kit for
Device type:	SB/WB 700         SB/WB 1100 (E) (LV)         SB 1200         SB 1200         SB 1300TL-10/1600TL-10         SB/WB 1700 (E)         SB 2100TL         SB/WB 2500/3000         SB/WB 2800i         SB/WB 3300/3800 (-11)         SB 3300TL/4200TL/5000TL (HC)         SMC/WB 4600A (-11)         SMC/WB 4600A (-11)         SMC/WB 5000/6000 (A) (A-11)         SMC 7000HV (-11)         SMC 7000HV (-11)         SMC 9000TL-10/11000TL-10         SMC 9000TL-10/11000TLRP-10
Documentation:	Au       Australia (Documentation: English)         Belgium (Documentation: German, Dutch, French)         CZ       Czech Republic (Documentation: Czech)         DE       Germany (Documentation: German)         ES       Spain (Documentation: French)         GB       Great Britain (Documentation: English)         GR       Greece (documentation: Greek)         IT       Italy (Documentation: Korean)         KK       Korea (Documentation: Korean)         NL       Netherlands (Documentation: Dutch)         PT       Portugal (Documentation: Portuguese)         USA (Documentation: English)

BTPB-EXTANT-NR (price before options):	x SMA Bluetooth® interface type	Piggy-Back incl. external antenna as retrofit kit for
	SB/WB 1100 (E) (LV) (IT)	
	WB 1100LV (IT)	
	SB/WB 1200 (IT)	
	SB 1300TL-10/1600TL-10	
	SB/WB 1700 (IT)	
	SB 2100TL	
	SB/WB 2500 (IT) SB 2500-KR	
	SB/WB 3000 (IT) SB 3000-KR	
Device type:		
	SB/WB 3300 (-11) (-IT)	
	SB/WB 3800 (-11) (-IT) SB 3300TL (HC) (-IT)	
	SMC/WB 4600A (-11)	
	SMC/WB 4000A (-11) SMC/WB 5000 (A) (A-11) (A-1	171
	SMC/WB 5000 (A) (A-11) (A-1 SMC/WB 6000 (A) (A-11) (A-1	
	SMC 7000HV (-11) (-IT)	11) (X-KK)
	SMC 6000TL/7000TL/8000TL	1 (17)
	SMC 9000TL-10/10000TL-10/	
	SMC 9000TLRP-10/10000TLR	
	U Australia (Documentation: Englis	
	E Belgium (Documentation: Germ	
	z Czech Republic (Documentation	
	Germany (Documentation: Gerr	
	s Spain (Documentation: Spanish	•
	R France (Documentation: French)	•
Documentation:	B Great Britain (Documentation: E	•
	R Greece (documentation: Greek	<b>o</b>
	T Italy (Documentation: Italian)	
	R Korea (Documentation: Korean)	
	IL Netherlands (Documentation: D	
	Portugal (Documentation: Portug	
	us USA (Documentation: English)	

ANTEXTKIT25-10	Antenna extension add-on kit for SMA Bluetooth® Piggy-Back Plus
SWDM-10	Webconnect interface type data module as retrofit kit for: SB 2500TLST-21/3000TLST-21 SB 3000TL-21/3600TL-21/4000TL-21/5000TL-21 STP 8000TL-10/10000TL-10/12000TL-10/ 15000TL-10/17000TL-10 STP 15000TLEE-10/20000TLEE-10
MFR01-10	Multi-function relay for retrofitting in PV inverters for SB 2500TLST-21/3000TL-21/4000TL-21/5000TL-21 STP 8000TL-10/10000TL-10/12000TL-10/ 15000TL-10/17000TL-10 STP 15000TLEE-10/20000TLEE-10
FANKIT01-10	Additional fan kit for SB 2500TLST-21, SB 3000TLST-21, SB 3000TL-21, SB 3600TL-21, SB 4000TL-21, SB 5000TL-21. For use of inverters in high ambient temperatures.
PWCMOD-10	Power control module for retrofitting of PV inverters SB 2500TLST-21/3000TLST-21 SB 3000TL-21/3600TL-21/4000TL-21/5000TL-21 STP 8000TL-10/10000TL-10/12000TL-10/ 15000TL-10/17000TL-10 STP 15000TLEE-10/20000TLEE-10
PWCBRD-10	Power control module for retrofitting of PV inverters STP 5000TL-20/6000TL-20/7000TL-20/8000TL-20/ 9000TL-20

#### Communication socket

SB-RS485	Plug (2 pc.)/socket combination for RS485 communication incl. Termination resistor (1 termination resistor per bus system) assembly into Sunny Boy inverter free of charge ex works
	Plug (2 pc.)/socket combination for RS485 communication incl. Termination resistor (1 termination resistor per bus system) upgrade kit as article SB-RS485 for assembly by the customer
Power Balancer	
PBL-YCABLE-10	Power Balancer connecting cable (2 x 2 m) with SMC 9000TL-10/10000TL-10/11000TL-10/9000TLRP-10/10000TLRP- 10/11000TLRP-10
PBL-SMC-10-NR	Refit set for the modification of a Sunny Mini Central with a SMA Power Balancer to a SMA Power Balancer plug system
DC Connection	
SUNCLIX-FC6-SET	SUNCLIX field connector for cross-sections from 2.5 to 6 mm <sup>2</sup> , Set (+/-) for 10 strings



# Grounding

ESHV-P-NR	Refit set for the positive connection to ground of the DC input for SB 700 SB 1100 (LV) SB 1200 SB 1700 SB 2800i SB 2500/3000 SB 3300/3800 (-11) SMC 4600A/5000A/6000A (-11) SMC 7000HV (-11)
ESHV-N-NR	Refit set for the negative connection to ground of the DC input for SB 700 SB 1100 (LV) SB 1200 SB 1700 SB 2800i SB 2500/3000 SB 3300/3800 (-11) SMC 4600A/5000A/6000A (-11) SMC 7000HV (-11)
PLUGIN-GRD-10-NR	SMA Plug-in Grounding as an upgrade kit (Stick) for the positive or negative connection to ground of the DC input for SB 2000HF-30/2500HF-30/3000HF-30
PVO-N-20	PV OFFSET BOX External device for automatic application of a reverse voltage at the PV generator. For regeneration of PV-panels affected by PID.

#### System Components

einstellungen:

GridGate-10 (price before options):	0	xx	Central grid and plant protection 3N $^{\sim}$ 230/400 V, with display, terminal for 2 relays
Netzparameter Länder- einstellungen:	I	DE	Default Setting VDE-AR-N 4105 (standard)
GridGate-11 (price before options):	0	xx	Central grid and plant protection 3N~ 230/400 V for plants in accordance with CEI 0-21 specifications (Italy), with display, connection for 2 relays, with 2 digital inputs

### Protection and fuse elements

FUSEKIT 8A-NR	Refit set with 5 pc. 8 A fuses incl. fuse protection for SMC 9000TL-10/10000TL-10/11000TL-10/9000TLRP-10/10000TLRP-10/11000TLRP-10
FUSEKIT 10A-NR	Refit set with 5 pc. 10 A fuses incl. fuse protection for SMC SMC 9000TL-10/10000TL-10/11000TL-10/9000TLRP-10/10000TLRP-10/11000TLRP-10
FUSEKIT 12A-NR	Refit set with 5 pc. 12 A fuses incl. fuse protection for SMC 9000TL-10/10000TL-10/11000TL-10/9000TLRP-10/10000TLRP-10/11000TLRP-10
FUSEKIT 16A-NR	Refit set with 5 pc. 16 A fuses incl. fuse protection for SMC 9000TL-10/10000TL-10/11000TL-10/9000TLRP-10/10000TLRP-10/11000TLRP-10
FUSEKIT 20A-NR	Refit set with 5 pc. 20 A fuses incl. fuse protection for SMC 9000TL-10/10000TL-10/11000TL-10/9000TLRP-10/10000TLRP-10/11000TLRP-10
DC_SPD_KIT1-10	Upgrade kit DC overvoltage protector (type II) for input A Fits for STP 8000TL-10/1000TL-10/12000TL-10/15000TL-10/17000TL-10
DC_SPD_KIT2-10	Upgrade kit DC overvoltage protector (type II) for input A and B Fits for STP 8000TL-10/1000TL-10/12000TL-10/15000TL-10/17000TL-10

#### Service Products

USBPBS

USB service interface with a 1,5 m cable and a USB port for a PC connection

Not applicable in SB 2000HF-30, SB 2500HF-30, SB 3000HF-30, SB 3000TL-20, SB 3600TL-20, SB 4000TL-20, SB 5000TL-20, SB 3000TL-21, SB 3600TL-21, SB 4000TL-21, SB 5000TL-21, SB 2500TLST-21; SB 3000TLST-21, Sunny Tripower

SMA Solar Technology AG



# Spare parts

#### Communication socket

SB-RS232-NR Plug/socket combination for RS232 communication upgrade kit as article SB-RS232 for assembly by the customer

SWR-SK

12 m data cable for RS232 interface (D-Sub socket 9-pin/ connector sleeves)

#### **Communication interfaces**

	Radio Piggy-Back for upgrading a Sunny Boy or Sunny Mini Central for communication with Sunny Beam, incl. Antenna, coax cable an metal PG fitting
	Installation in a SWR 1500 or SWR 2000 requires the SBEAMPB-ISO-NR. Please order accordingly.
	Not applicable in SB 2000HF-30, SB 2500HF-30, SB 3000HF-30, SB 3000TL-20, SB 3600TL-20, SB 4000TL-20, SB 5000TL-20, SB 3000TL-21, SB 3600TL-21, SB 4000TL-21, SB 5000TL-21, SB 2500TLST-21; SB 3000TLST-21, Sunny Tripower
BEAMPBU-NR	
	Radio Piggy-Back for upgrading a Sunny Boy or Sunny Mini Central for communication with Sunny Beam, incl. Antenna, coax cable an metal PG fitting. Australian version
	Not applicable in SB 2000HF-30, SB 2500HF-30, SB 3000HF-30, SB 3000TL-20, SB 3600TL-20, SB 4000TL-20, SB 5000TL-20, SB 3000TL-21, SB 3600TL-21, SB 4000TL-21, SB 5000TL-21, SB 2500TLST-21; SB 3000TLST-21, Sunny Tripower
Display Refitting Kit	
	For inverters shipped from 02/2005 onward:
	Please order SWR-Display-NR or SB-Display-NR for display retrofitting (see below)
SWR-DISPLAY-NR	Spare display board for Sunny Boy SWR inverters
SB-DISPLAY-NR	Spare display board for Sunny Boys of type SB and SMC



SWR-Display (price before options):	×	×	x	× Display lid with 2-line LCD		
	0			for SWR 700		
	1			for SWR 850		
	2			for SWR 850 E		
	3			for SWR 1100 E		
Device type:	4			for SWR 1500		
Device Type:	5			for SWR 2000		
	6			for SWR 2500		
	7			for SWR 3000		
	8			for SWR 1700		
	9			for SWR 1700 E		
		0		red		
Color of lid:		2		blue		
		3		yellow		
Default setting:			0	german		
Deraon sennig.			1	english		

SB-Display (price before options):	×	x	×	× Display lid with 2-line LCD				
	0			for SB 2100 TL				
	1			for SB 2500				
Device type:	2			for SB 3000				
	3			for SB 1300TL-10				
	4			for SB 1600TL-10				
		0		red				
Color of lid:		2		blue				
		3		yellow				
			0	german				
D. f. di			1	english				
Default setting:			2	spanish				
				french				

MS-Display (price before options):	x	x	Multi-String display lid with 2-line LCD				
	0		red				
Color of lid:	2		blue				
	3		yellow				
		0	german				
Default setting:		1	english				
Deldon seming:		2	spanish				
		3	french				

ESS-HANDLE	xx ESS handle replacement part f	or
	01 SB 1100/1200/1300TL-10/	1600TL-10/1700/2100TL/
	2500/3000	
	02 SB 3300/3800 (-11)	
	03 SB 3300TL/4200TL/5000TL I	HC
	04 SMC 4600A/5000A/6000A SMC 9000TLRP-10/10000TL	x (-11)/ SMC 6000TL/7000TL/8000TL/ SMC 7000HV (-11)/ SMC 9000TL-10/10000TL-10/11000TL-10/ RP-10/SMC 11000TLRP-10
Device type:	os SB 3000TL-20/3600TL-20/40	DOOTL-20/5000TL-20/ SB 3000TL-21/3600TL-21/4000TL-21/5000TL-21/ SB 2500TLST-21/3000TLST-21
	06 STP 8000TL-10/10000TL-10/	12000TL-10/15000TL-10/17000TL-10
	07 SB 2000HF-30/2500HF-30/3	3000HF-30
	08 STP 5000TL-20/6000TL-20/7	2000TL-20/8000TL-20/9000TL-20



When placing an order, please always indicate the serial number of the inverter.



# Grounding

KLKD-1

Spare fuses for grounding set PLUGIN-GRD-10-NR, 1 A, 600V, 10 pc.

# Miscellaneous

45-7202	Handle cover set, "right" and "left", as replacement parts for SB 3300/3800 (-11 SMC 4600A/5000A/6000A (-11) SMC 6000TL/7000TL/8000TL SMC 7000HV (-11) SMC 9000TL-10/10000TL-10/11000TL-10 SMC 9000TLRP-10/10000TLRP-10/11000TLRP-10 STP 5000TL-20/6000TL-20/7000TL-20/8000TL-20/9000TL-20
45-10899080	Handle cover set, "right" and "left", as replacement parts for STP 8000TL-10/10000TL-10/12000TL-10/15000TL-10/17000TL-10

STP 15000TLEE-10/20000TLEE-10



#### Varistors

SWR-TV 1	Set of thermally monitored varistors (2 pc.) for SWR 700/850
SWR-TV 2	Set of thermally monitored varistors (2 pc.) for SWR 850E SWR 1700
SWR-TV 3	Set of thermally monitored varistors (2 pc.) for SWR 1100E/1700E
SWR-TV 4	Set of thermally monitored varistors (2 pc.) for SWR 1500/2000/2500/3000
SB-TV 1	Set of thermally monitored varistors (2 pc.) for SB 700, incl. insertion tool SB-TVWZ
SB-TV 3	Set of thermally monitored varistors (2 pc.) for SB 1100/1200/1700 incl. insertion tool SB-TVWZ
SB-TV 4	Set of thermally monitored varistors (2 pc.) for SB 1300TL-10/1600TL-10 SB 2100TL SB 2500/3000 SB 2800i SB 3000TL-20 SB 3300/3800 (-11) SMC 4600A/5000A/6000A (-11) incl. insertion tool SB-TVWZ
MSWR-TV 5	Set of thermally monitored varistors (6 pc.) for SB 5000TL (W) incl. insertion tool SB-TVWZ
MSWR-TV 6	Set of thermally monitored varistors (4 pc.) for SB 4200TL SB 4200TL HC/5000TL HC, incl. insertion tool SB-TVWZ
MSWR-TV 7	Set of thermally monitored varistors (2 pc.) for SB 3300TL (HC) SB 2000HF-30/2500HF-30/3000HF-30 SMC 6000TL/7000TL/8000TL SMC 7000HV (-11) SMC 9000TL-10/10000TL-10/11000TL-10 SMC 9000TLRP-10/10000TLRP-10/11000TLRP-10 incl. insertion tool SB-TVWZ
MSWR-TV 8	Set of thermally monitored varistors (3 pc.) for SB 3000TL-20/3600TL-20/4000TL-20/5000TL-20 incl. insertion tool SB-TVWZ
MSWR-TV 9	Set of thermally monitored varistors (3 pc.) for SB 3000TL-21/3600TL-21/4000TL-21/5000TL-21 SB 2500TLST-21/3000TLST-21 incl. insertion tool SB-TVWZ



STP-TV9	Set of thermally monitored varistors (3 pc.) for STP 8000TL-10/10000TL-10/12000TL-10/15000TL-10/17000TL-10
	STP 15000TLEE-10/20000TLEE-10
STP-TV10	Set of thermally monitored varistors (4 pc.) for STP 5000TL-20/6000TL-20/7000TL-20/8000TL-20/9000TL-20
SB-TVWZ	Insertion tool for varistor sets of types SB-TV1, SB-TV3, SB-TV4, MSWR-TV5, MSWR-TV6, MWSWR-TV7, MSWR-TV8
STP-TVWZ	Insertion tool for varistor sets Typ STP-TV9, MSWR-TV9



# Lids for Sunny Boys / Sunny Mini Centrals / Sunny Tripower

INVERTERLID-01	Lid for SB 700 (U) SB 1100 (klein)
INVERTERLID-02	Lid for SB 1100 (groß) SB 1200/1700 SB 1300TL-10/1600TL-10 SB 2100TL SB 2500/3000
INVERTERLID-03	Lid for SB 3300/3800 (-11) SB 3000US/4000US SB 3800-US-10
INVERTERLID-04	Lid for SB 3300TL/4000TL/5000TL (HC) SB 5000TLW
INVERTERLID-05	Lid for SMC 5000/6000
INVERTERLID-06	Lid for SMC 4600A/5000A/6000A (-11) SMC 6000TL/7000TL/8000TL SMC 7000HV (-11) SMC 9000TL-10/10000TL-10/11000TL-10 SMC 9000TLRP-10/10000TLRP-10/110000TLRP-10 SB 5000US/6000US/7000US/8000US SB 8000TLUS-10/9000TLUS-10/10000TLUS-10
INVERTERLID-07	Lid for SB 2800i
INVERTERLID-08	Lid for SB 3000TL-20/3600TL-20/4000TL-20/5000TL-20
INVERTERLID-09	Lid for Connection area SB 3000TL-20/3600TL-20/4000TL-20/5000TL-20
INVERTERLID-10	Lid for SB 2000HF-30/2500HF-30/3000HF-30
INVERTERLID-11	Lid for
INVERTERLID-12	STP 8000TL-10/10000TL-10/12000TL-10/15000TL-10/17000TL-10 Lid for Connection area STP 8000TL-10/10000TL-10/12000TL-10/15000TL-10/17000TL-10 STP 15000TLEE-10/20000TLEE-10
INVERTERLID-13	Lid for SB 3000TL-21/3600TL-21/4000TL-21/5000TL-21 SB 2500TLST-21/3000TLST-21
INVERTERLID-14	Lid for Connection area SB 3000TL-21/3600TL-21/4000TL-21/5000TL-21 SB 2500TLST-21/3000TLST-21
INVERTERLID-15	Lid for STP 5000TL-20/6000TL-20/7000TL-20/8000TL-20/9000TL-20
INVERTERLID-16	ESS panel as replacement part for STP 5000TL-20/6000TL-20/7000TL-20/8000TL-20/9000TL-20

# **Backup Systems**

SUNNY BACKUP



# Sunny Backup 2200 (SBU 2200)

Valid from: as provide	d in c	onti	ract			
SBU 2200 (price before options):	×	x	x	0	x	Backup inverter Sunny Backup 2200, nominal AC power: 2.2 kW, battery voltage: 24 VDC, incl. external battery temperature sensor
Communication:	0					Without communication
	4					R\$485
User interface:		0				With SRC-20 user interface, SD card, connection cable
		1				No Sunny Remote Control (SRC-20) user interface
			0			With battery fuse (BATFUSE-A. 01) type NH00 with 125 A and 2 x 2 m connection lead (35 mm <sup>2</sup> ) between the fuse and the
Battery fuse:						SBU 2200
			1			No battery fuse (BATFUSE-A. 01)
					DE	German
Language:					EN	English
						Greek



NOTICE! The SBU 2200 can only be operated with an AS-Box

# Sunny Backup 5000 (SBU 5000)

Valid from: as provided	l in c	ont	ract	
SBU 5000 (price before options):	×	o	x	Backup inverter Sunny Backup 5000, nominal AC power: 5.0 kW, battery voltage: 48 VDC, incl. external battery temperature sensor
Communication:	0			Without communication
Commonication:	4			R\$485
			DE	German
Language:			EN	English
			GR	Greek



NOTICE! The SBU 5000 can only be operated with an AS-Box



# Sunny Backup Demo

SBU-2200Dummy	Sunny Backup 2200 Demo, no function
SBU-5000Dummy	Sunny Backup 5000 Demo, no function
Stand system	Stand system for Sunny Backup Demo

#### Battery

Valid from: as provided in contract

SBU-BAT.24-140 (price before options):	x		Sunny Backup battery for SBU 2200 (24 V, 142 Ah, 3,4 kWh),sealed, maintenance-free AGM battery,type power.com SB, 2 blocks with 12 V each
	_		
Battery connection:	0		Battery connection cable 2 x 2 m, 35 mm <sup>2</sup> with crimped cable shoes for connection of the battery with battery fuse
Rack:		0 1	Without rack With steel rack



The SBU-Bat24-140 battery should only be used in purely backup systems (systems for emergency power supply). Cycle-resistant batteries (e.g. OPzV batteries) should be used to increase self-consumption in conjunction with the Sunny Backup system.

#### Valid from: as provided in contract

SBU-BAT.48-140 (price before options):	×	x	0	Sunny Backup battery for SBU 5000 (48 V, 142 Ah 6.8 kWh),sealed, maintenance-free AGM battery, type power.com SB, 4 blocks with 12 V each
	1			Battery connection cable 2 x 3 m, 70 mm <sup>2</sup> ,double insulation, with crimped cable shoes
Battery connection:	2			Battery connection cable 2 x 6 m, 70 mm <sup>2</sup> ,double insulation, with crimped cable shoes
	3			Battery connection cable 2 x 9 m, 70 mm <sup>2</sup> ,double insulation, with crimped cable shoes
Rack:		0		Without rack
NUCK.		1		With steel rack



The SBU-Bat48-140 battery should only be used in purely backup systems (systems for emergency power supply). Cycle-resistant batteries (e.g. OPzV batteries) should be used to increase self-consumption in conjunction with the Sunny Backup system.



# Switching unit/automatic switch box for TT and TN grids

Valid from: as provided	d in cc	ontr	act		
AS-BOX-M-20 (price before options):	1	0	×	x	1-phase automatic switching unit AS-BOX M-20 for TT and TN grounding systems, consumer power 7.4 kW / 32 A, PV power 5.7 kW / 25 A, connection for 1 SBU 5000, PV array connection 7.4 kW / 32 A, incl. 1 x 5 m synchronization cable, incl. 1 x 5 m communication cable from SBU 5000 to AS-BOX
			DE		German
Documentation:			EN		English
			GR		Greek
V-h				0	Voltage: 220 V/ 230 V (187 V to 253 V)
Voltage range				1	Voltage: 230 V/ 240 V (195,5 V to 260 V)

Valid from: as provided	l in c	ont	ract		
AS-BOX-L-20 (price before options):	1	0	x	x	3-phase automatic switching unit AS-BOX L-20 for TT and TN grounding systems, consumer power 35 kW / 3 x 50 A, PV power 28 kW / 3 x 40 A, connection for 3 SBU 5000, PV array connection 28 kW / 3 x 40 A, incl. 1 x 5 m synchronization cable, incl. 3 x 5 m communication cable from SBU 5000 to AS-BOX
	_				
			DE		German
Documentation:			EN		English
			GR		Greek
Voltage range				0	Voltage: 220 V/ 230 V (187 V to 253 V)
voliage range				1	Voltage: 230 V/ 240 V (195,5 V to 260 V)



# Switching unit/automatic switch box for TN grids only

AS-BOX-S.1 (price before options):	0	o	1-phase automatic switching unit AS-BOX S.1 only for TN grounding systems, consumer power 5.8 kW / 25 A, PV power 4.6 kW / 20 A, connection for 1 SBU 2200, incl. 2 x 5 m communication cable from SBU 2200 to AS-BOX-S
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SMA Solar Technology AG



Sunny Backup Systems



#### Sunny Backup Systems for use in TT and TN grids

A typical Sunny Backup System M for TT and TN grids is made up of the following components:

1 x Battery inverter Sunny Backup 5000,

Order code example: SBU 5000:00DE

1 x Switching unit AS-Box M-20 for TT and TN grounding systems (with PV array connection),

Order code example: AS-Box M-20: 10DE0

1 x Sunny Backup battery incl. battery connection cable,

order code example: SBU-BAT48-140:100

The total price for system M as specified above for TT and TN grids is



The order codes given above are only examples. The ultimate order code will be specified via the configuration of the individual products (e.g. Sunny Backup 5000 or AS box-M-20)

A typical Sunny Backup System L for TT and TN grids is made up of the following components:

3 x Battery inverter Sunny Backup 5000, Order code example: SBU 5000:00DE 1 x Switching unit AS-Box L-20 for TT and TN grounding systems (with PV array connection), Order code example: AS-Box L-20: 10DE0 2 x Sunny Backup battery incl. battery connection cable, order code example: SBU-BAT48-140:100 1 x DC distributor SBU-CON.33 incl. DC cable, Order code example: SBU-CON.33: 20

The total price for system L as specified above for TT and TN grids is



The order codes given above are only examples. The ultimate order code will be specified via the configuration of the individual products (e.g. Sunny Backup 5000 or AS box L-20)

SMA Solar Technology AG



Sunny Backup Accessories



# Sunny Backup Accessories

Valid from: as provided in contract

SBU-MeterBox (price before options):	x	0	Meterbox for Sunny Backup, interface for the reading out of eHZ meters, 1 x 3 m communication cable, plug-in power supply
Meter readout head:	0		With 2 x readout heads for D0 interface with 0.5 m cable, adaptor for top-hat rail, 2 x 1.5 m communication cable
	1		Without meter readout heads

# Valid from: as provided in contract

SBU-CON.33 (price before options):	x	o	SBU-CON.33, Sunny Backup DC distribution board for the connection of up to 3 Sunny Backup batteries and up to 3 x SBU 5000
	0		No connection cable
Connection:	1		Connection cable 2 x 3 m, 70mm², double insulation, with crimped cable shoes for connection of 1 x SBU 5000
Connection:	2		Connection capie 2 x 3 m, / Onim-, double insulation, with criticiped cable snoes for connection of 1 x 3b0 3000
	2		Connection cable 6 x 3 m, 70mm², double insulation, with crimped cable shoes for connection of 3 x SBU 5000

# BATFUSE-A.01

BATFUSE-A.01 (price before options):	×	xx	2-pole NH00 battery fuse for 1 Sunny Island or Sunny Backup, 2 DC inputs (2 x battery or 1 x battery and 1 x Sunny Island Charger)
Fuse value:	0		2 x 125 A fuse plug for Sunny Island 2224, Sunny Backup 2200 with 2 spare fuses
S-1		01	German, English, Spanish
Dokumentation:		02	French, Italian, Greek

SRC-20	Control unit Sunny Remote Control for SBU 2200,incl. 128 MB SD card and display cable						
МС-РВ							
	Multicluster Piggy-Back for SBU 5000,CAN and RS485-Bus on one Piggy-Back,incl. 2 x 5 m CAN communication cable						
BAT-TEMP-SENSOR	Spare battery temperature sensor type KTY with 10 m connection cable, for Sunny Island and Sunny Backup						
BTPBOG-10 (price before options):	SMA Bluetooth® interface typ Piggy-Back as upgrade kit for						
<b>D</b> · · ·	CDU 0000						
Device type:	SBU 2200						
Documentation:	Germany (Documentation: German)						



gy AG

#### Sunny Central 900CP XT (SC-900CP-10-BS)

Valid from: as provid	
SC-900CP-10-BS (price before options):	<ul> <li>0</li> <li>0</li> <li>0</li> <li>1</li> <li>0</li> <li>x</li> <li>xx</li> <li>xx</li></ul>
specific price 1)	
Communication	2 SC-COM + LWL
interface	3 SC-COM
Language:	DE       DE       German         EN       English         ES       Spanish         KR       Korean         IT       Italian         FR       French         CN       Chinese         CZ       Czech         GR       Greek         PT       Portuguese         NL       Dutch         RO       Romanian         JP       Japanese
Country of destination:	DE       DE       Germany         EN       Fngland         ES       Spain         KR       Korea         IT       Italy         FR       France         CN       China         CZ       Czech/Czech Republic         GR       Greek/Greece         PT       Portuguese/Portugal         NL       Dutch/Netherlands         RO       Romanian/Romania         JP       Japanese/Japan         US       Standard 50 Hz         Standard 50 Hz

Comments 1) Can differ depending on options.

#### Sunny Central 850CP XT (SC-850CP-10-BS)

Valid from: as provided ir	n con	trac	t											
SC-850CP-10-BS (price before options):	• •	ο	o	. 1	c	× (	x x3	к жэ	к 2	2	8	0	0	Self-commutated 850 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, standard DC input voltage range up to 1000 V, system- integrated all-pole DC main distribution with up to 9 fuse inputs, insulation monitoring, display, power- operated DC switch-disconnector, AC contactor and AC circuit breaker, string current monitoring, overvoltage protection for the DC side, comprehensive grid management functions (incl. LVRT). Connection for external electricity supply. Planned for connection to an external transformer.
specific price 1)														
Communication interface						2								SC-COM + LWL SC-COM
Language:							DI EN ES KI FF CI CI GI GI N RC JF	N S R T Z R R T L						German English Spanish Korean Italian French Chinese Czech Greek Portuguese Dutch Romanian Japanese
Country of destination:								DI EN EN KI IT FFF CC CC GI O CC GI PT N RC E SI I E SI 6	N S R R T R R Z R R T T L D D S S H					England Spain Korea Italy France China Czech/Czech Republic Greek/Czecc Republic Greek/Greece Portuguese/Portugal Dutch/Netherlands Romanian/Romania Japanese/Japan USA Standard 50 Hz Standard 60 Hz

Comments 1) Can differ depending on options.

# Sunny Central 800CP XT (SC-800CP-10-BS)

/alid from: as provide	
SC-800CP-10-BS Basispreis):	<ul> <li>0</li> <li>0</li> <li>0</li> <li>1</li> <li>0</li> <li>x</li> <li>xx</li> <li>xx</li></ul>
specific price 1)	
Communication nterface	2 SC-COM + LWL 3 SC-COM
Language:	DE       DE       German         EN       English         ES       Spanish         KR       Korean         IT       Italian         FR       French         CN       Chinese         CZ       Czech         GR       Greek         PT       Portuguese         NL       Dutch         RO       Romanian         Japanese       Japanese
Country of destination:	DE     DE     Germany       EN     England       Spain     Korea       IT     Italy       FR     France       CN     China       CZ     Czech/Czech Republic       GR     Greek/Greece       PT     Portuguese/Portugal       NL     Dutch/Netherlands       RO     Romanian/Romania       JP     Japanese/Japan       USA     Standard 50 Hz       Standard 50 Hz

# Sunny Central 760CP XT (SC-760CP-10-BS)

Valid from: as provide SC-760CP-10-BS (Basispreis):	In contract          0       0       0       1       0       x       xx       xx       2       2       2       0       0       Self-commutated 760 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, standard DC input voltage range up to 1000 V, syster integrated all-pole DC main distribution with up to 9 fuse inputs, insulation monitoring, display, power-operated DC switch-disconnector, AC contactor and AC circuit breaker, string current monitoring, overvoltage protection for the DC side, comprehensive grid management functions (incl. LVRT). Connection for external electricity supply. Planned for connection to an external transformer.
specific price 1) Communication interface	SC-COM + LWL SC-COM SC-COM
.anguage:	DE     DE     German       EN     English       ES     Spanish       KR     Korean       IT     Italian       FR     French       CN     Chinese       CZ     Czech       GR     Greek       PT     Portuguese       NL     Dutch       RO     Romanian       JP     Japanese
Country of destination:	DE     DE     Germany       EN     England       ES     Spain       KR     Korea       IT     Italy       FR     France       CN     China       CZ     Czech/Czech Republic       GR     Greek/Greece       PT     Portuguese/Portugal       NL     Dutch/Netherlands       RO     Romanian/Romania       JP     Japanese/Japan       US     USA       SH     Standard 50 Hz

# Sunny Central 720CP XT (SC-720CP-10-BS)

/alid from: as provide	contract
5C-720CP-10-BS Basispreis):	0 0 1 1 0 x xx xx 2 2 4 0 Self-commutated 720 kVA converter suitable for outdoor use with IP54-protected enclosure, connectinarea IP 43, innovative cooling concept OptiCool, standard DC input voltage range up to 1000 V, sy integrated all-pole DC main distribution with up to 9 fuse inputs, insulation monitoring, display, power operated DC switch-disconnector, AC contactor and AC circuit breaker, string current monitoring, overvoltage protection for the DC side, comprehensive grid management functions (incl. LVRT). Connection for external electricity supply. Planned for connection to an external transformer.
pecific price 1)	
Communication nterface	2 SC-COM + 1WL 3 SC-COM
.anguage:	DE     German       EN     English       ES     Spanish       KR     Korean       IT     Italian       FR     French       CN     Chinese       CZ     Czech       GR     Greek       PT     Portuguese       NL     Dutch       RO     Romanian       JP     Japanese
Country of Jestination:	DE     DE     Germany       EN     England       ES     Spain       KR     Korea       IT     Italy       FR     France       CN     China       CZ     Czech/Czech Republic       GR     Greek/Greece       PT     Portugese/Portugal       NL     Dutch/Netherlands       RO     Romanian/Romania       JP     Japanese/Japan       USA     Standard 50 Hz       Standard 40 Hz

# Sunny Central 630CP XT (SC-630CP-10-BS)

/alid from: as provid	ed in contract
5C-630CP-10-BS Basispreis):	0       0       0       1       0       x       xx       xx       2       2       5       0       0       Self-commutated 630 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, standard DC input voltage range up to 1000 V, syster integrated all-pole DC main distribution with up to 9 fuse inputs, insulation monitoring, display, power-operated DC switch-disconnector, AC contactor and AC circuit breaker, string current monitoring, overvoltage protection for the DC side, comprehensive grid management functions (incl. LVRT). Connection for external electricity supply. Planned for connection to an external transformer.
pecific price 1)	
Communication nterface	2 3 SC-COM + LWL SC-COM
	DE German EN English
.anguage:	Image: Signal
Country of destination:	DE       DE       Germany         EN       England         ES       Spain         KR       Korea         IT       Italy         FR       France         CN       China         CZ       Czech/Czech Republic         GR       Greek/Greece         PT       Portugues/Portugal         NL       Dutch/Netherlands         RO       Romanian/Romania         JP       Japanese/Japan         US       USA         SH       Standard 50 Hz

# Sunny Central 500CP XT (SC-500CP-10-BS)

/alid from: as provided	Iract
SC-500CP-10-BS Basispreis):	<ul> <li>0</li> <li>1</li> <li>0</li> <li>x</li> <li>xx</li> <li>x</li> <li>x</li></ul>
pecific price 1)	
Communication	2 SC-COM + LWL
nterface	3 SC-COM
.anguage:	DE       German         EN       English         ES       Spanish         KR       Korean         IT       Italian         FR       French         CN       Chinese         CZ       Czech         GR       Greek         PT       Portuguese         NL       Dutch         RO       Romain         JP       Japanese
Country of destination:	DE     Germany       EN     England       ES     Spain       KR     Korea       IT     Italy       FR     France       CN     China       CZ     Czech/Czech Republic       GR     Greek/Greece       PT     Portuguese/Portugal       NL     Dutch/Netherlands       RO     Romanian/Romania       JP     Japanese/Japan       US     USA       SH     Standard 50 Hz

# Sunny Central 900CP XT (SC-900CP-10)

Valid from: as provided	in co	ntro	act												
are provided				Ţ								Ţ			
SC-900CP-10 (price before options):	x	×	×	x	×	0	×	xx	xx	×	×	×	×	x	Self-commutated 900 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, DC input voltage up to 1000V as standard, system- integrated DC main distribution with up to 9 inputs, motor-driven DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection on the DC side, comprehensive power distribution grid management functions (incl. LVRT). Connection for external electricity supply. Intended for connection to an external transformer.
<i>t</i>														_	
specific price 1) Max.		-	-	-	_								_		
DC-Voltage:	0														1000 V
		0		-1											Fuses on all poles
		1													Fuses in plus, isolating blades in minus
															n osca ni pros, isotaling blades in minos
DC connection:		2													Fuses in minus, isolating blades in plus
		4													Bus bar
		5													For Optiprotect
		1	0	┫								Ţ			Without
			1												200 A (9 per pole)
DC fuses:			2												250 A (9 per pole)
DC fuses:			3 4												315 A (7 per pole) 400 A (6 per pole)
			5												125 A (9 pcs. per pole)
			6												160 A (9 pcs. per pole)
				0											Without
				1											GFDI minus grounding
				2 3											Remote GFDI minus grounding GFDI plus grounding
Grounding:				4											Remote GFDI plus grounding
J. J. J.				5											Soft grounding plus
				6											Soft grounding minus
				7											Remote soft grounding plus
	_	+	_	8	0					-		+			Remote soft grounding minus none
Insulation					1										Yes
monitoring:					2										Yes, with grounding
Communication							2								SC-COM + LWL
interface		-	_	_			3					-			SC-COM
									DE EN						German/Germany English/England
									ES						Spanish/Spain
									KR						Korea
									IT						Italian/Italy
Language:/Country									FR CN						French/France Chinese/China
of destination:									CN CZ						Chinese/China Czech/Czech Republic
									GR						Greek/Greece
									PT						Portuguese/Portugal
									NL						Dutch/Netherlands Romanian/Romania
									RO JP						Komanian/ Komania Japanese/Japan
									US						USA
									5H						Standard 50 Hz
		4						L	6Н			ļ			Standard 60 Hz
AC switch:										2					Circuit breaker Without
		┥		┥				⊢		_	0	╡			none
										_	1				yes, 2 hubs
String current											2				yes, 3 hubs
monitoring:										_	3 4				Optiprotect 32/16 Optiprotect 16/16
											4 5				Optiprotect 24/12
											6				Optiprotect 12/12
AC voltage:												9			405 V (900 kVA)
Cabinet layout:		I		ſ									0		Standard
,		+		_		_		┣_		-		+	2		For station installation
Additional functions:														0 1	none PID
, comonarionenolis.														2	IEEE 1547
	-	_						•			-			-	

# Sunny Central 850CP XT (SC-850CP-10)

Valid from: as provided	in coi	ntra	ct											
SC-850CP-10 (price before options):	X 2	кж	×	×	0	) x	. xx	. **	×	x	x	x	x	Self-commutated 850 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, DC input voltage up to 1000V as standard, system- integrated DC main distribution with up to 9 inputs, motor-driven DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection on the DC side, comprehensive power distribution grid management functions (incl. LVRT). Connection for external electricity supply. Intended for connection to an external transformer.
specific price 1)	_	-	-	-	-	-	-	-						
Max.	0		T	T	r	T	E		Г					1000.1/
DC-Voltage:					L		L		L		L		L	1000 V
	1	0												Fuses on all poles Fuses in plus, isolating blades in minus
DC connection:	1	2												Fuses in minus, isolating blades in plus
		4												Bus bar
	4													For Optiprotect
DC fuses:		0 1 2 3 4 5 6	: : :											Without 200 A (9 per pole) 250 A (9 per pole) 315 A (7 per pole) 400 A (6 per pole) 125 A (9 pcs. per pole) 160 A (9 pcs. per pole)
Grounding:			0 1 2 3 4 5 6 7 8	2										Without GFDI minus grounding Remote GFDI minus grounding GFDI plus grounding Soft grounding plus Soft grounding minus Remote soft grounding plus Remote soft grounding minus
Insulation				0										none Yes
monitoring:				2										Yes, with grounding
Communication						2								SC-COM + LWL
interface Language:/Country of destination:						3	DE EN ES KF IT FR CN C2 GF PT NI RC	I DE I EN I EN I ES I KR I T I FR CN I CZ CZ CZ GR I CN I CZ S GR I US S H I OS S H I OS						SC-COM German/Germany English/England Spanish/Spain Korean/Korea Italian/Italy French/France Chinese/China Czech/Czech Republic Greek/Greece Portuguese/Portugal Dutch/Netherlands Romanian/Romania Japanese/Japan USA Standard 50 Hz Standard 60 Hz
AC switch:			ľ		1		1		2 3					Circuit breaker Without
String current monitoring:									3	0 1 2 3 4 5 6				none yes, 2 hubs yes, 3 hubs Optiprotect 32/16 Optiprotect 16/16 Optiprotect 24/12 Optiprotect 12/12
AC voltage:		T	Ļ	T	F	T	Γ		Γ		8			386 V (850 kVA)
Cabinet layout:									L			0 2		Standard For station installation
Additional functions:													0 1 2	none PID IEEE 1547

# Sunny Central 800CP XT (SC-800CP-10)

Valid from: as provided i	n cor	ntrac	:t		r –		_						
C-800CP-10 price before options):	× ×	. x	×	x	o	×	xx	xx	x )	c x	×	×	Self-commutated 800 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, DC input voltage up to 1000V as standard, system- integrated DC main distribution with up to 9 inputs, motor-driven DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection on the DC side, comprehensive power distribution grid management functions (incl. LVRT). Connection for external electricity supply. Intended for connection to an external transformer.
pecific price 1)	_	+	-	-				-	-		-	⊢	
Max.												F	
DC-Voltage:	0		1							1			1000 V
	c									T		Γ	Fuses on all poles
	1		1										Fuses in plus, isolating blades in minus
			1							1			
DC connection:	2												Fuses in minus, isolating blades in plus
	4												Bus bar
	5												For Optiprotect
		0											Without
		1											200 A (9 per pole)
DC fuses:		2											250 A (9 per pole)
C ruses:		3 4											315 A (7 per pole) 400 A (6 per pole)
		5											125 A (9 pcs. per pole)
		6											160 A (9 pcs. per pole)
			0										Without
			1										GFDI minus grounding
			2										Remote GFDI minus grounding GFDI plus grounding
Grounding:			4										Remote GFDI plus grounding
J. J. J.			5										Soft grounding plus
			6										Soft grounding minus
			7										Remote soft grounding plus
	-	+	8	0	_			_	+		-	-	Remote soft grounding minus none
nsulation				1									Yes
nonitoring:				2									Yes, with grounding
Communication						2							SC-COM + LWL
nterface	_	_	-			3		_			_		SC-COM
							DE EN	DE					German/Germany English/England
							ES						Spanish/Spain
							KR						Korean/Korea
							ΙТ						Italian/Italy
1-							FR						French/France
anguage:/Country f destination:							CN CZ						Chinese/China Czech/Czech Republic
desinitation.							GR						Greek/Greece
							PT						Portuguese/Portugal
							NL						Dutch/Netherlands
			1				RO						Romanian/Romania
							JP	JP US					Japanese/Japan USA
			1					5H		1			Standard 50 Hz
					L			6H					Standard 60 Hz
C switch:									2				Circuit breaker
			H		<u> </u>		Ц		3				Without
			1						1				none yes, 2 hubs
			1							2			yes, 2 hubs
itring current			1						3				Optiprotect 32/16
nonitoring:									4				Optiprotect 16/16
										5			Optiprotect 24/12
			L		L		Ц		(	5		L	Optiprotect 12/12
<u> </u>			1							0		1	360 V (800 kVA)
C voltage:											^		Standard
AC voltage: Cabinet layout:											02		Standard For station installation
											0 2	0	For station installation
												0	For station installation

# Sunny Central 760CP XT (SC-760CP-10)

Valid from: as provided i	n cor	ntrac	t										
SC-760CP-10 (price before options):	× ×	. x	×	×	o	x	xx	xx	× ,	< x	×	×	Self-commutated 760 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, DC input voltage up to 1000V as standard, system- integrated DC main distribution with up to 9 inputs, motor-driven DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection on the DC side, comprehensive power distribution grid management functions (incl. LVRT). Connection for external electricity supply. Intended for connection to an external transformer.
specific price 1)	_	-	┝					_	+	+	-	┝	
Max.	0	T	Г							T			1000 V
DC-Voltage:			-							_			
DC connection:	0 1 2												Fuses on all poles Fuses in plus, isolating blades in minus Fuses in minus, isolating blades in plus
	4	L.											Bus bar
DC fuses:	5	0 1 2 3 4 5 6											For Optiprotect Without 200 A (9 per pole) 250 A (9 per pole) 315 A (7 per pole) 400 A (6 per pole) 125 A (9 pcs. per pole) 160 A (9 pcs. per pole)
Grounding:			0 1 2 3 4 5 6 7 8										Without GFDI minus grounding Remote GFDI minus grounding GFDI plus grounding Remote GFDI plus grounding Soft grounding plus Soft grounding minus Remote soft grounding minus
Insulation				0									none
monitoring:				1									Yes Yes, with grounding
Communication		t	t	2	-	2				1			SC-COM + LWL
interface Language:/Country of destination:						3	DE EN ES KR IT FR CZ GR PT NL RO JP	EN ES KR IT FR CN CZ GR PT NL RO JP US 5H 6H	2				SC-COM German/Germany English/England Spanish/Spain Korean/Korea Italian/Italy French/France Chines/China Czech/Czech Republic Greek/Greece Portugues/Portugal Dutch/Netherlands Romanian/Romania Japanese/Japan USA Standard 50 Hz Standard 50 Hz
AC switch:									2 3				Circuit breaker Without
String current monitoring:										) 1 2 3 4 5 5			none yes, 2 hubs yes, 3 hubs Optiprotect 32/16 Optiprotect 16/16 Optiprotect 24/12 Optiprotect 12/12
AC voltage:										2			342 V (760 kVA)
Cabinet layout:											0 2		Standard For station installation
Additional functions:												0 1 2	none PID

# Sunny Central 720CP XT (SC-720CP-10)

Valid from: as provided i	n cor	itrac	t											
SC-720CP-10 (price before options):	××	: x	×	x	o	x	xx	xx	x	×	с х	c ::	×	Self-commutated 720 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, DC input voltage up to 1000V as standard, system- integrated DC main distribution with up to 9 inputs, motor-driven DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection on the DC side, comprehensive power distribution grid management functions (incl. LVRT). Connection for external electricity supply. Intended for connection to an external transformer.
specific price 1)		-		_		_			-	-	÷	+		
Max.	0											ľ		1000 V
DC-Voltage:		_	_				_		_	_	_			
DC connection:	0 1 2 4 5													Fuses on all poles Fuses in plus, isolating blades in minus Fuses in minus, isolating blades in plus Bus bar For Optiprotect
DC fuses:		0 1 2 3 4 5 6												Without 200 A (9 per pole) 250 A (9 per pole) 315 A (7 per pole) 400 A (6 per pole) 125 A (9 pcs. per pole) 160 A (9 pcs. per pole)
Grounding:			0 1 2 3 4 5 6 7 8											Without GFDI minus grounding Remote GFDI minus grounding GFDI plus grounding Soft grounding plus Soft grounding minus Remote soft grounding plus Remote soft grounding minus
Insulation				0										none
monitoring:				1 2										Yes Yes, with grounding
Communication interface						2 3			1					SC-COM + LWL SC-COM
Language:/Country of destination:							EN ES KR IT FR CN CZ GR PT NL RO	DE EN ES KR IT FR CZ GR PT NL RO JP US 5H 6H						German/Germany English/England Spanish/Spain Korean/Korea Italian/Italy French/France Chinese/China Czech/Czech Republic Greek/Creece Portuguese/Portugal Dutch/Netherlands Romanian/Romania Japanese/Japan USA Standard 50 Hz Standard 50 Hz
AC switch:			Γ				Γ		2 3	T	Γ	Ţ		Circuit breaker Without
String current monitoring:										0 1 2 3 4 5 6				none yes, 2 hubs optiprotet 32/16 Optiprotect 16/16 Optiprotect 24/12 Optiprotect 12/12
AC voltage:	T	F	F				Γ		7	ŀ	•	T	_	324 V (720 kVA)
Cabinet layout:			L								0 2	2		Standard For station installation
Additional functions:													1	none PID IEEE 1547

# Sunny Central 630CP XT (SC-630CP-10)

Valid from: as provided	in co	ntro	act												
SC-630CP-10 (price before options):	×	×	×	x	×	0	×	xx	xx	x	×	×	×	x	Self-commutated 630 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, DC input voltage up to 1000V as standard, system- integrated DC main distribution with up to 9 inputs, motor-driven DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection on the DC side, comprehensive power distribution grid management functions (incl. LVRT). Connection for external electricity supply. Intended for connection to an external transformer.
specific price 1)	_		-			_					-		_		
Max.	o	T													1000 V
DC-Voltage:				_							_	_			
DC connection:		0 1 2													Fuses on all poles Fuses in plus, isolating blades in minus Fuses in minus, isolating blades in plus
		4													Bus bar
		5													For Optiprotect
DC fuses:			0 1 2 3 4 5 6												Without 200 A (9 per pole) 250 A (9 per pole) 315 A (7 per pole) 400 A (6 per pole) 125 A (9 pcs. per pole) 160 A (9 pcs. per pole)
Grounding:				0 1 2 3 4 5 6 7 8											Without GFDI minus grounding Remote GFDI minus grounding GFDI plus grounding Remote GFDI plus grounding Soft grounding plus Soft grounding minus Remote soft grounding plus Remote soft grounding minus
Insulation					0										none
monitoring:					1 2										Yes Yes, with grounding
Communication		1			_		2								SC-COM + LWL
interface Language:/Country of destination:	_						3	EN ES KR IT FR CN CZ GR PT NL RO	DE ES KIT FROZOR PILO PUSH 6H	2					SC-COM German/Germany English/England Spanish/Spain Korean/Korea Italian/Italy French/France Chinese/China Czech/Czech Republic Greek/Greece Portuguese/Portugal Dutch/Netherlands Romanian/Romania Japanese/Japan USA Standard 50 Hz Standard 50 Hz
AC switch:										2 3					Circuit breaker Without
String current monitoring:										-	0 1 2 3 4 5 6				none yes, 2 hubs yes, 3 hubs Optiprotect 32/16 Optiprotect 16/16 Optiprotect 24/12 Optiprotect 12/12
AC voltage:											_	5			315 V
Cabinet layout:													0 2		Standard For station installation
Additional functions:													2	0 1 2	none PID IEEE 1547

# Sunny Central 500CP XT (SC-500CP-10)

Valid from: as provided	in co	ntra	ict											
SC-500CP-10 (price before options):	× :	×	××	( x		x 0	xx	xx	x	×	×	×	x	Self-commutated 500 kVA converter suitable for outdoor use with IP54-protected enclosure, connection area IP 43, innovative cooling concept OptiCool, DC input voltage up to 1000V as standard, system- integrated DC main distribution with up to 9 inputs, motor-driven DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection on the DC side, comprehensive power distribution grid management functions (incl. LVRT). Connection for external electricity supply. Intended for connection to an external transformer.
specific price 1)	_		-	-		_		-		_	-	_	_	
Max.	0			T	Ľ		r	T			T			1000 V
DC-Voltage:		0	-	-		_	-	_			-	_		Fuses on all poles
		1												
DCti														Fuses in plus, isolating blades in minus
DC connection:		2												Fuses in minus, isolating blades in plus
		4												Bus bar
	-	5	0		h		r							For Optiprotect Without
			1											200 A (9 per pole)
DC fuses:			2 3											250 A (9 per pole) 315 A (7 per pole)
			4											400 A (6 per pole)
			5 6											125 A (9 pcs. per pole) 160 A (9 pcs. per pole)
			C	>	E						1			Without
			1											GFDI minus grounding Remote GFDI minus grounding
			3											GFDI plus grounding
Grounding:			4											Remote GFDI plus grounding Soft grounding plus
			6											Soft grounding minus
			7											Remote soft grounding plus
Insulation			8	0	1									Remote soft grounding minus
monitoring:				1										Yes
Communication			-	2	:	2		F		_		_		Yes, with grounding SC-COM + LWL
interface						3	_					_		sc.coм
								DE EN						German/Germany English/England
							ES	ES						Spanish/Spain
								KR IT						Korean/Korea Italian/Italy
								FR						French/France
Language:/Country of destination:								CN CZ						Chinese/China Czech/Czech Republic
or desimation.								GR						Greek/Greece
								PT NL						Portuguese/Portugal Dutch/Netherlands
								RO						Romanian/Romania
								JP US						Japanese/Japan USA
							1	5H						Standard 50 Hz
		4			L		L	6Н						Standard 60 Hz
AC switch:					1		1		2 3					Circuit breaker Without
		T			Γ		Γ			0	1			none
String current							1			1 2				yes, 2 hubs yes, 3 hubs
String current monitoring:					1		1			3				Optiprotect 32/16
-							1			4 5				Optiprotect 16/16 Optiprotect 24/12
							L			6				Optiprotect 12/12
AC voltage:							H				6	0		270 V Standard
Cabinet layout:							L					2		For station installation
Additional functions:							1						0 1	none PID
														IEEE 1547



**Stations and Transformers** 

# Transformer Compact Station for SC-CP-Inverter (TCS 1800SC-DE)

Valid from: as provided	in (	con	trac	:t											
TCS 1800SC-DE (price before options):	6	DE	×	×	: >	ĸ	×	x	x	×	K I	0	0 :		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
					T								ľ		
Cabinet:			0												Concrete compact station Steel compact station
Voltage level:				0											20 kV
Medium voltage transformer:					1	1									Transformer with iron core
LV power switch:							0 1								Without With
Internal power supply:								0 1							Without With
Communit:									0						Without With
Medium voltage switchgear:										D 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:											0 1				Standard Protection against chemically active substances
Language:														DE EN ES IT CZ FR BG	German English Spanish Italian Czech French Bulgarian Greek

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-DE)

Valid from: as provided i	in (	cor	ntrc	ict											
TCS 1600SC-DE (price before options):	5	D	E:	×	x	x	×	x	×	د <u>،</u>	( x	o	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
	_	h	t				t			T		Г			
Cabinet:				0 1											Concrete compact station Steel compact station
Voltage level:		F	T		0				Ľ						20 kV
Medium voltage						1			Г						Transformer with iron core
transformer:						2									Transformer with amorphous core
LV power switch:		L					0								Without With
Internal power			T					0							Without
supply:								1							With
Communit:		L							0						Without With
A			T							c	)				Without
Medium voltage switchgear:		Ĺ								1					String connection (2-field)
sinningedi.		L								2	_				Ring connection (3-field)
Surrounding area:		Ĺ									0				Standard
		L			_	-	H				1		—	DC	Protection against chemically active substances German
		1													German English
															Spanish
Language:															Italian
Lungouge.															Czech
		1													French
															Bulgarian
		1												GR	Greek

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-DE)

Valid from: as provided	in co	ntrac	ct										
TCS 1250SC-DE (price before options):	4 D	E x	×	×	: x	×	×	x	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0			Γ		Γ						Concrete compact station
		1	-										Steel compact station
Voltage level:			0	)									20 kV
Medium voltage				1									Transformer with iron core
transformer:				2									Transformer with amorphous core
LV power switch:					0								Without
· ·					1		_						With
Internal power						0	Ĺ						Without
supply:						1							With
Communit:							0						Without
commonia.							1						With
Medium voltage			Г		Г		Γ	0					Without
							Ĺ	1					String connection (2-field)
switchgear:								2					Ring connection (3-field)
c									0				Standard
Surrounding area:									1				Protection against chemically active substances
Language:			1				1						German
Lunguage:												EN	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-DE)

Valid from: as provided	in co	ntrac	ct										
TCS 1000SC-DE (price before options):	3 0	PE x	x	×	×	x	×	x	x	0	o		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0			[ ]				I		I		Concrete compact station
		1											Steel compact station
Voltage level:			0	•									20 kV
Medium voltage				1									Transformer with iron core
transformer:				2									Transformer with amorphous core
LV power switch:					0								Without
					1	_							With
Internal power						0							Without
supply:						1							With
Communit:							0		Т		Τ		Without
							1						With
Madium valera-								0					Without
Medium voltage			Ĺ		1			1					String connection (2-field)
switchgear:								2					Ring connection (3-field)
c					L				0				Standard
Surrounding area:									1				Protection against chemically active substances
Language:									Τ				German
Lunguuge:												EN	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 900SC-DE)

Valid from: as provided	in	con	trac	t											
TCS 900SC-DE (price before options):	7	DI	×		c :	×	x	×	x	×	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
				T	T						T				
Cabinet:			0												Concrete compact station Steel compact station
Voltage level:				0	>										20 kV
Medium voltage transformer:						1									Transformer with iron core
LV power switch:							0 1								Without With
Internal power supply:								0							Without With
Communit:		Γ		ľ	I		1	-	0		1				Without With
Medium voltage switchgear:					I					0 1 2	1				Without String connection (2-field) Ring connection (3-field)
Surrounding area:											0 1				Standard Protection against chemically active substances
Language:														EN ES IT CZ FR BG	German English Spanish Italian Czech French Bulgarian Greek

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 800SC-DE)

TCS 800SC-DE (price before options):       2       DE       x
Cabinet:
Voltage level:         0         0         20 kV
Medium voltage     1     Transformer with iron core       transformer:     2     4     Transformer with amorphous core
Indisioner with amorphous core
LV power switch:
Internal power I I I I I I I I I I I I I I I I I I I
supply: 1 V With
Communit:
Medium voltage
switchgear:
Surrounding area:
Language: DE German
English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 630SC-DE)

Valid from: as provided	in co	ontr	act	t										
TCS 630SC-DE (price before options):	1	DE	×	x	x	x	×	×	x	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		Ι	0	1		1		1		_				Concrete compact station
			1											Steel compact station
Voltage level:				0										20 kV
Medium voltage					1									Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0 1								Without With
Internal power		1				F	0	F	F	F				Without
supply:							1							With
							L.	0			-	-	-	Without
Communit:								ľ						With
		-		⊢		⊢		Ľ	0	⊢				Without
Medium voltage									1					String connection (2-field)
switchgear:									2					
		-		⊢		⊢		⊢	2		-		-	Ring connection (3-field) Standard
Surrounding area:										0				
		_		L		<u> </u>		L		1	_		_	Protection against chemically active substances
Language:														German
													EN	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 500SC-DE)

Valid from: as provided in	n con	trac	t										
TCS 500SC-DE (price before options):	0 DI	Ex	×	×	×	x	x	x	×	0	o		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0											Concrete compact station
		1											Steel compact station
Voltage level:			0										20 kV
Medium voltage				1									Transformer with iron core
transformer:				2									Transformer with amorphous core
LV power switch:					0								Without
Et power switch.					1								With
Internal power						0							Without
supply:						1							With
Communit:							0						Without
Communii:							1						With
Mar Burn and America								0					Without
Medium voltage								1					String connection (2-field)
switchgear:								2					Ring connection (3-field)
<b>c b</b>									0				Standard
Surrounding area:									1				Protection against chemically active substances
									T		T	DE	German
Language:												FN	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## DE) Version for Germany

# Transformer Compact Station for SC-CP-Inverter (TCS 1800SC-IT)

Valid from: as provided	in (	cont	rac	t										
TCS 1800SC-IT (price before options):	6	п	x	×	x	×	x	×	x	×	×	x	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
- 14														
Cabinet:	-	-	0			-		Ŀ		_			_	Concrete compact station
Voltage level:	-	_		0		_								20 kV
Medium voltage					1			Ŀ						Transformer with iron core
transformer:		_												
LV power switch:						0								Without With
Internal power							0	Г						Without
supply:							1	Ŀ						With
								0	,	-			-	Without
Communit:								ľ						With
		t-				⊢		Ľ	0	⊢		-		Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
		-		-		⊢			2	0		-		Standard
Surrounding area:										ľ				Protection against chemically active substances
Additional		-		-		⊢				Ľ	0	-		Without
											1			
equipment:		-		⊢		-				⊢	1	•	-	Counter for low voltage side Without
Additional power:												0 1		Without Transport & SC CP connection
1													EN	English
Language:													IT	Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-IT)

Valid from: as provided	l in	con	trac	t										
TCS 1600SC-IT (price before options):	5	п	x	×			¢ 3	ĸ	×	× >	κ x		xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
					T			Ţ						
Cabinet:			0	-										Concrete compact station
Voltage level:				0										20 kV 15kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							(							Without With
Communit:									0 1					Without With
Medium voltage switchgear:										D 1 2				Without String connection (2-field) Ring connection (3-field)
Surrounding area:										1				Standard Protection against chemically active substances
Additional equipment:											0 1			Without Counter for low voltage side
Additional power:												0		Without Transport & SC CP connection
Language:														English Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-IT)

Valid from: as provided	d in	con	trac	t										
TCS 1250SC-IT (price before options):	4	п	×	×		< >	¢ 3	×	x	×	( <b>)</b>		: <b>x</b> :	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
												T		
Cabinet:		_	0	-										Concrete compact station
Voltage level:				0								L		20 kV 15kV
Medium voltage transformer:					1	I								Transformer with iron core
LV power switch:						0								Without With
Internal power supply:								0 1						Without With
Communit:									0 1					Without With
Medium voltage switchgear:										0 1 2				Without String connection (2-field) Ring connection (3-field)
Surrounding area:											)			Standard Protection against chemically active substances
Additional equipment:											( 1			Without Counter for low voltage side
Additional power:												1		Without Transport & SC CP connection
Language:														English Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-IT)

Valid from: as provided	l in	con	trac	t										
TCS 1000SC-IT (price before options):	3	п	x	×			¢ 3	ĸ	×	× >	: <b>x</b>	×	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
					T			Ţ						
Cabinet:			0	-								_		Concrete compact station
Voltage level:				0										20 kV 15kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							(							Without With
Communit:									0 1					Without With
Medium voltage switchgear:										D 1 2				Without String connection (2-field) Ring connection (3-field)
Surrounding area:										1				Standard Protection against chemically active substances
Additional equipment:											0			Without Counter for low voltage side
Additional power:												0 1		Without Transport & SC CP connection
Language:														English Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 900SC-IT)

Valid from: as provided	d in	con	trac	t										
TCS 900SC-IT (price before options):	7	п	×	×	×	×	×	×	×	x	×	x	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0	_		1		1		<u> </u>				Concrete compact station
Voltage level:				0				L		L				20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
Communit:				F				0						Without
								1	_					With
Medium voltage									0					Without
switchgear:									1					String connection (2-field)
swiichgeut.								1	2					Ring connection (3-field)
Surrounding area:										0				Standard
										1				Protection against chemically active substances
Additional				1		1		1		1	0			Without
equipment:											1			Counter for low voltage side
Additional power:												0 1		Without Transport & SC CP connection
		-			-			-		-		-	-	
Language:														English
												L	П	Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 800SC-IT)

Valid from: as provided	l in	con	trac	t										
TCS 800SC-IT (price before options):	2	п	×	×			×	×	x	x	x	x	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	0	-										Concrete compact station
Voltage level:				0										20 kV 15kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							0 1							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0 1				Standard Protection against chemically active substances
Additional equipment:											0 1			Without Counter for low voltage side
Additional power:												0 1		Without Transport & SC CP connection
Language:													EN	English Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 630SC-IT)

Valid from: as provided	lin	con	trac	t										
TCS 630SC-IT (price before options):	1	п	×	×		( x	×	×	×	×	x	x	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
					T									
Cabinet:			0	_										Concrete compact station
Voltage level:				0 3										20 kV 15kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							0 1							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0 1				Standard Protection against chemically active substances
Additional equipment:											0 1			Without Counter for low voltage side
Additional power:												0 1		Without Transport & SC CP connection
Language:														English Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 500SC-IT)

Valid from: as provided	l in	con	trac	t										
TCS 500SC-IT (price before options):	o	п	×	×			×	×	×	×	x	x	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0	_										Concrete compact station
Voltage level:				0 3										20 kV 15kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							0 1							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0 1				Standard Protection against chemically active substances
Additional equipment:											0 1			Without Counter for low voltage side
Additional power:												0 1		Without Transport & SC CP connection
Language:														English Italian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

# Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-FR)

Valid from: as provided	lin	coni	rac	t										
TCS 1600SC-FR (price before options):	5	FR	x	×	x	x	x	×	×	x	x	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0											Concrete compact station
Voltage level:				0										20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						1								With
Internal power							0							Without
supply:							1							With
Communit:								0						Without
		t		F		⊢		f	0	H				Without
Medium voltage									1					String connection (2-field)
switchgear:		1							2					Ring connection (3-field)
	-	-		-		⊢		H	2	0	-		_	Standard
Surrounding area:										1				
		1		⊢		⊢		H		Ľ	-		_	Protection against chemically active substances Without
		1									0			
Additional											2			Staggered switch
equipment:		1									3			Hierarchical key
											4			Staggered switch and hierarchical key
		E				⊢		F				۲	EN	English
Language:														French
	-	1	_			-				-			-	

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

# Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-FR)

Valid from: as provided	l in	con	rac	t										
TCS 1250SC-FR (price before options):	4	FR	x	×	x	x	×	×	x	x	x	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0	_		L		1						Concrete compact station
Voltage level:				0		L		L.						20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						1								With
Internal power							0							Without
supply:							1							With
Communit:		1						0		L				Without
		1		ŀ			F	ť	0	1		-	-	Without
Medium voltage									1					String connection (2-field)
switchgear:		1						1	2					Ring connection (3-field)
		-		-		⊢	_	H	2	_			_	Standard
Surrounding area:		1								0				
	-	-		-		⊢		-	_	Ľ			-	Protection against chemically active substances Without
		1						1			0			
Additional											2			Staggered switch
equipment:											3			Hierarchical key
											4			Staggered switch and hierarchical key
		F							F				EN	English
Language:													FR	French

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

# Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-FR)

Valid from: as provided	l in d	coni	trac	t										
TCS 1000SC-FR (price before options):	3	FR	×	×	×	×	×	×	×	x	x	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
			_											
Cabinet:			0	_			—	-						Concrete compact station
Voltage level:		L		0		L	$\vdash$	1		<u> </u>				20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						1								With
Internal power							0							Without
supply:							1							With
Communit:								0						Without
								Ť	0					Without
Medium voltage								1	1					String connection (2-field)
switchgear:								1	2					Ring connection (2-field)
		⊢		⊢		⊢		H	2					
Surrounding area:								1		0				Standard
		_		L			-	L		1				Protection against chemically active substances
											0			Without
Additional											2			Staggered switch
equipment:								1			3			Hierarchical key
ederbinem.											4			Staggered switch and hierarchical key
								Γ					EN	English
Language:													FR	French
										•				

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

# Transformer Compact Station for SC-CP-Inverter (TCS 800SC-FR)

Valid from: as provided	lin	coni	rac	t										
TCS 800SC-FR (price before options):		FR			×	x	×	×	×	×	×	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	0	_				_						Concrete compact station
Voltage level:				0				_						20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						1								With
Internal power							0							Without
supply:							1							With
Communit:								0						Without
		t		F		⊢		É	0			-		Without
Medium voltage		1						1	1					String connection (2-field)
switchgear:		1							2					Ring connection (3-field)
		-		-		⊢		H	2	0	-		-	Standard
Surrounding area:		1						1		1				
		-		⊢		⊢		H		Ľ		_	-	Protection against chemically active substances Without
											0			
Additional		1						1			2			Staggered switch
equipment:		1						1			3			Hierarchical key
		1									4			Staggered switch and hierarchical key
				L		L		1						
Language:														English
Language.													FR	French

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

# Transformer Compact Station for SC-CP-Inverter (TCS 630SC-FR)

Valid from: as provided	l in	con	trac	t										
TCS 630SC-FR (price before options):	1	FR	×	×	x	×	×	×	×	×	×	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0											Concrete compact station
Voltage level:				0										20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						1								With
Internal power							0							Without
supply:							1							With
Communit:								c						Without
				F		t	1	t	0			F		Without
Medium voltage									1					String connection (2-field)
switchgear:						Ĺ			2					Ring connection (3-field)
		-		⊢		⊢	+	t	2	0		-	-	Standard
Surrounding area:										1				
		-		⊢		⊢	+	H		<u>'</u>	_	⊢	-	Protection against chemically active substances Without
						1					0			
Additional											2			Staggered switch
equipment:						1					3			Hierarchical key
- 1 - II.											4			Staggered switch and hierarchical key
	t							t					EN	English
Language:						1								French

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

# Transformer Compact Station for SC-CP-Inverter (TCS 500SC-FR)

Valid from: as provided	lin	coni	trac	t										
TCS 500SC-FR (price before options):		FR			×	×	×	×	×	×	x	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	0	_				_						Concrete compact station
Voltage level:				0				_						20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						1								With
Internal power							0							Without
supply:							1							With
Communit:								0						Without
		t		F		F		É	0			-		Without
Medium voltage									1					String connection (2-field)
switchgear:		1							2					Ring connection (3-field)
	-	-		⊢		-		H	2	0		-	-	Standard
Surrounding area:		1						1		1				
	-	-		-		⊢		H		Ľ		-	-	Protection against chemically active substances Without
											0			
Additional											2			Staggered switch
equipment:		1						1			3			Hierarchical key
		1									4			Staggered switch and hierarchical key
				L		L		L.						
Language:														English
Language.													FR	French

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

# Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-ES)

Valid from: as provided	d in d	cont	rac	t										
TCS 1600SC-ES (price before options):	5	ES	×	×	×	x	×	×	×	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
	_													
Cabinet:	_		0	_			_	-		_				Concrete compact station
Voltage level:				0		_				_				20 kV
Medium voltage					1			Ŀ						Transformer with iron core
transformer:														
LV power switch:						0								Without With
Internal power							0							Without
supply:							1			1				With
Communit:								0						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0 1				Standard Protection against chemically active substances
Language:								I						English Spanish

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

## Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-ES)

Valid from: as provided	d in c	onti	ract	t										
TCS 1250SC-ES (price before options):	4	ES	x	×	×	×	×	,	c x	×	o	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0	_	_	-	_					_		Concrete compact station
Voltage level:				0		_								20 kV
Medium voltage					1			Ŀ						Transformer with iron core
transformer:														
LV power switch:						0								Without With
Internal power							0							Without
supply:						1	1							With
								c	5		T			Without
Communit:								h						With
								T	0	,				Without
Medium voltage						Ĺ			1					String connection (2-field)
switchgear:						Ĺ			2					Ring connection (3-field)
Surrounding area:										0		F		Standard Protection against chemically active substances
				⊢		1		-		ť		H	<b>E b</b> ·	
Language:														English
													ES	Spanish

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

## Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-ES)

Valid from: as provided	in coi	ntrac	ct										
TCS 1000SC-ES (price before options):	3 E	S x	×	×	×	×	x	×	×	0	0		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0					_						Concrete compact station
Voltage level:			0	)									20 kV
Medium voltage				1									Transformer with iron core
transformer:													
LV power switch:					0								Without With
Internal power						0							Without
supply:						1							With
			İ.				0					_	Without
Communit:							ľ						With
			Ŀ				Ľ	0	-			_	Without
Medium voltage								1					String connection (2-field)
switchgear:								2					Ring connection (3-field)
			Ŀ	╋	+	-	⊢	2	0		_		Standard
Surrounding area:									ĩ				Protection against chemically active substances
				+	+	-		-	·	_	_		English
Language:													Spanish
												52	spanisn

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

## Transformer Compact Station for SC-CP-Inverter (TCS 800SC-ES)

TCS 800SC-ES (price before options):       2       ES       x	Valid from: as provided	in co	ntra	ct									
Voltage level:       0       20 kV         Medium voltage transformer:       1       1       Transformer with iron core         LV power switch:       0       1       Without         Internal power supply:       0       1       Without         Communit:       0       1       Without         Medium voltage switchgear:       0       0       Without         0       1       Without       Without         Surrounding area:       0       0       Without         Surrounding area:       0       0       1         Image:       0       0       1         Image:       0       0       1         Image:       0       0       1         0       1       0       1         0       1       0       1         0       1       0       1         0       1       0       1         0       1       0       1         0       1       0       1         0       1       0       1         0       1       0       1         0       1       0       1 <td>(price before</td> <td>2 8</td> <td>ES 3</td> <td>ĸ</td> <td>×</td> <td>×</td> <td>x</td> <td>x</td> <td>x</td> <td>×</td> <td>× (</td> <td>xx</td> <td></td>	(price before	2 8	ES 3	ĸ	×	×	x	x	x	×	× (	xx	
Voltage level:       0       20 kV         Medium voltage transformer:       1       20 kV         LV power switch:       0       1       Without Without         LV power switch:       0       0       Without         supply:       0       1       Without         Gommunit:       0       0       Without         Medium voltage switchgear:       0       Vithout         Surrounding area:       0       0       Vithout         Surrounding area:       0       0       Standard Protection against chemically active substances													
Medium voltage transformer:       1       1       I       I       Transformer with iron core         LV power switch:       0       0       1       Without       Without         Internal power supply:       0       0       Without       Without         Communit:       0       0       Without       Without         Medium voltage switchgear:       0       0       Without       Without         Surrounding area:       0       0       Vithout       String connection (2-field) Ring connection (3-field)         Surrounding area:       0       0       Standord Protection against chemically active substances			(		_								
transformer:       I       I       I       Iransformer with iron core         LV power switch:       I       I       I       I       Vithout         Internal power supply:       I       I       I       Vithout         Communit:       I       I       I       Vithout         Medium voltage switchgear:       I       I       I       Vithout         Surrounding area:       I       I       I       I       Vithout         Ring connection (3-field)       String connection (3-field)       String connection (3-field)         Ring connection (3-field)       String connection (3-field)       String connection (3-field)			_		0				_				20 kV
transformer:       0       0       0       0         LV power switch:       0       0       1       0       Without         Internal power supply:       0       0       0       Without         Communit:       0       0       0       Without         Medium voltage switchgear:       0       0       0       Without         Surrounding area:       0       0       0       Standard         Protection against chemically active substances       Image: English       English						1							Transformer with iron core
LV power switch:       1       1       1       With         Internal power supply:       0       1       Without         Communit:       0       1       Without         Medium voltage switchgear:       0       1       0         Surrounding area:       0       0       0         Internal power       0       0       Without         Without       Without       Without         Medium voltage switchgear:       0       0       Without         Surrounding area:       0       0       Standard Protection against chemically active substances	transformer:												
supply:       I       I       With         Communit:       I       I       With         Medium voltage switchgear:       I       I       Vithout         Surrounding area:       I       I       I       Vithout         Surrounding area:       I       I       I       I       I         Image: Image	LV power switch:												
Communit:       0       1       Without         Medium voltage switchgear:       0       1       Without         Surrounding area:       0       0       String connection (2-field)         Ring connection (3-field)       Standard       Protection against chemically active substances         Image:       0       0       Standard         Protection against chemically active substances       EN English	Internal power							0					Without
Communit:       0       1       Without         Medium voltage switchgear:       0       1       Without         Surrounding area:       0       0       Vithout         Surrounding area:       0       0       Standard         Protection gainst chemically active substances       EN English	•							1					With
Communit:       1       With         Medium voltage switchgear:       0       Vithout         Surrounding area:       0       Vithout         Surrounding area:       0       0         Image: Surrounding area:       0       0					1				0				Without
Medium voltage switchgear:     0     0     Without       Surrounding area:     0     0     Standard 1       Surrounding area:     0     0	Communit:												
Medium voltage switchgear:       1       1       String connection (2-field) Ring connection (3-field)         Surrounding area:       0       0       Standard Protection against chemically active substances         Image:       0       1       EN English					1					0	T		
switchgear:     2     Ring connection (3-field)       Surrounding area:     0     1       Standard     Protection against chemically active substances										1			
Surrounding area:     0     1     Standard Protection against chemically active substances       Inservage:     Image: Imag	switchgear:												•
English	Surrounding area:				1					(			Standard
												FN	
	Language:				1								

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

## Transformer Compact Station for SC-CP-Inverter (TCS 630SC-ES)

Valid from: as provided	in co	ontr	act	ł										
TCS 630SC-ES (price before options):	1	ES	×	x	x	x	×	×	×	x	0	o	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0							_				Concrete compact station
Voltage level:		_		0						_				20 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						0 1		L						Without With
Internal power							0							Without
supply:							1							With
							T	0					F	Without
Communit:								1						With
						F		Ľ	0	t				Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
		-		⊢		┢			1	0		-		Standard
Surrounding area:										1				Protection against chemically active substances
		-		$\vdash$				h		Ľ		-	FN	English
Language:														Spanish
				L									5	Dhauisu

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

## Transformer Compact Station for SC-CP-Inverter (TCS 500SC-ES)

Valid from: as provided	in co	ontro	act											
TCS 500SC-ES (price before options):	0	ES	×	×	×	x	x	x	x	x	0	o	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	0			_								Concrete compact station
Voltage level:		_	_	0										20 kV
Medium voltage		- 1			1									Transformer with iron core
transformer:														
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
								0						Without
Communit:								1						With
									0					Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
										0				Standard
c														
Surrounding area:		- 1								1				Protection against chemically active substances
Surrounding area:						┝				1			EN	Protection against chemically active substances English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

## Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-CZ)

Valid from: as provided	in c	ontr	act											
TCS 1600SC-CZ (price before options):	5	cz	×	x	×	x	x	×	×	x	0	o	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0			_		-		_				Concrete compact station
Voltage level:				4		L		_		L				22 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
								0						Without
Communit:								1						With
									0			Г		Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
Surrounding area:		1								0 1				Standard Protection against chemically active substances
		_	_		_	_					_	-	_	
Language:													EN	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

## Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-CZ)

Valid from: as provided	in co	ntra	ict											
TCS 1250SC-CZ (price before options):	4	cz :	ĸ	×	×	x	x	×	×	x	0	o	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			D											Concrete compact station
Voltage level:				4										22 kV
Medium voltage					1									Transformer with iron core
transformer:					•									
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
				1				0						Without
Communit:								1						With
				1				Ľ	0					Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
Surrounding area:	Ħ								-	0 1				Standard Protection against chemically active substances
		-		-			-	-	_		-	-		English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

## Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-CZ)

Valid from: as provided	in co	ntra	ct										
TCS 1000SC-CZ (price before options):	3 0	к ZZ		¢ :	×	×	×	<b>X</b> .	×>	c (	0	) x:	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		C											Concrete compact station
Voltage level:			4	1									22 kV
Medium voltage					1								Transformer with iron core
transformer:													
LV power switch:						0							Without With
Internal power							0						Without
supply:							1						With
Communit:				1		1		0		1		1	Without
								1					With
Medium voltage								1	D	1			Without
switchgear:									1				String connection (2-field)
smilligeur.									2				Ring connection (3-field)
Surrounding area:									C	)			Standard
Sorroonang area:									1				Protection against chemically active substances
												Eľ	English
Language:													Czech

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

## Transformer Compact Station for SC-CP-Inverter (TCS 800SC-CZ)

Valid from: as provided	in co	ontr	act	ł										
TCS 800SC-CZ (price before options):	2	cz	×	x	×	x	×	×	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0											Concrete compact station
Voltage level:				4										22 kV
Medium voltage					1									Transformer with iron core
transformer:														
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
						I		0	T			-		Without
Communit:								1						With
								L	0					Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
		-	-						-	0				Standard
Surrounding area:										1				Protection against chemically active substances
				-		H		F		Ė		-	EN	English
Language:														Czech
		_				I							-	

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

## Transformer Compact Station for SC-CP-Inverter (TCS 630SC-CZ)

Valid from: as provided	in co	ntra	ct											
TCS 630SC-CZ (price before options):	1 0	CZ >	ĸ	×	×	×	x	x	×	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		C	)											Concrete compact station
Voltage level:				4										22 kV
Medium voltage					1									Transformer with iron core
transformer:					•									
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
				1				0		F				Without
Communit:								ĩ						With
				1		-		Ė	0	⊢	-	-		Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
Surrounding area:									-	0 1				Standard Protection against chemically active substances
				-		-		⊢		Ľ		-	E. 1.	English
Language:														Czech
				- 1				1		1			CZ	Czech

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

## Transformer Compact Station for SC-CP-Inverter (TCS 500SC-CZ)

Valid from: as provided	in coi	ntrac	ct										
TCS 500SC-CZ (price before options):	o c	Z x	. ×	×		×	×	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0											Concrete compact station
Voltage level:			4	L .									22 kV
Medium voltage				1									Transformer with iron core
transformer:													
LV power switch:					0								Without With
Internal power						0							Without
supply:						1							With
							0						Without
Communit:							ľ						With
							Ľ	0				-	Without
Medium voltage								1					String connection (2-field)
switchgear:								2					Ring connection (3-field)
					-			- 2	0		-		Standard
Surrounding area:									ľ				Protection against chemically active substances
					-	-			Ľ		-	ENI	
Language:													English Czech

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

## Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-BG)

Valid from: as provided	in c	ontr	act											
TCS 1600SC-BG (price before options):	5	BG	×	x	×	x	x		K X	×	G	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	0							_				Concrete compact station
Voltage level:				0										20 kV
Medium voltage					1									Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0		L						Without With
Internal power							0							Without
supply:							1							With
				-		Г		0	5			T		Without
Communit:								1						With
						F	T	Ē	0	,	t	T		Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
							T	T		0				Standard Protection against chemically active substances
Surrounding area:														Frolection against chemically active substances
Surrounding area: Language:			-		-			t		Ľ		t	EN	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

## Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-BG)

Valid from: as provided	in co	ntra	ct										
TCS 1250SC-BG (price before options):	4 6	8G >	<	x	×	×	×	x	×	×	0	) x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0	)	_								4	Concrete compact station
Voltage level:				0						-			20 kV
Medium voltage					1								Transformer with iron core
transformer:					2								Transformer with amorphous core
LV power switch:						0 1							Without With
Internal power							0						Without
supply:							1						With
				1				0		T			Without
Communit:								1					With
				1					0	Ť			Without
Medium voltage									1				String connection (2-field)
switchgear:									2				Ring connection (3-field)
Surrounding area:				1						0			Standard Standard Protection against chemically active substances
				+		-				•		-	
Language:													
				- 1						1		B	Bulgarian

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

## Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-BG)

Valid from: as provided	in co	ontro	ıct											
TCS 1000SC-BG (price before options):	3	BG	×	×	×	x	x	x	×	×	0	0		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0							_				Concrete compact station
Voltage level:				0										20 kV
Medium voltage					1									Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
								0						Without
Communit:								1						With
·									0					Without
									1					String connection (2-field)
Medium voltage														
Medium voltage switchgear:												ļ		•
						-			2	0 1	_			Ring connection (3-field) Standard
switchgear:									2				EN	Ring connection (3-field)

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

## Transformer Compact Station for SC-CP-Inverter (TCS 800SC-BG)

Valid from: as provided	in co	ntra	ct										
TCS 800SC-BG (price before options):	2 6	G:	ĸ	×	×	×	×	×	x x	×	c	) x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			)										Concrete compact station
Voltage level:				0									20 kV
Medium voltage					1								Transformer with iron core
transformer:					2								Transformer with amorphous core
LV power switch:						0 1							Without With
Internal power							0						Without
supply:							1						With
Communit:								0 1					Without With
Medium voltage switchgear:									0 1 2	Ŀ			Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0			Standard Protection against chemically active substances
Language:											1		English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

## Transformer Compact Station for SC-CP-Inverter (TCS 630SC-BG)

Valid from: as provided	in co	ntra	ct											
TCS 630SC-BG (price before options):	1 8	Gx		c 3	×	×	×	x	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0												Concrete compact station
Voltage level:			C	2										20 kV
Medium voltage				1	1									Transformer with iron core
transformer:				1	2									Transformer with amorphous core
LV power switch:						0								Without With
Internal power						T	0							Without
supply:				1			1							With
Communit:						I		0						Without With
Medium voltage switchgear:									0 1 2					With Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0 1				Standard Protection against chemically active substances
			-				-		_	_	-		_	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

## Transformer Compact Station for SC-CP-Inverter (TCS 500SC-BG)

Valid from: as provided	in co	ntra	ct											
TCS 500SC-BG (price before options):	0 8	G >	¢ .	×	×	×	×	×	×	×	o	o	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		C												Concrete compact station
Voltage level:				0										20 kV
Medium voltage					1									Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0								Without With
Internal power							0							Without
supply:							1							With
Communit:				1				0 1						Without With
Medium voltage switchgear:		I							0 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0 1				Standard Protection against chemically active substances
Language:													EN	English

## Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

## Transformer Compact Station for SC-CP-Inverter (TCS 1800SC-GR)

Valid from: as provided	in co	ntra	ct												
TCS 1800SC-GR (price before options):	6 0	GR 3	×	x	×	x	×	: :	K :	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		1	1												Steel compact station
Voltage level:				0											20 kV
Medium voltage transformer:					1										Transformer with iron core
LV power switch:						0 1					1				Without With
Internal power supply:							0	)			1				Without With
Communit:									2 1		1				Without With
Medium voltage switchgear:										D 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:											0 1				Standard Protection against chemically active substances
Language:											1			EN	English Greek

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

#### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-GR)

Valid from: as provided	in co	ntrac	:t										
TCS 1600SC-GR (price before options):	5 G	R×	×	×	×	×	x	×	×	0	0		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0											Concrete compact station
		1	_										Steel compact station
Voltage level:			0										20 kV
Medium voltage				1									Transformer with iron core
transformer:				2									Transformer with amorphous core
LV power switch:					0								Without
· ·					1	_	_						With
Internal power						0							Without
supply:						1							With
Communit:							0						Without
							1						With
Medium voltage								0	٦		٦		Without
								1					String connection (2-field)
switchgear:			1					2					Ring connection (3-field)
c									0				Standard
Surrounding area:									1				Protection against chemically active substances
Language:			1		1		1		1		1	EN	English
Lunguuge:												GR	Greek

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

#### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-GR)

Valid from: as provided	in co	ntra	ct											
TCS 1250SC-GR (price before options):	4 0	Ĵ₽R →	¢	×	x	×	×	x	×	×	0	o		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0	)											Concrete compact station Steel compact station
Voltage level:				0			-					1		20 kV
Medium voltage					1					1				Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0								Without With
Internal power							0	$\square$		┫			_	Without
supply:							1			1				With
								0					_	Without
Communit:								1						With
Medium voltage									0	1				Without
switchgear:									1					String connection (2-field)
stricitycu.									2					Ring connection (3-field)
Surrounding area:										0				Standard
										1				Protection against chemically active substances
Language:														English
										_			GR	Greek

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

#### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-GR)

Valid from: as provided	in co	ntrac	ct										
TCS 1000SC-GR (price before options):	3 G	R x	×	x	×	×	×	x	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0					1						Concrete compact station
		1	-		_		_					_	Steel compact station
Voltage level:			0	_	_	_	_					_	20 kV
Medium voltage				1									Transformer with iron core
transformer:				2	_								Transformer with amorphous core
LV power switch:			L		0								Without With
Internal power			h	-	+ ·	0		_				_	Without
supply:					1	1							With
3044131			H		-	Ľ	0		_		_	-	Without
Communit:							1						Without With
			Ē		t		L	0					Without
Medium voltage					1			1					String connection (2-field)
switchgear:					1			2					Ring connection (3-field)
·			h		E				0		-		Standard
Surrounding area:									1				Protection against chemically active substances
Lanauran												EN	English
Language:												GR	Greek

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

#### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 900SC-GR)

Valid from: as provided	l in c	onti	act	ł										
TCS 900SC-GR (price before options):	7	GR	×	x	x	x	×	×	x	x	0	o	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			1											Steel compact station
Voltage level:				0										20 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0 1								Without With
Internal power supply:							0 1							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:										0 1				Standard Protection against chemically active substances
Language:														English Greek

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 800SC-GR)

Valid from: as provided	l in cc	ontra	ct											
TCS 800SC-GR (price before options):	2 0	GR >	ĸ	×	x	x	x	×	×	×	o	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0	Ι		_								Concrete compact station
Voltage level:		-	1	0	_				_				_	Steel compact station
Medium voltage		+	-	0				_	_		_		_	Transformer with iron core
meaium voirage transformer:					1 2									Transformer with amorphous core
iransformer:		+	-	-	2	0		_	_		_		_	Without
LV power switch:						1								With
Internal power				-	_	-	0	_	_	_	_		_	Without
supply:							1							With
		+		-			-	0			-	-	-	Without
Communit:								1						With
				-				H	0				-	Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
									-	0				Standard
Surrounding area:										1				Protection against chemically active substances
Lennunger													EN	English
Language:													GR	Greek
														•

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 630SC-GR)

Increde before options]:       I       GR       x<	Valid from: as provided	l in cc	ntra	ct											
Cabinef:       I <thi< th="">       I       <thi< th="">       I       <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>	TCS 630SC-GR (price before options):	1 (	Ĵ₽R →	¢	×	x	×	×	×	×	×	ο	ο	xx	
Cabinef:       I <thi< th="">       I       <thi< th="">       I       <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>															
Voltage level:       0       0       20 kV         Medium voltage transformer:       2       1       20 kV         Internal power supply:       0       1       2       4         Medium voltage switch:       0       1       2       4       4         Internal power supply:       0       1       4       4       Without With         Communit:       0       1       4       4       Without With         Medium voltage switchgear:       0       1       4       4       Without Without With         Surrounding area:       0       1       4       4       4       4       4         Language:       4       4       4       5       4       5       5       5         Medium voltage switchgear:       4	Cabinet:				Ι										
Medium voltage transformer:       1       2       Image: Constraint of the state of the st	Value land				_	_	_			_	_	_			
transformer:       2       1       1       Transformer with amorphous core         LV power switch:       1       0       1       Without         Internal power supply:       1       0       Without         Communit:       1       0       Without         Without       Without       Without         Medium voltage switchgear:       0       0       Without         Surrounding area:       0       0       Vithout         Enguise       0       0       Standard         Protection against chemically active substances       Protection against chemically active substances			-	-	-					_		_			
LV power switch:       0       0       Without         Internal power       0       0       Without         supply:       0       0       Without         Communit:       0       0       Without         Medium voltage switchgear:       0       0       Vithout         Surrounding area:       0       0       Vithout         Language:       0       0       Vithout															
LV power switch:       1       1       1       1       With         Internal power supply:       0       1       Without       Without         Communit:       0       1       0       With without         Medium voltage switchgear:       0       1       0       Without         Surrounding area:       0       0       0       Vithout         Language:       0       0       0       String connection (2-field) Ring connection (3-field)	indusionmen.				-	2	0	_	-	_	-	_			
Internal power       0       0       Without         supply:       0       0       Without         Communit:       0       0       Without         Medium voltage       0       0       Without         switchgear:       0       0       Vithout         2       0       1       Without         Surrounding area:       0       0       Standard         Protection against chemically active substances       EN       English	LV power switch:														
supply:       I       I       I       I       With         Communit:       I       I       I       I       Vithout         Medium voltage switchgear:       I       I       I       I       Vithout         Surrounding area:       I       I       I       I       Vithout         Surrounding area:       I       I       I       I       I         Image: Arround and the second	Internal newer			+		_		0	_	_		_	_		
Communit:       0       1       Without         Medium voltage switchgear:       0       1       Without         Surrounding area:       0       0       1         Surrounding area:       0       0       Standard         Protection against chemically active substances       EN       English								1							
Communit:       1       Vith         Medium voltage switchgear:       1       0       1         String connection (2-field)       1       String connection (2-field)         Surrounding area:       0       0       Standard         Index       0       1       Protection against chemically active substances								-	0					_	
Medium voltage switchgear:       No	Communit:														
Medium voltage switchgear:       1       2       String connection (2-field) Ring connection (3-field)         Surrounding area:       0       1       Standard Protection against chemically active substances         Innguage:       0       1       English									H	0	-		_	_	
Surrounding area:     2     Ring connection (3-field)       Surrounding area:     0     Standard       Protection against chemically active substances     Protection against chemically active substances	Medium voltage														
Surrounding area: 0 0 1 Standard Protection against chemically active substances	switchgear:														
Surrounding area: 1 Protection against chemically active substances					+				$\vdash$	-	0			_	
	Surrounding area:														
Language:	Languages													EN	English
Greek	Language:				1									GR	Greek

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 500SC-GR)

Valid from: as provided	l in co	ntra	ct										
TCS 500SC-GR (price before options):	0	GR x		c x	×	×	x	×	x	0	ο	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0											Concrete compact station
Value a laval		1					-	_	_	_			Steel compact station
Voltage level:		-		_	-	_	-	_	_	_			ZU KV Transformer with iron core
Medium voltage transformer:				1									
fransformer:			÷	2		_	-	_					Transformer with amorphous core Without
LV power switch:					0								Without With
Internal power					t i	0				-	-		Without
supply:						ī							With
		+				L.	0				_	-	Without
Communit:							ĩ						With
			t				Ė	0					Without
Medium voltage								1					String connection (2-field)
switchgear:								2					Ring connection (3-field)
· · · ·								-	0				Standard
Surrounding area:									1				Protection against chemically active substances
1												EN	English
Language:													Greek

#### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

#### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

#### GR) Version for Greece

## Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-IN)

Valid from: as provided	in co	ntra	ct											
TCS 1600SC-IN (price before options):	5	N >	ĸ	×	×	×	×	x	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		1	1											Steel compact station
Voltage level:				2 6										11 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0 1								Without With
Internal power supply:							0 1							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV
Surrounding area:										0				Standard
Language:													EN	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Naini, Uttar Pradesh, India.

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-IN)

Valid from: as provided	lin	con	trac	t										
TCS 1250SC-IN (price before options):	4	Z	×	x	x	x	×	×	×	x	o	0	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		-	1					_						Steel compact station
Voltage level:				2										11 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							0							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV
Surrounding area:										0				Standard
Language:													EN	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Naini, Uttar Pradesh, India.

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-IN)

Valid from: as provided	l in	con	trac	t										
TCS 1000SC-IN (price before options):	3	Z	×	x	x	x	×	×	×	x	o	0	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	1					_						Steel compact station
Voltage level:				2										11 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							0 1							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV
Surrounding area:										0				Standard
Language:													EN	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Naini, Uttar Pradesh, India.

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 800SC-IN)

Valid from: as provided	lin	con	trac	t										
TCS 800SC-IN (price before options):	2	IN	×	×	×	×	×		x	×	0	o	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	1	_										Steel compact station
Voltage level:				2										11 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							0							Without With
Communit:								1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV
Surrounding area:										0				Standard
Language:													EN	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Naini, Uttar Pradesh, India.

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 630SC-IN)

Valid from: as provided	l in d	con	trac	t										
TCS 630SC-IN (price before options):	1	ZI	x	×	×	×	×	×	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
	-		1	-	_				-				_	
Cabinet:		-	-	_	_	-		-		-			_	Steel compact station 11 kV
Voltage level:				0 6										33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0								Without With
Internal power supply:							0							Without With
Communit:								0						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV
Surrounding area:										0				Standard
Language:													EN	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Naini, Uttar Pradesh, India.

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 500SC-IN)

Valid from: as provided	d in cor	ntra	ct											
TCS 500SC-IN (price before options):	11 0	N X	: : :	c >	×	×	×	×	×	K	D	× 0	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, w reduced losses and is permitted for ambient temperatures from -20°C to +45°C.	<i>v</i> ith
Cabinet:		1				_	_	_		-	-	-	Steel compact station	
Voltage level:				2									11 kV 33 kV	
Medium voltage transformer:				1	1								Transformer with iron core	
LV power switch:						0 1							Without With	
Internal power supply:							0 1						Without With	
Communit:						I		0 1					Without With	
Medium voltage switchgear:									0 1 2				Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV	
Surrounding area:						Τ			(	D		T	Standard	
Language:												E	Inglish	

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Naini, Uttar Pradesh, India.

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-AU)

Valid from: as provided	l in	con	trac	t										
TCS 1600SC-AU (price before options):	5	AL	×	×	x	×	x	×	: <b>x</b>	×	o	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -5°C to +50°C.
Cabinet:			1	-	-	-			-	-	-	-		Steel compact station
Cabiner:	+	H	-	2	-	-	-	t				-	+	11 kV
Voltage level:				4										22 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0 1		L						Without With
Internal power supply:							0 1							Without With
Communit:								0						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) 11 kV + 22 kV Ring connection (3-field) 11 kV + 22 kV Ring connection (3-field) 33 kV
Surrounding area:										1				Protection against chemically active substances
Language:													EΝ	English
										_				

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Glen Waverley, Victoria, Australia

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-AU)

Valid from: as provided	d in	con	trac	t										
TCS 1250SC-AU (price before options):	4	AL	x	×	x	×	×	×	×	×	o	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -5 °C to +50 °C.
Cabinet:		-	1	_	-		-	-		-	_	-		Steel compact station
Cabiner:			-	2				Ŀ				-		11 kV
Voltage level:				4										22 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0 1								Without With
Internal power supply:							0 1							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2					Without String connection (2-field) 11 kV + 22 kV Ring connection (3-field) 11 kV + 22 kV Ring connection (3-field) 33 kV
Surrounding area:										1				Protection against chemically active substances
Language:													EΝ	English
	_	_						_	_		_			

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Glen Waverley, Victoria, Australia

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-AU)

Valid from: as provided	d in	cor	trac	ct											
TCS 1000SC-AU (price before options):	3	AI	x ſ	,	c ::	×	x	×	x	x	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -5°C to +50°C.
Cabinet:	Т		1				-	_	_	_			-		Steel compact station
Cubiner.		t	Ť	12	2				-						11 kV
Voltage level:					۱										22 kV 33 kV
Medium voltage transformer:						1									Transformer with iron core
LV power switch:							0 1								Without With
Internal power supply:								0 1							Without With
Communit:									0 1						Without With
Medium voltage switchgear:										0 1 2					Without String connection (2-field) 11 kV + 22 kV Ring connection (3-field) 11 kV + 22 kV Ring connection (3-field) 33 kV
Surrounding area:											1				Protection against chemically active substances
Language:														EΝ	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Glen Waverley, Victoria, Australia

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 800SC-AU)

Valid from: as provided	d in c	ont	rac	t									
TCS 800SC-AU (price before options):	2	AU	x	x	×	×	x	×	×	×	c	 x	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -5°C to +50°C.
Cabinet:			1		_			_		-	_	_	
Cabinet:		-	-	2	-	-	-	ŀ		H	+	+	Steel compact station
Voltage level:				4						L			22 kV 33 kV
Medium voltage transformer:					1								Transformer with iron core
LV power switch:						0 1				L			Without With
Internal power supply:							0 1						Without With
Communit:								0					Without With
Medium voltage switchgear:									0 1 2	L			Without String connection (2-field) 11 kV + 22 kV Ring connection (3-field) 11 kV + 22 kV Ring connection (3-field) 33 kV
Surrounding area:										1			Protection against chemically active substances
Language:												EI	N English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Glen Waverley, Victoria, Australia

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 630SC-AU)

Valid from: as provided	d in c	ont	rac	t											
TCS 630SC-AU (price before options):	1	AU	x	x	×	×		< :	×	κ )	¢	0	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -5°C to +50°C.
			1			-	-	-	-	-	4	_			
Cabinet:	_		-			H		+	+	-		-	_		Steel compact station
Voltage level:				2 4 6		L									22 kV 33 kV
Medium voltage transformer:					1										Transformer with iron core
LV power switch:						0 1									Without With
Internal power supply:							0 1								Without With
Communit:									0						Without With
Medium voltage switchgear:										2					Without String connection (2-field) 11 kV + 22 kV Ring connection (3-field) 11 kV + 22 kV Ring connection (3-field) 33 kV
Surrounding area:										1					Protection against chemically active substances
Language:														EN	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Glen Waverley, Victoria, Australia

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer Compact Station for SC-CP-Inverter (TCS 500SC-AU)

Valid from: as provided	l in c	onti	ract	t											
TCS 500SC-AU (price before options):	0	AU	x	x	×	x	x		< >		£ '	0	0	xx	The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -5°C to +50°C.
Cabinet:			1		_					-	-	_			
Cabinet:				2		H					÷		_		Steel compact station
Voltage level:				4											22 kV 33 kV
Medium voltage transformer:					1										Transformer with iron core
LV power switch:						0 1									Without With
Internal power supply:							0 1								Without With
Communit:								1			I				Without With
Medium voltage switchgear:									1	1					Without String connection (2-field) 11 kV + 22 kV Ring connection (3-field) 11 kV + 22 kV Ring connection (3-field) 33 kV
Surrounding area:										1					Protection against chemically active substances
Language:														EN	English

#### Comments

Excl. transport, transport insurance

Prices apply for delivery ex works Glen Waverley, Victoria, Australia

EXW INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-RO)

Valid from: as provided	in co	ntra	ct											
TCS 1600SC-RO (price before options):	5 6	× ٥.	x 2	ĸ	×	×	×	×	×	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		C												Concrete compact station
Voltage level:			(	D										20 kV
Medium voltage					1									Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0 1								Without With
Internal power						1	0							Without
supply:							1							With
Communit:		T				1		0						Without With
Medium voltage switchgear:		Ì				1			0 1 2					With Without String connection (2-field) Ring connection (3-field)
Surrounding area:						1				0 1				Standard Protection against chemically active substances
Language:													EN	English

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Romania (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

RO) Version for Romania

## Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-RO)

Valid from: as provided	in co	ntra	ct											
TCS 1250SC-RO (price before options):	4 R	0.0	x :	x	×	x	×	x	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		C	)											Concrete compact station
Voltage level:			•	0										20 kV
Medium voltage					1									Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
				t				0		1				Without
Communit:								1						With
									0	1				Without
Medium voltage									1					String connection (2-field)
switchgear:									2					Ring connection (3-field)
Surrounding area:				1						0 1				Standard Protection against chemically active substances
Language:													EN	English

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Romania (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

RO) Version for Romania

## Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-RO)

Valid from: as provided	in co	ntrac	t										
TCS 1000SC-RO (price before options):	3 R	0 x	×	×	×	x	x	×	×	0	o		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0											Concrete compact station
Voltage level:			0										20 kV
Medium voltage				1									Transformer with iron core
transformer:				2									Transformer with amorphous core
LV power switch:					0 1								Without With
Internal power						0	П		T				Without
supply:						1							With
Communit:							٥		1				Without
			-		-		1		-				With
Medium voltage								0					Without
switchgear:								1					String connection (2-field)
								2					Ring connection (3-field)
Surrounding area:									0				Standard
consolitating area.									1				Protection against chemically active substances
													English
Language:									- 11			ΕN	English

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Romania (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

RO) Version for Romania

## Transformer Compact Station for SC-CP-Inverter (TCS 800SC-RO)

Valid from: as provided	in co	ntra	ct										
TCS 800SC-RO (price before options):	2 R	к О	K ::	×	×	×	×	×	×	o	o	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		C	-										Concrete compact station
Voltage level:			C	•									20 kV
Medium voltage				1									Transformer with iron core
transformer:				2	:								Transformer with amorphous core
LV power switch:					0								Without With
Internal power						0							Without
supply:						1							With
Communit:							0 1						Without With
Medium voltage switchgear:								0 1 2					Without String connection (2-field) Ring connection (3-field)
Surrounding area:									0 1				Standard Protection against chemically active substances

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Romania (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

RO) Version for Romania

## Transformer Compact Station for SC-CP-Inverter (TCS 630SC-RO)

Valid from: as provided	in c	ontro	tor											
TCS 630SC-RO (price before options):	1	RO	×	x	×	×	x	×	x	x	o	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
	_													
Cabinet:		_	0					_						Concrete compact station
Voltage level:		_	_	0										20 kV
Medium voltage					1									Transformer with iron core
transformer:					2									Transformer with amorphous core
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
								0						Without
Communit:								1						With
									0					Without
Medium voltage									1					String connection (2-field)
Medium voltage switchgear:														String connection (2-field) Ring connection (3-field)
									1 2	0 1				String connection (2-field) Ring connection (3-field) Standard Protection against chemically active substances
switchgear:													EN	Ring connection (3-field) Standard

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Romania (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

RO) Version for Romania

## Transformer Compact Station for SC-CP-Inverter (TCS 500SC-RO)

Valid from: as provided	in co	ntrac	ct										
TCS 500SC-RO (price before options):	O R	0 x	x	×	×	×	x	×	×	0	0	xx	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0											Concrete compact station
Voltage level:			0										20 kV
Medium voltage				1									Transformer with iron core
transformer:				2									Transformer with amorphous core
LV power switch:					0 1								Without With
Internal power						0							Without
supply:						1							With
Communit:							0						Without
commonin:			Ĺ				1						With
A								0					Without
Medium voltage								1					String connection (2-field)
switchgear:								2					Ring connection (3-field)
Surrounding area:									0				Standard
Sonroonang area.									1				Protection against chemically active substances
Language:												EN	English
													Romanian

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customerside. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Romania (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

RO) Version for Romania

# Transformer Compact Station for SC-CP inverter (TCS 1600SC-UK)

Valid from: as provided	lin	coni	rac	t										
TCS 1600SC-UK (price before options):	5	UK	×	×	×	×	×	×	×	x	0	0	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	0	_				_						Concrete compact station
Voltage level:				2 6										11 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
transformer:		-		-	_			-					_	Without
LV power switch:						0 1								Without With
Internal power							0							Without
supply:							1							With
Communit:								0						Without
Medium voltage switchgear:								1	0 1 2 3					With Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV Ring connection (3-field) 11 kV, BS/ENA compliant Ring connection (3-field) 33 kV, BS/ENA compliant
Surrounding area:										0 1				Standard Protection against chemically active substances
Language:													EN	English

## Comments

Excl. transport, transport insurance

Prices valid for delivery to UK port

CIF INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer Compact Station for SC-CP inverter (TCS 1250SC-UK)

TCS 1250SCUK (price before options):       4       UK       x	Valid from: as provided	d in c	ont	ract	ł										
Voltage level:       2       1       1       11 kV         Medium voltage transformer:       1       1       1       1       1         LV power switch:       1       0       1       Without With       Without         LV power switch:       1       0       1       Without       Without         supply:       0       1       0       Without       Without         Communit:       0       1       0       Without       Without         Medium voltage switchgear:       0       0       0       Without       Without         Surrounding area:       0       0       0       0       Without       Standard         Protection (3-field) 33 kV, BS/ENA compliant       8       0       0       Nonection (3-field) 33 kV, BS/ENA compliant	(price before	4	UK	x	x	×	×	×	×	x	x	0	0	xx	
Voltage level:       2       1															
Voltage level:       0       33 kV         Medium voltage transformer:       1 <t< td=""><td>Cabinet:</td><td></td><td></td><td>0</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Cabinet:			0	_										
transformer:       I       I       I       I       Imassormer with iron core         LV power switch:       I       I       Imassormer with iron core       Without         Internal power supply:       Imassormer with iron core       Imassormer with iron core       Without         Communit:       Imassormer with iron core       Imassormer with iron core       Without         Medium voltage switchgear:       Imassormer with iron core       Imassormer with iron core         Surrounding area:       Imassormer with iron core       Imassormer with iron core	Voltage level:														
LV power switch:       1       1       1       With         Internal power supply:       0       1       Without         Communit:       0       1       Without         With       1       Vithout         With       Vithout         Weith       Without         Communit:       0       1       Without         Medium voltage switchgear:       0       1       Vithout         Surrounding area:       0       0       0       Standard         Protection against chemically active substances       Standard       Protection against chemically active substances	Medium voltage transformer:					1									Transformer with iron core
Internal power supply:       0       0       1       Without         Communit:       0       1       0       Without         Medium voltage switchgear:       0       0       0       0       Without         Surrounding area:       0       0       0       0       Vithout         Surrounding area:       0       0       0       0       Standard	LV power switch:						1.1								
Communit:       0       1       Without         Medium voltage switchgear:       0       1       0       1         Surrounding area:       0       0       0       1       0         Surrounding area:       0       0       0       0       0							Ė		Ē						Without
Medium voltage switchgear:       Image: String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (2-field) 33 kV Ring connection (3-field) 33 kV Ring connection (3-field) 33 kV Ring connection (3-field) 33 kV         Surrounding area:       Image: String connection (3-field) 11 kV Ring connection (3-field) 33 kV, Ring connect															Without
Surrounding area:										1					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV Ring connection (3-field) 11 kV, BS/ENA compliant
Language: EN English	Surrounding area:														
	Language:													EN	English

## Comments

Excl. transport, transport insurance

Prices valid for delivery to UK port

CIF INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer Compact Station for SC-CP inverter (TCS 1000SC-UK)

Valid from: as provide	d in c	ont	rac	t										
TCS 1000SC-UK (price before options):	3	UK	×	x	×	×	×		K X	×	0	o	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			0											Concrete compact station
Voltage level:				2 6				L						11 kV 33 kV
Medium voltage transformer:					1									Transformer with iron core
LV power switch:						0		ľ	T	L				Without With
Internal power supply:						Ľ	0							Without Without
Communit:						T		(						Without Without
Medium voltage switchgear:									0 1 2 3					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV Ring connection (3-field) 11 kV, BS/ENA compliant Ring connection (3-field) 33 kV, BS/ENA compliant
Surrounding area:										0 1				Standard Protection against chemically active substances
Language:													EN	English

## Comments

Excl. transport, transport insurance

Prices valid for delivery to UK port

CIF INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer Compact Station for SC-CP inverter (TCS 800SC-UK)

Valid from: as provided	d in	con	itrac	ct											
TCS 800SC-UK (price before options):	2	: 01	K ×	×		ĸ	×	×	x	×	x	o	o	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		_	0	-			_	_	_	_			_		Concrete compact station
Voltage level:				2 6											11 kV 33 kV
Medium voltage						1									Transformer with iron core
transformer:				-	-		_	_	_	_		_			146J .
LV power switch:				L			0								Without With
Internal power supply:								0							Without With
Communit:	T	L		Γ		Ī	Ī		0						Without With
Medium voltage switchgear:										0 1 2 3					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 33 kV Ring connection (3-field) 11 kV, BS/ENA compliant Ring connection (3-field) 33 kV, BS/ENA compliant
Surrounding area:											0 1				Standard Protection against chemically active substances
Language:														EN	English

## Comments

Excl. transport, transport insurance

Prices valid for delivery to UK port

CIF INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer Compact Station for SC-CP inverter (TCS 630SC-UK)

Valid from: as provided	l in	сог	ntra	ct											
TCS 630SC-UK (price before options):	1	U	K 3	¢	x	×	x	×	×	. x	×	0	o	xx	The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:			(	)					_						Concrete compact station
Voltage level:		L			0 6										11 kV 33 kV
Medium voltage									Г						Transformer with iron core
transformer:						1									I ransformer with Iron core
LV power switch:							0								Without With
Internal power		t.						0	r						Without
supply:								1							With
Communit:		L							0						Without
Communif:									1						With
Medium voltage switchgear:										0 1 2 3					Without String connection (2-field) 11 kV String connection (2-field) 33 kV Ring connection (3-field) 11 kV Ring connection (3-field) 11 kV, BS/ENA compliant Ring connection (3-field) 33 kV, BS/ENA compliant
Surrounding area:											0				Standard
							_				1		L	-	Protection against chemically active substances
Language:														EN	English

## Comments

Excl. transport, transport insurance

Prices valid for delivery to UK port

CIF INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer Compact Station for SC-CP inverter (TCS 500SC-UK)

'alid from: as provided in contract													
S 500SC-UK rice before tions): 0 UK x x x x x x x x x x 0 0 x The compact station comes with an oil-hermetic transformer for 11 kV (33 kV), vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.													
binet: 0 0 Concrete compact station													
ltage level:													
edium voltage													
insformer:													
power switch:													
ernal power 0 0 0 Without With													
ppy-													
mmunit:													
edium voltage itchgear:													
rrounding area: 0 1 Standard Protection against chemically active substances													
nguage:													
nyonyo.													

## Comments

Excl. transport, transport insurance

Prices valid for delivery to UK port

CIF INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP inverter (TCS 1800SC-EX)

Valid from: as provided	'alid from: as provided in contract													
TCS 1800SC-EX (price before options):	x	×	×	1	×	×	×	×	×	x	×	x	x	The compact station in accordance with IEC 62271-202, incl. oil hermetical medium-voltage transformer for 20 kV, is licensed for operation at ambient temperatures ranging from -20 °C to 45 °C.
Cabinet:	1													Steel compact station
Voltage level:		0 1 2 3 4 8 9 A B C												20 kV 10 kV 11 kV 15 kV 22 kV 6,6 kV 12 kV 13,2 kV 23 kV
Power frequency:			0 1											50 Hz 60 Hz
Transformer vector group:					1 3									Dy11y11 YNd11d11
LV power switch:						0								Without With
Internal power supply:							0							Without With
Communit:								0						Without With
Medium voltage switchgear:									0 1 2 3					Without String connection (2-field) Ring connection (3-field) Ring connection (3-field) with circuit breaker
Surrounding area:										0 1				Standard Protection against chemically active substances
Ambient temperature:											0 1			Standard +50°C
Installation altitude:												0 1		0 - 2000m 2000 - 4000m
Language:													FR ES	English French Spanish German

### Comments

FOB (Incoterms® 2010), German harbor

We will gladly handle the transportation to the destination port for you. The costs of this will be charged separately.

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP inverter (TCS 1600SC-EX)

Valid from: as provided	alid from: as provided in contract													
TCS 1600SC-EX (price before options):	x	×	×	1	x	x	x	x	×	x	×	×	x	The compact station in accordance with IEC 62271-202, incl. oil hermetical medium-voltage transformer for 20 kV, is licensed for operation at ambient temperatures ranging from -20 °C to 45 °C.
Cabinet:	1													Steel compact station
Voltage level:		0 1 2 3 4 8 9 A B C												20 kV 10 kV 11 kV 15 kV 22 kV 6,6 kV 12 kV 13,2 kV 13,8 kV 23 kV
Power frequency:			0 1											50 Hz 60 Hz
Transformer vector group:					1 3									Dy11y11 YNd11d11
LV power switch:						0 1								Without With
Internal power supply:							0							Without With
Communit:								0 1						Without With
Medium voltage switchgear:									0 1 2 3					Without String connection (2-field) Ring connection (3-field) Ring connection (3-field) with circuit breaker
Surrounding area:										0 1				Standard Protection against chemically active substances
Ambient temperature:											0 1			Standard +50°C
Installation altitude:												0 1		0 - 2000m 2000 - 4000m
Language:													FR ES	English French Spanish German

### Comments

FOB (Incoterms® 2010), German harbor

We will gladly handle the transportation to the destination port for you. The costs of this will be charged separately.

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP inverter (TCS 900SC-EX)

Valid from: as provided	'alid from: as provided in contract														
TCS 900SC-EX (price before options):	×	×	×	1	×		K :	×	x	x	x	< 2	ĸ		The compact station in accordance with IEC 62271-202, incl. oil hermetical medium-voltage transformer for 20 kV, is licensed for operation at ambient temperatures ranging from -20 °C to 45 °C.
														_	
Cabinet:	1				_	Ļ.	-	_	_		-	-	-		Steel compact station
Voltage level:		0 1 2 3 4 8 9 A B C													20 kV 10 kV 11 kV 13 kV 22 kV 6,6 kV 12 kV 13,2 kV 23 kV
Power frequency:			0 1												50 Hz 60 Hz
Transformer vector					1										Dy11y11
group:					3	_									YNd11d11
LV power switch:						1	) 1								Without With
Internal power								0							Without
supply:								1							With
Communit:									0 1						Without With
Medium voltage switchgear:										0 1 2 3					Without String connection (2-field) Ring connection (3-field) Ring connection (3-field) with circuit breaker
Surrounding area:											0				Standard Protection against chemically active substances
Ambient temperature:												)			Standard +50°C
Installation altitude:													D 1		0 - 2000m 2000 - 4000m
Language:													1	EN FR ES	English French Spanish German

### Comments

FOB (Incoterms® 2010), German harbor

We will gladly handle the transportation to the destination port for you. The costs of this will be charged separately.

Depending on country-specific requirements the price and technical parameters can vary.

## Transformer Compact Station for SC-CP inverter (TCS 800SC-EX)

Valid from: as provided	in (	cont	trac	t										
TCS 800SC-EX (price before options):	×	×	×	1	×		¢ :	×	x	x	د x		: >	The compact station in accordance with IEC 62271-202, incl. oil hermetical medium-voltage transformer for 20 kV, is licensed for operation at ambient temperatures ranging from -20 °C to 45 °C.
Cabinet:	1			-	_	Ļ.	-	_	-			Ļ.	-	Steel compact station
Voltage level:		0 1 2 3 4 8 9 A B C												20 kV 10 kV 11 kV 15 kV 22 kV 6,6 kV 12 kV 13,2 kV 23 kV
Power frequency:			0 1											50 Hz 60 Hz
Transformer vector					1									Dy11y11
group:					3	_			_					YNd11d11
LV power switch:						1								Without With
Internal power								0						Without
supply:								1						With
Communit:									0 1					Without With
Medium voltage switchgear:										0 1 2 3				Without String connection (2-field) Ring connection (3-field) Ring connection (3-field) with circuit breaker
Surrounding area:											0			Standard Protection against chemically active substances
Ambient temperature:											1			Standard +50°C
Installation altitude:												0		0 - 2000m 2000 - 4000m
Language:													FI	N English R French IS Spanish DE German

### Comments

FOB (Incoterms® 2010), German harbor

We will gladly handle the transportation to the destination port for you. The costs of this will be charged separately.

Depending on country-specific requirements the price and technical parameters can vary.

# Transformer for SC-CP inverter (Transformer 1800kVA)

Valid from: as provided	in (	cont	trac	t							
Transformer 1800kVA (price before options):	7	×	×	×		ĸ	x	×	xx		Liquid-immersed three-phase transformator 1800 kVA in accordance with IEC 60076, licensed for operation at ambient temperatures ranging from -25 °C to 40 °C, nominal power 1800 kVA / 2 x 900 kVA, transmission ratio 20 kV / 0.405 kV, vector group Dy11y11, cooling method ONAN
Voltage level:		0 1 2 3 4 5 6 7 8 9 A 8 0 C D E F									20 kV 10 kV 11 kV 15 kV 22 kV 30 kV 33 kV 33 kV 4,6 kV 13,2 kV 13,8 kV 24,94 kV 31,5 kV 34,5 kV
Power frequency:			0 1								50 Hz 60 Hz
Cooling method:				0							ONAN KNAN
Transformer vector		F		Ľ	1	1	1				Dy11y11
group:						3					YNd11d11
Mounting location:							0				For indoor installation For outdoor installation
Surrounding area:		Ē		ľ	T		1	0			Standard
				Γ	T		1		0		Standard
Ambient									1		+50°C
temperature:									2		+55°C
Installation altitude:									0		0 - 2000m 2000 - 4000m
Language:										F	English French Spanish German

### Comments

FOB (Incoterms® 2010), German harbor

# Transformer for SC-CP inverter (Transformer 1600kVA)

Valid from: as provided	in d	cont	rac	t							
Transformer 1600kVA (price before options):	7	×	x	x	x	×	×	x	×	x	Liquid-immersed three-phase transformator 1600 kVA in accordance with IEC 60076, licensed for operation at ambient temperatures ranging from -25 °C to 40 °C, nominal power 1600 kVA / 2 x 800 kVA, transmission ratio 20 kV / 0.360 kV, vector group Dy11y11, cooling method ONAN
Voltage level:		0 1 2 3 4 5 6 7 8 9 A B C D E F									20 kV 10 kV 11 kV 15 kV 22 kV 30 kV 33 kV 33 kV 4,6 kV 13,2 kV 13,2 kV 13,8 kV 24,94 kV 31,5 kV 34,5 kV
Power frequency:			0 1								50 Hz 60 Hz
Cooling method:				0 1							ONAN KNAN
Transformer vector					1			H			Dy11y11
group:					3						YNd11d11
Mounting location:						0					For indoor installation For outdoor installation
Surrounding area:		ľ		İ			0	H			Standard
								0			Standard
Ambient								1			+50°C
temperature:								2			+55°℃
Installation altitude:									0 1		0 - 2000m 2000 - 4000m
Language:										EN FR ES	English French Spanish German

### Comments

FOB (Incoterms® 2010), German harbor

# Transformer for SC-CP inverter (Transformer 900kVA)

Valid from: as provided	in c	ont	ract	ł								
Transformer 900kVA (price before options):	7	x	x	x	х		¢ ::	×	x	×	Liquid-immersed three-phase transformator 900 kVA in accordance with IEC 60076, licensed for operation at ambie temperatures ranging from -25 °C to 40 °C, nominal power 900 kVA, transmission ratio 20 kV / 0.405 kV, vector group Dy11, cooling method ONAN	
Voltage level:		0 1 2 3 4 5 6 7 8 9 A B C D E F									20 kV 10 kV 11 kV 15 kV 22 kV 30 kV 33 kV 33 kV 35 kV 6,6 kV 13,2 kV 13,2 kV 13,8 kV 23 kV 24,94 kV 31,5 kV	
Power frequency:			0 1								50 Hz 60 Hz	
Cooling method:				0 1							ONAN KNAN	
Transformer vector					0 2				1		Dy11 Ynd11	
group:		-		⊢		0	+		-	-	YNd I I For indoor installation	
Mounting location:						1	L				For outdoor installation	
Surrounding area:							1	0	_		Standard	
Ambient temperature:									0 1 2		Standard +50°C +55°C	
Installation altitude:									_	0 1	0 - 2000m 2000 - 4000m	
Language:										F	French Spanish German	

### Comments

FOB (Incoterms® 2010), German harbor

# Transformer for SC-CP inverter (Transformer 800kVA)

Valid from: as provided	in c	ont	rac	t								
Transformer 800kVA (price before options):	7	x	x	x	: >	ĸ	×	×	×	×	×	Liquid-immersed three-phase transformator 800 kVA in accordance with IEC 60076, licensed for operation at ambient temperatures ranging from -25 °C to 40 °C, nominal power 800 kVA, transmission ratio 20 kV / 0.360 kV, vector group Dy11, cooling method ONAN
Voltage level:		0 1 2 3 4 5 6 7 8 9 A B C D E F										20 kV 10 kV 11 kV 15 kV 22 kV 30 kV 33 kV 33 kV 35 kV 6,6 kV 12 kV 13,2 kV 13,8 kV 23 kV 24,94 kV 31,5 kV 34,5 kV
Power frequency:			0									50 Hz 60 Hz
Cooling method:				0								ONAN KNAN
Transformer vector				Ľ	_	D						Dy11
group:						2						YNd11
Mounting location:							0					For indoor installation For outdoor installation
Surrounding area:				F				0			1	Standard
Ambient				Γ					0			Standard
temperature:									1			+50°C
iemperatore.									2			+55°C
Installation altitude:										0 1		0 - 2000m 2000 - 4000m
Language:											FR ES	English French Spanish German

### Comments

FOB (Incoterms® 2010), German harbor



Sunny Central Accessories

SC-XXX-CP-KIT-SMB	The SMB connection kit is part of the accessories to connect the Sunny Main Box to the following inverters:
	SC 900CP-10
	SC 850CP-10
	SC 800CP-10
	SC 760CP-10
	SC 720CP-10
	SC 630CP-10
	SC 500CP-10 The busbar enables the connection of up to 4 DC cables.
65-99006109	Concrete base for inverters (Country DE, UK):
	SC 900CP-10
	SC 850CP-10
	SC 800CP-10
	SC 760CP-10 SC 720CP-10
	SC 630CP-10
	SC 500CP-10
65-99004111	Steel base for inverters (Country DE, GR):
	SC 900CP-10
	SC 850CP-10 SC 800CP-10
	SC 760CP-10
	SC 720CP-10
	SC 630CP-10
	SC 500CP-10
(5.00000101	
65-99003121	Concrete base for inverters (Country IT, GR): SC 900CP-10
	SC 850CP-10
	SC 800CP-10
	SC 760CP-10
	SC 720CP-10
	SC 630CP-10 SC 500CP-10
65-99005109	Concrete base for inverters (Country FR):
	SC 900CP-10
	SC 850CP-10
	SC 800CP-10
	SC 760CP-10 SC 720CP-10
	SC 630CP-10
	SC 500CP-10
65-99004122	Concrete base for inverters (Country DE, CZ):
	SC 900CP-10
	SC 850CP-10
	SC 800CP-10 SC 760CP-10
	SC 720CP-10
	SC 630CP-10
	SC 500CP-10
65-99007109	Concrete base for inverters (Country BG, RO, GR):
	SC 900CP-10
	SC 850CP-10 SC 800CP-10
	SC 760CP-10
	SC 720CP-10
	SC 630CP-10 SC 500CP-10
65-1519910010	Concrete base for inverters (Country ES):
	SC 900CP-10 SC 850CP-10
	SC 800CP-10
	SC 760CP-10
	SC 720CP-10
	SC 630CP-10 SC 500CP-10
65-1519910011	Concrete base for inverters (Country AU):
50.017710011	SC 900CP-10
	SC 850CP-10
	SC 800CP-10
	SC 760CP-10
	SC 720CP-10 SC 630CP-10
	SC 500CP-10

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41-5326	Cable set 5 m for TCS-SC (Countries DE, IT, FR, ES, CZ, BG, RO, GR)
41-5327	Cable set 7,5 m for TCS-SC (Countries DE, IT, FR, ES, CZ, BG, RO, GR)
41-5328	Cable set 10 m for TCS-SC (Countries DE, IT, FR, ES, CZ, BG, RO, GR)
41-5329	Cable set 1.5 m for TCS-SC (Countries DE, IT, FR, ES, CZ, BG, RO, GR)
95-7319	Cable set 10 m for TCS-SC (Country AU)
95-7320	Cable set 15 m for TCS-SC (Country AU)
41-5336	5-meter cable set for TCS-SC (IEC/EN Standard)
41-5337	7.5-meter cable set for TCS-SC (IEC/EN Standard)
41-5338	10-meter cable set for TCS-SC (IEC/EN Standard)
41-5339	15-meter cable set for TCS-SC (IEC/EN Standard)



SMA Solar Technology AG

**Stations and Transformers** 

## Concrete station 1600MV-20 incl. transformer (SC 1600MV-20)

Valid from: as provided	/alid from: as provided in contract													
SC 1600MV-20 (price before options):	5	DE	. 0	×	x	x	x	x	x	0	x	x	xx	Concrete station consisting of a walk-in multi-room station, with separate doors; dimensions and weights according to the station drawing; divided into: low voltage room prepared for installation of two inverters from production series SCxxxCP-10 (optional station installation), MS transformer room incl. a 1 600 kVA - 20/2*0.315-0.360 kV oil-hermetic transformer (other voltage levels optional), switch group Dy11y11; completely installed.
Voltage level:				0										20 kV
Medium voltage					1									Transformer with iron core
transformer:		_		_	2									Transformer with amorphous core
Internal power						0								Without
supply:	_	-	_	_		1	_				_		_	With
Communit:							0							Without
		-		⊢		-							_	With Without
Medium voltage								0 1						Without String connection (2-field)
switchgear:								2						String connection (3-field) Ring connection (3-field)
		H		⊢		┝		-	0				-	Standard
Surrounding area:									1					Protection against chemically active substances
				H		-					с			SC 720CP-10
Inverter 1:											D			SC 760CP-10
											E			SC 800CP-10
		Ē		L		F						с		SC 720CP-10
Inverter 2:												D		SC 760CP-10
												E		SC 800CP-10
Language:													DE	German
Lunguage:													EN	English

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Concrete station 1250MV-20 incl. transformer (SC 1250MV-20)

	ontre	act											
SC 1250MV-20 (price before options):	DE		x	×	x	×	×	x	o	x	x	xx	Concrete station consisting of a walk-in multi-room station, with separate doors; dimensions and weights according to the station drawing; divided into: low voltage room prepared for installation of two inverters from production series SCxxxCP-10 (optional station installation), MS transformer room incl. a 1 260 kVA - 20/2*0.315 kV oil-hermetic transformer (other voltage levels optional), switch group Dy11y11; completely installed.
Voltage level:			0										20 kV
Medium voltage				1									Transformer with iron core
transformer:				2									Transformer with amorphous core
Internal power					0								Without
supply:					1								With
Communit:			1		1	0							Without
						1							With
Medium voltage							0						Without
switchgear:							1						String connection (2-field)
swiichgeur:							2						Ring connection (3-field)
c								0					Standard
Surrounding area:								1					Protection against chemically active substances
Inverter 1:										В			SC 630CP-10
Inverter 2:											В		SC 630CP-10
												DE	German
Language:													English

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

## Concrete station 1000MV-20 incl. transformer (SC 1000MV-20)

Valid from: as provided	l in c	ont	rac	t											
SC 1000MV-20 (price before options):		DE			×	x	×	x	×	x	o	x	×	xx	Concrete station consisting of a walk-in multi-room station with separate doors; dimensions and weights according to the station drawing; divided into: low voltage room prepared for installation of two inverters from production series SCxxxCP-10 (optional station installation), MS transformer room incl. a 1 000 kVA - 20/2*0.270 kV oil-hermetic transformer (other voltage levels optional), switch group Dy11y11; completely installed.
	-							_							
Voltage level:		_		(	D										20 kV
Medium voltage transformer:						1 2									Transformer with iron core Transformer with amorphous core
Internal power		t-	t			-	0		-	-	-				Without
supply:							1								With
							·	0	┢		⊢				Without
Communit:								1							With
									0		⊢				Without
Medium voltage									ľ						String connection (2-field)
switchgear:									2						Ring connection (3-field)
			t						Ľ.	0				F	Standard
Surrounding area:										1					Protection against chemically active substances
Inverter 1:		r	t		1				h		F	A	L	T	SC 500CP-10
Inverter 2:			T										A		SC 500CP-10
														DE	German
Language:														E٨	English
									L						Tanôna.

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

### Concrete station 800MV-20 incl. transformer (SC 800MV-20)

Medium voltage transformer:       1       1       Transformer with iron core Transformer with amorphous core         Internal power supply:       0       1       Without With         Communit:       0       1       Without 1	Valid from: as provided	l in c	ontr	ract	ł										
Medium voltage transformer:       1       2       Image of the second	(price before	2	DE	0	×	×	×	x	x	x	0	×	x	xx	according to the station drawing; divided into: low voltage room prepared for installation of one inverter from production series SCxxxCP-10 (optional station installation), MS transformer room incl. a 800 kVA - 20/0.315-0.360 kV oil-hermetic transformer
Medium voltage transformer:       1       2       Image 1       1       Image 1       Image 1 <thimage 1       Image 1       Image 1       Image 1</thimage 															
transformer:       I <thi< th="">       I       I       <thi< th=""> <thi< td=""><td>Voltage level:</td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thi<></thi<></thi<>	Voltage level:				0										
Internal power       0       0       1       0       1       0															
supply:       I       I       I       Vih         Communit:       I       I       I       I       Vih         Medium voltage switchgear:       I       I       I       I       Vih         Surrounding area:       I       I       I       I       I       Vih         Inverter 1:       I       I       I       I       I       Vihout         Inverter 2:       I       I       I       I       I       I       I         Inverter 2:       I       I       I       I       I       I       I       I						2	_								
Communit:       0       0       1       Without         Medium voltage switchgear:       0       1       2       Without         Surrounding area:       0       1       2       Standard Protection against chemically active substances         Inverter 1:       0       0       0       C       SC 720CP-10 SC 760CP-10         Inverter 2:       0       0       0       0       Without         Inverter 2:       0       0       0       Without	•														
Communit:       I       I       I       Vith         Medium voltage switchgear:       I       I       I       I       Vith         Surrounding area:       I <thi< th=""> <thi< <="" td=""><td>supply:</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thi<></thi<>	supply:						1								
Medium voltage switchgear:       I	Communit:														
Medium voltage switchgear:       I       I       I       I       String connection (2-field) Ring connection (3-field)         Surrounding area:       I       I       I       I       Standard Protection against chemically active substances         Inverter 1:       I       I       I       I       I       I       I         Inverter 2:       I       I       I       I       I       I       I         Inverter 2:       I       I       I       I       I       I       I       I         Inverter 2:       I <t< td=""><td>-</td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td>1</td><td>_</td><td></td><td><math>\square</math></td><td></td><td></td><td></td><td></td></t<>	-		-		-			1	_		$\square$				
switchgear:       1       1       String connection (2-field)         Surrounding area:       0       1       Standard         Inverter 1:       0       0       0       SC 720CP-10         Inverter 2:       0       0       SC 700CP-10         Inverter 2:       0       0       0         Inverter 2:       0       0       0         Inverter 2:       0       0       DE         German       0       Without	Medium voltage														
Surrounding area:       0       0       0       Standard         Inverter 1:       0       0       0       Standard         Inverter 2:       0       0       C       SC 760CP-10         Inverter 2:       0       0       0       Vihout         Inverter 2:       0       0       Vihout															
Surrounding area:       1       1       Protection against chemically active substances         Inverter 1:       2       2       2       2       5       C 20CP-10         Inverter 2:       2       2       2       0       Vithout         Inverter 2:       2       2       0       Vithout	-		-	-	-	-	-	H	2	-	$\vdash$			-	
Inverter 1:         c         SC 720CP-10           D         SC 760CP-10           E         SC 800CP-10           Inverter 2:         o         Without           December         German	Surrounding area:														
Inverter 1:         Image: Constraint of the state			H		H		⊢		-	-	$\vdash$	6	_	-	
Inverter 2:         E         SC 800CP-10           Inverter 2:         Image: Second s	Invertor 1														
Inverter 2:         Image: Constraint of the state															
Learning and the second s	Inverter 2:										H	-	0		
											H		-	DE	
	Language:														

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

### CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

### Concrete station 630MV-20 incl. transformer (SC 630MV-20)

SC 630MV-20 (price before options):	1	DE	o	×	×	×		x	×	o	×	x	xx	Concrete station consisting of a walk-in multi-room station, with separate doors; dimensions and weights according to the station drawing; divided into: low voltage room prepared for installation of one inverter from production series SCxxxCP-10 (optional station installation), MS transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetic transformer (other voltage levels optional), switch group Dy11; completely installed.
	-	-		0	-	+	T	-	-			_	_	20 kV
Voltage level: Medium voltage	_	-	-	10	1	÷	-	+-	-				_	ZU KV Transformer with iron core
meaium voitage transformer:					2									Transformer with amorphous core
Internal power		⊢	F	⊢	- 2	0			F	$\vdash$	_	-	$\vdash$	Without
supply:						ľ								With
				F		Ľ	0			$\vdash$		-		Without
Communit:							1							With
		F		F		t	T.	0				-		Without
Medium voltage								1						String connection (2-field)
switchgear:								2						Ring connection (3-field)
		F		F		t		Ē	0			-		Standard
Surrounding area:									1					Protection against chemically active substances
nverter 1:				F					F		в			SC 630CP-10
nverter 2:				Ĺ								0		Without
		Γ	F	L									DE	German
Language:														

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

### Concrete station 500MV-20 incl. transformer (SC 500MV-20)

Valid from: as provided	l in co	ontr	act												
SC 500MV-20 (price before options):	o	DE	0	×	×		: >	¢ .	ĸ »	×	0	×	×	xx	Concrete station consisting of a walk-in multi-room station, with separate doors; dimensions and weights according to the station drawing; divided into: low voltage room prepared for installation of one inverter from production series SCxxxCP-10 (optional station installation), MS transformer room incl. a 500 kVA - 20/0.270 kV oil-hermetic transformer (other voltage levels optional), switch group Dy11; completely installed.
	-						-			_					
Voltage level:	_			0	_	-	_	-		_	_	_			20 kV
Medium voltage transformer:					1										Transformer with iron core Transformer with amorphous core
Internal power			_	H	2	o						-		_	Without
supply:															With
		-		F		Ľ	0	2							Without
Communit:							1								With
A.A. IV. IV.				F	T	T		1	5						Without
Medium voltage									1						String connection (2-field)
switchgear:									2						Ring connection (3-field)
							T		c	D					Standard
c I.									1	1					Protection against chemically active substances
Surrounding area:												в			SC 500CP-10
Surrounding area: Inverter 1:														_	
-													0		Without
Inverter 1:															Without German English

### Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

## CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.



Sunny Central System Technology

## Sunny Main Box (SMB)

Valid from: as provided	in co	ntro	act		
SMB (price before options):	×	x	x	x	Main DC-distribution with fuses for the single-pole connection of up to 8 Sunny String Monitors, weatherproof housing for outdoor use, up to 8 NH-fuses, cables are lead into the enclosure with metric cable glands.
Device type:	0				1 x 8 Inputs (max. 160 A)
DC connection:		0 1			14 - 28 mm (3 x M40 cable screw connection) 27 - 36 mm (2 x M50 cable screw connection)
Fuses:			0 1 2 3		80 A 100 A 125 A 160 A
Language:				0 1 2 3 4 5 6 8	German English Spanish Korean Italian French Chinese Czech Greek

## Sunny Main Box Cabinet (SMB-C)

Valid from: as provided	in co	ontr	act		
SMB-C (price before options):	×	×	×	×	Main DC-distribution (standing cabinet) with fuses for both polarities for the connection of up to 8 Sunny String Monitors, weatherproof housing for the external units, separate access via door for each potential, doors with triple locks and swing arm lock for profile half cylinder (can be supplied on site).
	0				2 x 8 inputs (max. 160 A)
Device type:	1				2 x (2 x 3) inputs (max. 200 A)
	2				2 x (2 x 4) inputs (max. 160 A)
		0			Fuses in plus and minus
		1			Fuses in plus, isolating blades in minus
DC connection:					
		2			Fuses in minus, isolating blades in plus
			0		A 08
			1		100 A
Fuses:			2		125 A
			3		160 A
			4	_	200 A
					German
					English
					Spanish
					Korean
Language:					Italian
					French
					Chinese
					Czech
				9	Greek



## Sunny String Monitor (SSM)

Valid from: as provided	in co	onti	rac	t		
SSM (price before options):	x	×	×	×	х	DC distribution with 8 current sensors and fuses for both polarities, incl. thermally monitored overvoltage protection. Optional connection via spring type clamp or SUNCLIX, optional switch-disconnector for output, weatherproof enclosure for outdoor use, communication unit RS485 for data transmission and evaluation with Sunny Central inverters.
Device type:	0 1 2					insulated Negative ground connection Positive ground connection
DC switch:		0 1 2 3				no Yes, without remote disconnection Yes, incl. remote disconnection via undervoltage release Yes, incl. remote disconnection via shunt trip
String connection:			4 5 6 9 A 8			2 x 16 screw connection (5 mm) 2 x 16 screw connection (7 mm) 2 x 16 screw connection (9 mm) Without 2 x 8 SUNCLIX 2 x 16 SUNCLIX
String fuse:				0 1 2 3 4 5		10 A (1000 V DC) 12 A (1000 V DC) 16 A (1000 V DC) 20 A (1000 V DC) 25 A (900 V DC) 25 A (1000 V DC)
Language:					1 2 3 4 5 6 7	German English Spanish Korean Italian French Cchinese Polish Czech

#### SMA String Combiner (SSC-10)

Valid from: as provided in contract								
SSC-10 (price before options):	×	x	×	x	x	x	x	DC distribution board with 12 fuses for both polarities, incl. DC switch. Optimized for use with central inverters that are equipped with Optiprotect string failure detection.
	0					Γ		insulated
Version:	1							Negative ground connection
	2							Positive ground connection
		0						10 A (1000 V DC)
		1						12 A (1000 V DC)
String fuse:		2						15 A (1000 V DC)
<b>J</b>		3						20 A (1000 V DC)
		9						Without
			0					DC switch without remote disconnection
DC switch:			1					DC switch incl. remote disconnection via undervoltage release
				0				Single cable glands
				1				Double cable glands
String connection:				2				Single SUNCLIX
				3				Double SUNCLIX
					0			Without
					1			5.0 to 5.5 mm
Cable glands with					2			5.6 to 6.0 mm
sealing area:					3			6.1 to 7.0 mm
					4			7.1 to 8.0 mm
					5			8.1 to 9.0 mm
						0		Without
Surge Arrester:						ľ		Typ 2
		-		F		Ė		German
								English
								Spanish
								Korean
								Italian
								French
Language:								Chinese
								Polish
								Czech
								Greek
								Portuguese
								Dutch
		<u> </u>				<u> </u>	N	

#### Sunny String Monitor SSM8-21

Valid from: as provided	in co	ntra	ct							
SSM8-21 (price before options):	×	x	x	x	x	x	x	x		DC distribution board with 8 current sensors and optional fuses for both polarities, thermally monitored overvoltage protection and DC switch. String current measurement of all 8 channels incl. RS485 communication unit for data transmission and data evaluation in Sunny Central.
Cabinet:	0									Wall mounting
	1	-	_							Enclosure with base
Version:		0								insulated Negative ground connection
version:		2								Positive ground connection
		_	0							8/8
			1							16/8
Number of			2							24/8
strings/fuses:			3							16/16
(per pole)			4							32/16
4 · · · · ·			6							24/24
			8 9							32/32 48/48
			7	0						Kabelverschr. 5,0 bis 5,5 mm
				1						Cable glands/ 5.6 to 6.0 mm
				2						Cable glands/ 6.1 to 7.0 mm
				3						Cable glands/ 7.1 to 8.0 mm
String input:*				4						Cable glands/ 8.1 to 9.0 mm
				5						Cable glands/ 9.1 to 10.0 mm
				6 7						Sunclix 6 mm² Sunclix 16mm²
				, 9						open base plate 1)
				7	0					6 A (1000 V)
					1					8 A (1000 V)
					2					10 A (1000 V)
					3					12 A (1000 V)
String fuse:**					4					15 A (1000 V)
					5					20 A (1000 V)
					6 7					25 A (1000 V) 30 A (1000 V)
					, 9					Without fuses
		1				0		-		Without
						1				200 A
DC switch:						3				200 A incl. signal contact
						5				200 A incl. remote disconnection via undervoltage release
		+				-	0			
Surge Arrester:							0 2			Without Type 2
							3			Type 1+2
								0		Busbar single
DC output:								1		Busbar double
De obipoli								2		Cage clamp single
		4				┣		3		Cage clamp double
										German English
										English Spanish
										Korean
									т	Italian
									FR	French
Language:										Chinese
										Polish
										Czech
										Greek
										Portuguese Dutch
									JP	Japanese
				L						итр

\*Price per strings \*\*Price per fuse

1) Only for enclosure with socket, no plug connectors or cable glands

#### Sunny String Monitor SSM16-21

Valid from: as provide	ed in c	onti	ract							
SSM16-21 (price before options):	×	×	×	×	×	×	×	×	xx	DC distribution board with 16 current sensors and optional fuses for both polarities, thermally monitored overvoltage protection and DC switch. String current measurement of all 16 channels incl. RS485 communication unit for data transmission and data evaluation in Sunny Central.
Cabinet:	0									Wall mounting
	1	0				H		H		Enclosure with base
Version:		1						Ŀ		Negative ground connection
		2								Positive ground connection
			3					Ŀ		16/16
Number of			4					Ŀ		32/16
strings/fuses: (per pole)			5 8					Ŀ		48/16 32/32
(per pore)			9							48/48
		t		0		t		F		Kabelverschr. 5,0 bis 5,5 mm
				1						Cable glands/ 5.6 to 6.0 mm
				2				Ŀ		Cable glands/ 6.1 to 7.0 mm
c. · · · · *				3				Ŀ		Cable glands/ 7.1 to 8.0 mm
String input:*				4				Ŀ		Cable glands/ 8.1 to 9.0 mm Cable glands/ 9.1 to 10.0 mm
				6				Ŀ		Sunclix 6 mm <sup>2</sup>
				7				Ŀ		Sunclix 16mm <sup>2</sup>
				9						open base plate 1)
					0			Ŀ		6 A (1000 V)
					1			Ŀ		8 A (1000 V)
					2 3					10 A (1000 V) 12 A (1000 V)
String fuse:* *					4			Ŀ		15 A (1000 V)
					5			Ŀ		20 A (1000 V)
					6			Ŀ		25 A (1000 V)
					7					30 A (1000 V)
	-	-		_	9		_	-		Without fuses
						0				Without 200 A
						2				280 A
DC switch:						3				200 A incl. signal contact
DC switch:						4				280 A incl. signal contact
						5				200 A incl. remote disconnection via undervoltage release
						6				
						ľ				280 A incl. remote disconnection via undervoltage release
		Γ		Γ		ſ	0			Without
Surge Arrester:							2			Type 2
	_	⊢		$\vdash$		⊢	3	0		Type 1+2 Busbar single
						1		1		Busbar single Busbar double
DC output:								2		Cage clamp single
								3		Cage clamp double
		Γ		[		Γ		Γ		German
						1				English
						1				Spanish Korean
		1						1		Italian
						1				French
Language:						1			CN	Chinese
						1				Polish
		1						1		Czech
						1				Greek Portuguese
		1						1	NL	Dutch
		L								Japanese
_										

\*Price per strings \*\*Price per fuse 1) Only for enclosure with socket, no plug connectors or cable glands

#### Sunny String Monitor SSM24-21

Valid from: as provided	Valid from: as provided in contract									
SSM24-21 (price before options):	×	x	x	x	x	×	×	×	xx	DC distribution board with 24 current sensors and optional fuses for both polarities, thermally monitored overvoltage protection and DC switch. String current measurement of all 24 channels incl. RS485 communication unit for data transmission and data evaluation in Sunny Central.
							T	t		
Cabinet:	0									Wall mounting
	1						_	-	_	Enclosure with base
Version:		0 1								insulated Negative ground connection
version.		2								Positive ground connection
Number of			6							24/24
strings/fuses:			7							48/24
(per pole)			9	-						48/48
String input:*				0 1 2 3 4 5 6 7 9						Kabelverschr. 5,0 bis 5,5 mm Cable glands/ 5.6 to 6.0 mm Cable glands/ 6.1 to 7.0 mm Cable glands/ 7.1 to 8.0 mm Cable glands/ 8.1 to 9.0 mm Cable glands/ 9.1 to 10.0 mm Sunclix 6 mm <sup>2</sup> Sunclix 16mm <sup>2</sup> Open base plate 1)
String fuse:**					0 1 2 3 4 5 6 7 9					6 A (1000 V) 8 A (1000 V) 10 A (1000 V) 12 A (1000 V) 15 A (1000 V) 20 A (1000 V) 25 A (1000 V) 30 A (1000 V) Wilhout fuses
DC switch:						0 1 2 3 4 5 6				Without 200 A 280 A 200 A incl. signal contact 280 A incl. remote disconnection via undervoltage release 280 A incl. remote disconnection via undervoltage release
Surge Arrester:							0 2 3			Without Type 2 Type 1+2
DC output:								0 1 2 3		Busbar single Busbar double Cage clamp single Cage clamp double
Language:									EN ES KR IT FR CN PL CZ GR PT NL	German English Spanish Korean Italian French Chinese Polish Czech Greek Portuguese Dutch Japanese

\*Price per strings \*\*Price per fuse 1) Only for enclosure with socket, no plug connectors or cable glands

#### Communit

Valid from: as provided in contract											
Communit-10	×		¢	×	x	x	x	x	×	xx	Communication distribution box for up to 7 communication components, incl. 24 V power supply for connection to 100 240 V AC, 45 65 Hz.
Cabinet:	0 1 2 3										Wall mounting Base Mounting Mast mounting Mounting in a station
Installation location 1		1 1 2 2	2								Without WebBox Ethernet WebBox RS485 Power Reducer Box
Installation location 2				0 1 2 3 4							Without WebBox Ethernet WebBox RS485 WebBox + SensorBox <sup>*1</sup> Power Reducer Box
Installation location 3					0 1 2 3 7						Without WebBox Ethernet WebBox RS485 WebBox + SensorBox <sup>*1</sup> Customer installation location
Network installation location 4						0 1 2 3 B C D F					Without Switch 8 TX Switch 2 FX-M (SC) 8 TX Switch 2 FX-S (SC) 8 TX Switch 2 FX-M (SC) 6 TX MNG Switch 2 FX-M (SC) 14 TX MNG Switch 2 FX-M (SC) 14 TX MNG
Network installation location 5							0 1 2 3 B C D F				Without Switch 8 TX Switch 2 FX-M (SC) 8 TX Switch 2 FX-S (SC) 8 TX Switch 2 FX-M (SC) 6 TX MNG Switch 2 FX-S (SC) 6 TX MNG Switch 2 FX-M (SC) 14 TX MNG Switch 2 FX-S (SC) 14 TX MNG
Router:							0 1 2				Without Ethernet UMTS/GSM/GPRS**
Power Supply:								0 2			Power supply unit, redundant Power supply unit redundant, buffered
Patch panel:		Ī	Ī	Ī					0 4		no Optical fiber splice box SC
Language:										DE EN ES KR IT FR CN PL CZ GR PT NL	German English Spanish Korean Italian French Chinese Polish Czech Greek Portuguese Dutch Japanese

#### Comments

\*1 It is not possible to combine options. Only option 3/3 or 4/3 can be selected. \*\* not to be used in Japan

**GSM-UMTS-OUTAN** Antenna with a 5 m cable and an SMA plug for GSM and UMTS

## Communication





#### Sunny Home Manager with Bluetooth® (HM-BT-10)

Valid from: as	provided in contract

HM-BT-10 (price before options):	x	x	Sunny Home Manager with Bluetooth® - wireless plant monitoring and intelligent energy management
Power supply:	1		with power supply
		1	Germany , France, Italy , Spain , Czech Republic , Belgium , Netherlands , Greece , Portugal , Austria, Switzerland
Language:			
Lungbuge.			
		3	Great Britain , Australia

#### Sunny Home Manager with Bluetooth® set incl. SMA radio-controlled sockets (HM-BT-10-Set)

Valid from: as provided	in c	ont	ract	
HM-BT-10-SET (price before options):	x	xx	×	Set consisting of Sunny Home Manager with Bluetooth® and two SMA radio-controlled sockets
Power supply:	1			with power supply
Male connector:		01		Type of connector CEE7/4; Germany , Austria, Netherlands , Portugal , Greece , Italy , Spain
Language:			1	Germany , Italy , Spain , Netherlands , Greece , Portugal , Austria, Switzerland

#### SMA radio-controlled socket with Bluetooth® (BT-SOCKET-10)

Valid from: as provided in contract

BT-SOCKET-10 (price before options):	xx SMA radio-controlled socket with Bluetooth® - wireless control and energy measurement of loads and increase of Bluetooth® range
Male connector;	01 Type of connector CEE7/4; Germany , Austria, Netherlands , Portugal , Greece , Italy , Spain
Language:	

#### SMA radio-controlled socket value pack (BT-SOCKETSET5-10)

 Valid from: as provided in contract

 BT-SOCKET-SET5-10 (price before options):
 SMA radio-controlled socket with Bluetooth® Value pack with 5 SMA radio-controlled sockets

 Value pack with 5 SMA radio-controlled sockets

 Male connector; Language:
 01

Type of connector CEE7/4; Germany , Austria, Netherlands , Portugal , Greece , Italy , Spain

HM-DO-METERADAPTER

#### SMA Cluster Controller (CLCON-10)

Valid from: as provided in	n contract
CLCON-10 (price before options):	<ul> <li>SMA Cluster Controller</li> <li>Device for the monitoring and control of SMA inverters in decentralized large-scale PV plants with Speedwire network LC display, top-hat rail mounted</li> <li>Availability: on inquiry</li> </ul>
Language:	I         Germany , France, Italy , Spain , Czech Republic , Belgium , Netherlands , Greece , Portugal , Austria, Switzerland
CLCON-PWRSUPPLY	Top-hat rail power supply unit 24 V DC / 2.5 A power supply unit for the SMA Cluster Controller, top-hat rail mounted, Input: 100-240 V AC, output: 24 V DC / 2.5 A
USB-FLASHDRV4GB	USB memory stick 4 GB High Speed USB 2.0 Flash memory, highly reliable industrial quality, water- and dust proof, ESD protected, operating temperature -40°C +85°C
USB-FLASHDRV8GB	USB memory stick 8 GB High Speed USB 2.0 Flash memory, highly reliable industrial quality, water- and dust proof, ESD protected, operating temperature -40°C +85°C



Valid from: as provided in contract									
VIEW-10	Sunny View Color touch display for plant monitoring of up to 12 SMA inverters								

#### Sunny Beam with Bluetooth®

Valid from: as provided in contract

BEAM-BT-11 (price before options):	xx	Sunny Beam with Bluetooth® Wireless Technology Wireless plant monitoring for up to 12 Sunny Boy and/or Sunny Mini Central inverters, incl. USB cable
	_	
		Australia (Documentation: English)
		Belgium (Documentation: German, Dutch, French)
	cz	Czech Republic (Documentation: Czech)
	DE	Germany (Documentation: German)
	ES	Spain (Documentation: Spanish)
	FR	France (Documentation: French)
Language:	GB	Great Britain (Documentation: English)
	GR	Greece (documentation: Greek)
	ІТ	Italy (Documentation: Italian)
	NL	Netherlands (Documentation: Dutch)
	РТ	Portugal (Documentation: Portuguese)
	US	USA (Documentation: English)
-		· · · ·

BEAM-BT-BATTERY	2 NiMH spare batteries for Sunny Beam with Bluetooth®, rechargeable
BEAM-BT-SUPPLY	USB plug-in power supply to charge the Sunny Beam batteries (EU, US, UK)
SBEAM-BAT	Spare batteries (2 pcs.) for Sunny Beam (868/917 MHz), rechargeable
BEAM-AW15	External antenna kit with 1.5 m extension cord for BEAM 868/917 MHz
BEAM-AW100	External antenna kit with 10 m extension cord for BEAM 868/917 MHz



#### SMA Bluetooth® Repeater

Valid from: as provided in contract

BTREP-IN (price before options):	×		SMA Bluetooth® repeater for increasing the range of SMA Bluetooth® products for use indoors
	1		with plug-in power supply
Power supply:	2		Power Modul, without plug-in power supply, not for USA
		-	Australia (Documentation: English)
		BE	Belgium (Documentation: German, Dutch, French)
		cz	Czech Republic (Documentation: Czech)
		DE	Germany (Documentation: German)
			Spain (Documentation: Spanish)
Language:		FR	France (Documentation: French)
Lungouge.			Great Britain (Documentation: English)
			Greece (documentation: Greek)
			Italy (Documentation: Italian)
			Netherlands (Documentation: Dutch)
			Portugal (Documentation: Portuguese)
		US	USA (Documentation: English)

#### Valid from: as provided in contract

BTREP-OUT (price before options):	x	xx	SMA Bluetooth® Repeater Outdoor for increasing the range of SMA Bluetooth® products for use outdoors
Power supply:*	1		with power supply for DIN rail mounting
Fower supply:	2		Power Modul, without power supply for DIN rail mounting
Language:		DE	Germany (Documentation: German)

\* The option 2 is not valid for the US



PWRM-10-NR Module for the power supply of the SMA Bluetooth® Repeater or the SMA Power Injector with Bluetooth® from the new Sunny Boy inverters

PWRSUPPLY Plug-in power supply (EU, US, UK, AU, KR) for SMA Bluetooth® Repeater, Sunny WebBox, Power Reducer Box, Power Injector of the Sunny SensorBox and Wireless-Set 485-01/02 radio set

#### Power Reducer Box

Valid from: as provided in contract				
POWERREDUCER BOX (price before options):	x	x		Power Reducer Box control device for feed-in and grid management in large-scale PV plants.
Inputs:	1			4 digital inputs
Memory Card:		0		none
Memory Cara:		4		2 GB SDcard
			DE	Germany (documentation: German)
1				Australia (documentation: English)
Language:			cz	Czech Republic (documentation: Czech)
			ES	Spain (documentation: Spanish)



#### Sunny WebBox

Valid from: as provided in contract					
SUNNYWEBBOX (price before options):	x	x	×	xx	Sunny WebBox Central measurement data acquisition and diagnostic unit for the professional monitoring of the PV plant
SMA COM:	0				Without (Communication via Ethernet)
	2				R\$485
		0			Without (Communication via Ethernet)
AUX COM:		3			Modem analog
		5			Modem GSM
		6		_	Modem GSM, incl. SIM card *3)
			0		none
Memory Card:			3		1 GB SD Card
			4		2 GB SD Card
					Australia (documentation: English)
				BE	Belgium (documentation: German, Dutch, French)
					Czech Republic (documentation: Czech)
					Germany (documentation: German)
1					Spain (documentation: Spanish) France (documentation: French)
Language:					Great Britain (documentation: English)
					Greece (documentation: Greek)
					Italy (documentation: Italian) Korea (documentation: Korean)
					Noted (accumentation: Notedn) Netherlands (documentation: Dutch)
					Portugal (documentation: Durch)
				121	

\*3) Notice: T-Mobile card contract only available for Germany

#### Sunny WebBox with Bluetooth®

Valid from: as provided in contract						
WEBBOX-BT-20 (price before options):	×	x	xx	Sunny WebBox with Bluetooth® Wireless Technology Central measurement data acquisition and diagnostic unit for the professional monitoring of the PV plant		
SMA COM:	0			incl. Bluetooth® Wireless Technology		
		0		none		
Memory Card:		3		1 GB SD Card		
	_	4	_	2 GB SD Card		
				Australia (documentation: English)		
			BE	Belgium (documentation: German, Dutch, French)		
				Czech Republic (documentation: Czech)		
				Germany (documentation: German)		
				Spain (documentation: Spanish)		
Language:				France (documentation: French)		
				Great Britain (documentation: English)		
				Greece (documentation: Greek)		
				Italy (documentation: Italian)		
				Netherlands (documentation: Dutch)		
				Portugal (documentation: Portuguese)		
			US	USA (documentation: English)		

SMA

SWB- OUTANGSM 100	GSM antenna supplementary set for mounting the Sunny WebBox GSM antenna outside, incl. 10 m cable and mounting angle
SD-Card 1 GB	1 GB Secure Digital Memory Card for Sunny WebBox, I-Grade
SD-Card 2 GB	2 GB Secure Digital Memory Card for Sunny WebBox, I-Grade (for Sunny WebBox Firmware 1.42)
SIMCARD T-Mobile	GSM cellular phone network data card for use with Sunny WebBox, incl. contract form sheet and documentation NOTICE: Only available for Germany!
SUNNYWEBBOX- DUMMY	Sunny WebBox Demo, no function
WEBBOX-20- DUMMY	Non-functioning dummy for Sunny WebBox with Bluetooth®

#### Meter Connection Box

Valid from: as provided in contract

METER CONNECTIONBOX (price before options):	xx	Device for the transmission of meter pulses of an energy meter with S0 impulse output on the Sunny WebBox via the RS485 communication bus.
	DE	Germany (documentation: German)
		Great Britain (documentation: English)
		Spain (documentation: Spanish)
		Belgium (documentation: German, Dutch, French)
	т	Italy (documentation: Italian)
Language:	FR	France (documentation: French)
	AU	Australia (documentation: English)
	cz	Czech Republic (documentation: Czech)
	GR	Greece (documentation: Greek)
	NL	Netherlands (documentation: Dutch)
	PT	Portugal (documentation: Portuguese)

#### Sunny SensorBox

Valid from: as provided in contract

valia ironi. as provided			iuc	
SUNNYSENSOR (price before options):	x	×	xx	Sunny SensorBox Measuring system for environmental data capture for professional monitoring of the PV plant, incl. integrated irradiation and external module temperature sensor
	1			RS485 Power Injector Feed-in unit for power supply via the RS485 communication bus, incl. plug-in power supply and installation
	2			SMA Power Injector with BLUETOOTH® Feed-in and communication unit for power supply via the RS485 communication bus and connection to the Sunny SensorBox to the SMA Bluetooth communication, incl. plug-in power supply and mounting material
SMA Power- Injector:*	3			SMA Power Injector with BLUETOOTH® incl. Power Modul Feed-in and communication unit for power supply via the RS485 communication bus and connection to the Sunny SensorBox to the SMA Bluetooth communication, incl. Power Modul for power supply from the SB 3/4/5000TL-20, SB 3/4/5000TL-21, STP 8/10/12/15/17000TL-10, WB 3600TL-20 and 5000TL-20 (instead of plug-in power supply) and mounting material
Mounting plate:	I	0 1		Without Mounting plate for mounting the Sunny SensorBox on module rail
		⊢	<u>م</u> ا	Australia (documentation: English)
				Belgium (documentation: German, Dutch, French)
				Czech Republic (documentation: Czech)
				Germany (documentation: German) Spain (documentation: Spanish)
				France (documentation: Spanish)
Language:				Great Britain (documentation: English)
			GR	Greece (documentation: Greek)
				Italy (documentation: Italian)
				Korea (documentation: Korean)
				Netherlands (documentation: Dutch)
				Portugal (documentation: Portuguese) USA (documentation: English)
		I	03	

 $^{\star}$  The options 2 + 3 with Bluetooth are not valid for Korea

SEALKIT-SSENSOR

Set of replacement sealings for the Sunny SensorBox consisting of 1 x enclosure sealing and 6 x cable gland incl. corresponding sealings

#### Valid from: as provided in contract

WINDSENSOR (price before options):	xx	Wind speed sensor for connection to Sunny SensorBox; 0.8 40 m/s, incl. 3 m connection cable, mounting angle and pole clamp
		Australia (documentation: English)
		Belgium (documentation: German, Dutch, French)
		Czech Republic (documentation: Czech)
		Germany (documentation: German)
		Spain (documentation: Spanish)
		France (documentation: French)
Language:	GB	Great Britain (documentation: English)
	GR	Greece (documentation: Greek)
	IT	Italy (documentation: Italian)
	KR	Korea (documentation: Korean)
	NL	Netherlands (documentation: Dutch)
	РТ	Portugal (documentation: Portuguese)
	US	USA (documentation: English)

Wall-Mount-Bracket

wall mounting angle for mounting the wind speed sensor to wall, length 35 cm/90  $^\circ$ 

Valid from: as provided in contract

TEMPSENSOR- AMBIENT (price before options):	xx	PT100 ambient temperature sensor for Sunny SensorBox, measuring range -30°C to 80°C incl. mounting materials
		Australia (documentation: English)
		Belgium (documentation: German, Dutch, French)
		Czech Republic (documentation: Czech)
		Germany (documentation: German)
		Spain (documentation: Spanish)
		France (documentation: French)
Language:		Great Britain (documentation: English)
0 0		Greece (documentation: Greek)
	п	Italy (documentation: Italian)
		Korea (documentation: Korean)
	NL	Netherlands (documentation: Dutch)
	PT	Portugal (documentation: Portuguese)
	US	USA (documentation: English)
	РТ	Portugal (documentation: Portuguese)

TEMPSENSOR-MODULE	PT100 module temperature sensor for Sunny SensorBox, incl. 2-component thermally conductive adhesive and 2.5 m connection cable
Monplat-Sensor	Mounting plate for mounting the Sunny SensorBox on module rail
Roofan-Sensor	Roof bracket for mounting the Sunny SensorBox
Valid from: as provided in contro	act
(price before × pro	A Meteo Station fessional compact weather station with pyranometer for monitoring the PV plant via RS485-communication bus, incl. module-temperature sor and top-hat rail power supply
Region:         0         US/           1         EU	A , Canada

SA	A٨	
5	nA_	

### Power-Injector RS485 Power Injector supply unit for power supply via the RS485 communication bus, incl. plug-in power supply and mounting materials

Valid from: as provided in contract										
BT-485-CON-DEV (price before options):		SMA Power Injector with BLUETOOTH® Feed-in and communication unit for power supply via the RS485 communication bus and connection to the Sunny SensorBox to the SMA Bluetooth communication, incl. plug-in power supply and mounting material								
	0	without plug-in power supply								
		without plug-in power supply with plug-in power supply								
	1									
	1 2	with plug-in power supply								



#### Sunny Matrix

Valid from: as provided in contract

SMATRIX	x	x	x	x	x	×	xx	Sunny Matrix Large display for data visualization, with customer-specific front panel, incl. Ethernet interface
	_							
Cabinet:	0 1 2							Enclosure size: 800 mm x 400 mm Enclosure size: 800 mm x 800 mm Enclosure size: 800 mm x 1000 mm
Line 1:		1 2 3 4						line 4 characters line 8 characters line 12 characters line 16 characters
Line 2:			0 1 2 3 4					without line 2 line 4 characters line 8 characters line 12 characters line 16 characters
Line 3*:				0 1 2 3 4				without line 3 line 4 characters line 8 characters line 12 characters line 16 characters
Line 4*:					0 1 2 3 4			without line 4 line 4 characters line 8 characters line 12 characters line 16 characters
Power plug:						0 1		Power plug: SCHUKO (standard) Power plug: UK
Language:							DE ES FR IT NI	Germany (Software and documentation language: German) Spain (Software and documentation language: Spanish) France (Software and documentation language: French) Great Britain (Software and documentation language: English) Italy (Software and documentation language: Italian)

 $^{\star}\mbox{only}$  available with enclosure size 800 mm x 800 mm and larger



When ordering a Sunny Matrix with a customer-specific front panel, a suitable image must be provided. The specifications regarding the requirements of the image that is to be used on the front panel of the Sunny Matrix may be downloaded on the SMA website (www.SMA.de) on the Sunny Matrix product page.

SMATRIX-STD-40	Sunny Matrix Standard *5) external Display for data visualization, incl. Ethernet interface Enclosure size: 800 mm x 400 mm 1 line 16 digits Power plug: SCHUKO Software and documentation language: English
SMATRIX-STD-80	Sunny Matrix Standard *5) external Display for data visualization, incl. Ethernet interface Enclosure size: 800 mm x 800 mm 2 lines, 16 digits each Power plug: SCHUKO Software and documentation language: English
SMATRIX-STD-100	Sunny Matrix Standard *5) external Display for data visualization, incl. Ethernet interface Enclosure size: 800 mm x 1000 mm 2 lines, 16 digits each Power plug: SCHUKO Software and documentation language: English

 $^{*}$  5) Changing the defined configuration or the front panel design is not possible.

SMA

#### Software

 SMAOPCSERVER
 SMA OPC Server, the standardized data interface for large plants

 PC Software for Windows XP Professional (SP2), Windows Server 2003 (recommended)

#### **Communication Accessories**

I-7520	Interface converter RS485/RS232 incl. RS232 cable 1.8 m (RS485: terminal block/RS232: D-Sub 9-pin socket)
1-7561	Interface converter RS485/USB, RS422/USB, RS232/USB (RS485/422/232: terminal block)
WS485-01-10*	Wireless-Set 485-01 radio set for longer distances with RS485 communication for operation with Sunny WebBox, incl. antenna for outside mounting
WS485-02-10*	Wireless-Set 485-02 radio set Extension kit for Wireless-Set 485-01 for second radio link
WS485-01-11*	Wireless-Set 485-01 radio set for AUSTRALIA
WS485-02-11*	Extension kit for Wireless-Set 485-01 for AUSTRALIA
	* except combination of the Sunny Boy Control and inverters type SB 3000TL-20, SB 4000TL-20, SB 5000TL-20, STP 8000TL-10, STP 10000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL- 10



COMCAB-IN100	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm <sup>2</sup> , 100 m ring
COMCAB-IN200	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm <sup>2</sup> , 200 m ring
COMCAB-IN500	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm <sup>2</sup> , 500 m ring
COMCAB-IN1000	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm <sup>2</sup> , 1.000 m ring
COMCAB-OUT100	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm <sup>2</sup> , 100 m ring
COMCAB-OUT200	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm <sup>2</sup> , 200 m ring
COMCAB-OUT500	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm², 500 m ring
COMCAB-OUT1000	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm <sup>2</sup> , 1.000 m ring
SB-PG-OUT	PG cable gland for the connection of the outdoor communication cable COMCAB-OUTx to inverters type SWR/SB/SMC, 10 pc.

# **Off-grid Inverter**





#### Sunny Island 2224 (SI 2224)

					_	
SI 2224 (price before options):	×	x	×	o	x	Bidirectional off-grid inverter, output voltage: 230 V AC/50 Hz and 220 V AC/60 Hz, 30 min power 2.9 kW, rated power 2.2 kW, battery voltage: 2.2 V DC, external battery-temperature sensor, 3 m indoors synchronization cable
		_	-	-	-	No
Communication:	0					No communication RS485
		0				Master device: with control panel Sunny Remote Control (SRC-20), SD card, 5 m synchronization cable for Indoor installation
User interface:						
		1				Slave device: without control panel
Color of lid:			3			yellow (standard), other colors upon request
Documentation:					01	German, English, Spanish
Documentation:					02	French, Italian, Greek



#### Sunny Island 5048 (SI 5048)

Valid from: as provided in contract									
SI 5048 (price before options):	×	o	×	×	Bidirectional off-grid inverter, output voltage: 230 V AC/50 Hz and 220 V AC/60 Hz, 30 min power 6.5 kW, rated power 5.0 kW, battery voltage: 48 V DC, external battery-temperature sensor, SD/MMC card, synchronization cable				
	_								
	0				No communication for systems without communication and slave devices				
	4				RS485: RS485 communication interface, one communication interface per master device, 1x data cable (white) from RJ45 to 3 open insulated conductors between Sunny Island and Sunny WebBox or Sunny Boy, 1x terminator				
Communication:	6				Multicluster system: RS485 and CAN bus at one communication interface, incl. 1 x 5 m data cable (yellow) for CAN bus, 1 x 5 m data cable (grey) for RS485, 1 x data cable (white) from RJ45 to 3 open insulated conductors between Sunny Island and Sunny WebBox or Sunny Boy, 1 x grounding cable, 2 x terminator				
Color of lid:			3		yellow (standard), other colors upon request German, English, Spanish				
Documentation:				101	Nzerman English Spanish				



#### Sunny Island 6.0H (SI6.0H-11)

l in co	ontr	act			
×	x	x	o	x	Bidirectional off-grid inverter, output voltage: 230 V AC/50 Hz and 220 V AC/60 Hz, 30 min power 6.0 kW, rated power 4.6 kW, battery voltage: 48 V DC, external battery-temperature sensor, 2 m indoors synchronization cable
0					No communication for systems without communication and slave devices
4					RS485: RS485 communication interface (is mounted at delivery), 1 x communication interface per master device, 1 x 5 m data cable (grey), 1 x data cable (white) from RJ45 to 3 open insulated conductors between Sunny Island and Sunny WebBox or Sunny Boy
6					Multicluster system: RS485 and CAN communication interface (mounted at delivery), per master device one RS485 and CAN communication interface each, incl. 1 x 5 m data cable (yellow) for CAN bus, 1 x 5 m data cable (grey) for RS485, 1 x data cable (white) from RJ45 to 3 open insulated conductors between Sunny Island and Sunny WebBox or Sunny Boy
	0				Master device: with control panel Sunny Remote Control (SRC-20), SD card, 5 m synchronization cable for Indoor installation Slave device: without control panel
	•	3			yellow (standard), other colors upon request
				EN ES FF	German English Spanish French Italian Greek
	x 0 4	x x 0 4 6 0	x x x 0 4 6 1 1		x x x 0 x



#### Sunny Island 8.0H (SI8.0H-11)

in co	ntr	act			
×	x	×	0	x	Bidirectional off-grid inverter, output voltage: 230 V AC/50 Hz and 220 V AC/60 Hz, 30 min power 8.0 kW, rated power 6.0 kW, battery voltage: 48 V DC, external battery-temperature sensor, 2 m indoors synchronization cable
			_		
0					No communication for systems without communication and slave devices
4					RS485: RS485 communication interface (is mounted at delivery), 1 x communication interface per master device, 1 x 5 m data cable (grey), 1 x data cable (white) from RJ45 to 3 open insulated conductors between Sunny Island and Sunny WebBox or Sunny Boy
6					Multicluster system: RS485 and CAN communication interface (mounted at delivery), per master device one RS485 and CAN communication interface each, incl. 1 x 5 m data cable (yellow) for CAN bus, 1 x 5 m data cable (grey) for RS485, 1 x data cable (white) from RJ45 to 3 open insulated conductors between Sunny Island and Sunny WebBox or Sunny Boy
					Master device: with control panel Sunny Remote Control (SRC-20), SD card, 5 m synchronization cable for Indoor installation Slave device: without control panel
	·	3			yellow (standard), other colors upon request
				EN ES FR IT	German English Spanish French Italian Greek
	× 0 4	× × 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x 0	x x x x 0 x



#### Sunny Island Demo

SI-Dummy2224	Sunny Island 2224 demo device, without function
SI-Dummy5048	Sunny Island 5048 demo device, without function
SIX.XHM-DUMMY	Sunny Island SI8.0H/6.0H demo device, without function
Ständersystem	Stand system for Sunny Island demo device

#### Sunny Island Charger

Valid from: as provided in contract								
SIC50-MPT (price before options):	x	×	0	MPP solar charge controller battery voltage: 48 V/24 V/12 V battery current: 50 A/ 50 A/ 50 A nominal power: 2400 W at 48 V, max. PV voltage: 140 V incl. SIC-PB for communication with Sunny Island				
	_							
	0			Sunny Island Charger Piggy Back for the communication between Sunny Island Charger and the Sunny Island				
				8.0H/6.0H/5048/2224 via sync bus of the Sunny Islands, including 5 m synchronization cable for indoor installation				
Communication:								
	1			No communication				
		0		Without temperature sensor				
Temperature sensor:		1		With external temperature sensor				

#### **Multicluster-Boxes**

#### Multicluster Box MC-BOX-6.3

Valid from: as provided in contract

MC-BOX-6.3 (price before options):	0	0	0	0	x	3-phase Multicluster-Box f or 230 V / 50 Hz and 220 V / 60 Hz, connections for: 6 x Sunny Island 5048/6.0H/8.0H, 1 x generator connection with 55 kW, 1 x PV connection with 55 kW, 1 x, consumer load 55 kW incl. load-shedding contactor, incl. 1 x 5 m synchronization cable, from SI 5048/6.0H/8.0H to MC-Box, incl. 3 x 5 m communication cable from SI 5048/6.0H/8.0H to MC-Box
					DE	German
					EN	English
Dokumentation:					ES	Spanish
Dokumentation:					FR	French
					ІТ	Italian
					GR	Greek



#### Multicluster Box MC-BOX-12.3

Valid from: as provided in contract							
MC-BOX-12.3 (price before options):	0	0	0	0	×	3-phase Multicluster-Box for 230 V / 50 Hz and 220 V / 60 Hz, connections for: 12 x Sunny Island 5048/6.0H/8.0H, 1 x generator connection with 110 kW, 1 x PV connection with 110 kW, 1 x, consumer load 110 kW incl. load-shedding contactor, 1 x, consumer load 110 kW incl. load-shedding contactor, incl. 1 x 5 m synchronization cable, from Sunny Island to MC-Box, incl. 3 x 5 m communication cable from Sunny Island to MC-Box	
Dokumentation:					EN ES FR IT	German English Spanish French Italian Greek	



#### Multicluster Box MC-BOX-36.3

Valid from: as provided in contract						
MC-BOX-36.3 (price before 0 options):	0	0	0	×	Three-phase Multicluster Box for 230 V/50 Hz and 220 V/60 Hz, connections for: 36 x Sunny Island 5048/6.0 H, or connections for: 30 x Sunny Island 8.0, 1 x PV array connection with 300 kW, 1 x PV connection with 300 kW, 1 x load connection 300 kW, incl. load shedding contactor, incl. 1 x 5 m synchronization cable from Sunny Island to the MC-Box, incl. 3 x 5 m data cable from Sunny Island to the MC-Box incl. 1 set (3 pcs. each 500 A) replacement fuse elements for NH3 fuse switch-disconnector	
Dokumentation:				EN ES FR IT	German English Spanish French Italian Greek	

SMA Solar Technology AG



**Sunny Island Accessories** 

SMA

SI-CONFIG-10-V	SMA Off-Grid Configurator: Program for the design and simulation of off-grid PV plants with SMA components
SRC-20	Control panel Sunny Remote Control for SI 2224, SI 6.0H, SI 8.0H, incl. 128 MB SD card, and 5 m communication cable for indoor installation, mounting material
232PB-G3	RS232 interface as upgrade kit for Sunny Island SI 5048
SI-485PB-NR	RS485 communication interface as a retrofit kit for Sunny Island SI 2224, SI 5048, incl.: 1 x adapter cable white (from RJ45 to 3 open insulated conductors with wire-end ferrules for clamping), 1 x terminator, mounting instructions
SI-COMSMA-NR	RS485 communication interface as retrofit kit for SI 8.0H/6.0H, 1 x 5 m data cable (grey), 1 x adapter cable (white) from RJ45 to 3 open insulated conductors, 1 x terminator (plugged), 1 x screw, mounting instructions
SI-SYSCAN-NR	CAN communication interface as retrofit kit for SI 8.0H/6.0H master device in multicluster systems, 1 x 5 m data cable (yellow), 1 x terminator (plugged), 1 x screw, mounting instructions
МС-РВ	Multicluster communication interface as a retrofit kit for SI 5048 master device (CAN and RS485 communication interface on a Piggy- Back), incl.: 1 x 5 m data cable CAN-Bus (yellow), 1 x 5 m data cable RS485 (grey), 1 x adapter cable (white) from RJ45 to three open insulated conductors, 1 x grounding cable, 2 x termination resistor, mounting instructions
SIC-PB	SIC Piggy Back for the communication between SIC and the SI 8.0H, SI 6.0H, SI 5048, SI2224 via the sync bus of the Sunny Islands, 5 m synchronization cable for indoor installation
SI-COM-RJ45-3	Adapter cables (from RJ45 to 3 open insulated conductors with bootlace ferrules with fasteners) for using RS485 communication between Sunny Island and Sunny WebBox
SI-COMCAB-OUT2	2 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-20, sync bus, CAN bus, RS485 connection
SI-COMCAB-OUT5	5 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-20, sync bus, CAN bus, RS485 connection
SI-COMCAB-OUT10	10 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-20, sync bus, CAN bus, RS485 connection
SI-COMCAB-OUT20	20 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-20, sync bus, CAN bus, RS485 connection

#### **Generator Management Box**

power supply

SI-GENMAN-TFH230	Generator Management Box for 230 V generators, power supply 12 VDC from generator, incl. transformer (230 V / 12 V) for DIN rail mounting
SI-GENMAN-TFS230	Generator Management Box for 230 V generators, power supply 12 VDC from generator, incl. transformer (230 V / 12 V) as plug-in

#### Battery fuse boxes

#### BATFUSE-A.01

Valid from: as provided in contract

BATFUSE-A.01 (price before options):	x	xx	2-pole NH00 battery fuse for 1 Sunny Island or Sunny Backup, 2 DC inputs (2 x battery or 1 x battery and 1 x Sunny Island Charger)
Fuse value:	0		2 x 125 A fuse plug for Sunny Island 2224, Sunny Backup 2200 with 2 spare fuses
Dokumentation:		01	German, English, Spanish
Dokumentation:		02	French, Italian, Greek

#### BATFUSE-A.03

Valid from: as provided in contract

BATFUSE-A.03 (price before options):	×	ĸx	2-pole NH00 battery fuses for up to 3 Sunny Island or Sunny Backup, 4 DC inputs (2 x battery and 2 x Sunny Island Charger)
Fuse value:	0		6 x 125 A fuse plug for Sunny Island 6 with 2224 spare fuses
Dokumentation:		)1	German, English, Spanish
Dokumenianon:		02	French, Italian, Greek



#### BATFUSE-B.01

BATFUSE-B.01 (price before options):	x		2-pole NH1 battery fuse switch disconnector for one Sunny Island or Sunny Backup, 3 DC input ports (1 x battery and 2 x Sunny Island Chargers), 1 X auxiliary voltage output with 8 A
	o		2 x 125 A fuse plug for Sunny Island 2224/Sunny Backup 2200 with 2 spare fuses
	1		2 x 160 A fuse plug for Sunny Island 6.0H with 2 spare fuses
Fuse value:	2		2 x 200 A fuse plug for Sunny Island 8.0H with 2 spare fuses
	3		2 x 250 A fuse plug for Sunny Island 5048/Sunny Backup 5000 with 2 spare fuses
Dokumentation:		01	German, English, Spanish
Dokomentanon.		02	French, Italian, Greek

#### BATFUSE-B.03

### Valid from: as provided in contract

BATFUSE-B.03 (price before options):	x		2-pole NH1 battery fuse switch disconnector for up to 3 Sunny Island or Sunny Backup, 6 DC input ports (2 x battery and 4 x Sunny Island Charger), 1 X auxiliary voltage output with 8 A
	0		6 x 125 A fuse plug for Sunny Island 2224/Sunny Backup 2200 with 6 spare fuses
r. 1	1		6 x 160 A fuse plug for Sunny Island 6.0H with 6 spare fuses
Fuse value:	2		6 x 200 A fuse plug for Sunny Island 8.0H with 6 spare fuses
	3		6 x 250 A fuse plug for Sunny Island 5048/Sunny Backup 5000 with 6 spare fuses
Dokumentation:		01	German, English, Spanish
Dokumentalion.		02	French, Italian, Greek

#### Battery cable sets

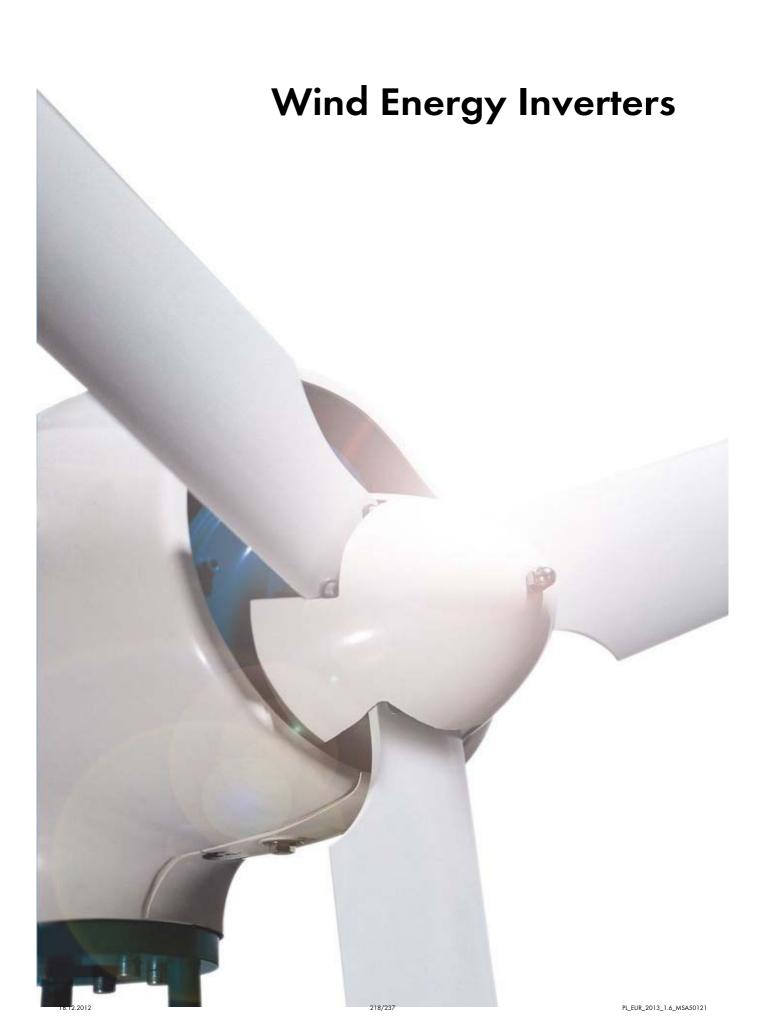
DC-CABLE.35-2	2 x 2 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the BatFuse with SI 2224. Cross- section 35 mm <sup>2</sup> , with narrow cable shoes pre assembled (M8)
DC-CABLE.35-4	2 x 4 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the BatFuse with SI 2224. Cross- section 35 mm², with narrow cable shoes pre assembled (M8)
DC-CABLE.35-6	2 x 6 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the BatFuse with SI 2224. Cross- section 35 mm², with narrow cable shoes pre assembled (M8)
DC-CABLE.70-3	2 x 3 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the BatFuse with SI 5048/6.0H/8.0H. Cross-section 70 mm², with narrow cable shoes (M8) pre assembled
DC-CABLE.70-6	2 x 6 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the BatFuse with SI 5048/6.0H/8.0H. Cross-section 70 mm <sup>2</sup> , with narrow cable shoes (M8) pre assembled
DC-CABLE.70-9	2 x 9 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the BatFuse with SI 5048/6.0H/8.0H. Cross-section 70 mm², with narrow cable shoes (M8) pre assembled
DC-CABLE.95-3	2 x 3 m ready to use, double-insulated battery cable type Radox 4GKW for connection of the BatFuse with SI 2012. Cross-section 95 mm <sup>2</sup> , with narrow cable shoes pre assembled
DC-CABLE.95-6	2 x 6 m ready to use, double-insulated battery cable type Radox 4GKW for connection of the BatFuse with SI 2012. Cross-section 95 mm <sup>2</sup> , with narrow cable shoes pre assembled
DC-CABLE.95-9	2 x 9 m ready to use, double-insulated battery cable type Radox 4GKW for connection of the BatFuse with SI 2012. Cross-section 95 mm <sup>2</sup> , with narrow cable shoes pre assembled

SI-LS45-48	3-pole load-shedding contactor with 45 A nominal current (AC-1) with 48 V DC coil for Sunny Island 5048/6.0H/8.0H
SI-LS100-48	3-pole load-shedding contactor with 100 A nominal current (AC-1) with 48 V DC coil for Sunny Island 5048/6.0H/8.0H
SI-LS25-24	3-pole load-shedding contactor with 25 A nominal current (AC-1) with 24 V DC coil for Sunny Island 2224
SI-LS45-24	3-pole load-shedding contactor with 45 A nominal current (AC-1) with 24 V DC coil for Sunny Island 2224

## Measuring shunts for the battery current detection

SI-SHUNT200	Battery current measuring shunt for two Sunny Island 6.0H/8.0H/5048/2224 (200 A nominal current / 60 mV)
SI-SHUNT400	Battery current measuring shunt for two Sunny Island 6.0H/8.0H/5048/2224 (400 A nominal current / 60 mV)
SI-SHUNT600	Battery current measuring shunt for two Sunny Island 6.0H/8.0H/5048/2224 (600 A nominal current / 60 mV)
SI-SHUNT800	Battery current measuring shunt for two Sunny Island 6.0H/8.0H/5048/2224 (800 A nominal current / 60 mV)

## Sunny Island spare parts





## Windy Tripower 9000TL (WTP 9000TL-20)

Valid from: as provided	alid from: as provided in contract										
WTP 9000TL-20 (Basispreis):	xx	x	-	x	x		Wind inverter for grid feed-in Pac,r/Sac, max 9000 W/9000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)				
specific price 1)											
Color of lid:	08						Gentian blue (additional colors on request)				
I/O port moduls:		0 2					Without (standard) Power Control Module				
Documentation:				Di Ef Fi P Di O	N R T T		German English Spanish French Italian Portuguese Danish Language package (DE, EN, ES, FR, IT, PT)				
Country specific grid settings:						DE OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).				

### Comments



## Windy Tripower 8000TL (WTP 8000TL-20)

Valid from: as provided	alid from: as provided in contract										
WTP 8000TL-20 (Basispreis):	xx	x	-	×	ίx	xx	Wind inverter for grid feed-in Pac,r/Sac, max 8000 W/8000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)				
specific price 1)											
Color of lid:	08						Gentian blue (additional colors on request)				
I/O port moduls:		0 2					Without (standard) Power Control Module				
Documentation:				EI F T D	DE N S R IT PT DK		German English Spanish French Italian Portuguese Danish Language package (DE, EN, ES, FR, IT, PT)				
Country specific grid settings:							Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).				

### Comments



## Windy Tripower 7000TL (WTP 7000TL-20)

Valid from: as provided	alid from: as provided in contract										
WTP 7000TL-20 (Basispreis):	x	x	-	· x	x		Wind inverter for grid feed-in Pac,r/Sac, max 7000 W/7000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)				
specific price 1)				T	T						
Color of lid:	08						Gentian blue (additional colors on request)				
I/O port moduls:		0 2			1		Without (standard) Power Control Module				
Documentation:				D El Fl T D D	N S R T T		German English Spanish French Italian Portuguese Danish Language package (DE, EN, ES, FR, IT, PT)				
Country specific grid settings:					•	DE OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).				

### Comments



## Windy Tripower 6000TL (WTP 6000TL-20)

Valid from: as provided	'alid from: as provided in contract										
WTP 6000TL-20 (Basispreis):	xx	x	-	x	<b>x</b> :	xx	Wind inverter for grid feed-in Pac,r/Sac, max 6000 W/6000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)				
specific price 1)				t	t						
Color of lid:	08						Gentian blue (additional colors on request)				
I/O port moduls:		0 2			1		Without (standard) Power Control Module				
Documentation:				DI EN ES FF IT DI O	N R T K		German English Spanish French Italian Portuguese Danish Language package (DE, EN, ES, FR, IT, PT)				
Country specific grid settings:					•	DE OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).				

### Comments



## Windy Tripower 5000TL (WTP 5000TL-20)

Valid from: as provided	alid from: as provided in contract										
WTP 5000TL-20 (Basispreis):	xx	x	-	×	х.		Wind inverter for grid feed-in Pac,r/Sac, max 5000 W/5000 VA three-phase feed-in, with reactive power supply, transformerless, graphic display, rotating selection switch for country settings SMA Bluetooth® and Webconnect communication interface, multifunctions relay, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)				
specific price 1)											
Color of lid:	08						Gentian blue (additional colors on request)				
I/O port moduls:		0 2					Without (standard) Power Control Module				
Documentation:				EI FI I P	S R T T		German English Spanish French Italian Portuguese Danish Language package (DE, EN, ES, FR, IT, PT)				
Country specific grid settings:						DE OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).				

### Comments



## Windy Boy 6000A (WB 6000A-11)

Valid from: as provided	in c	ont	ract							
WB 6000A-11 (price before options):	x	o	0	x	4	1	-	xx	c xo	Inverter for small wind turbine systems, 6000 Wnom/6000 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)										
Communication:	5 8 B									without communication interface RS485 SMA Bluetooth®
Color of lid:	-			0						red (additional colors on request)
Connector:					4					SUNCLIX
Documentation:								DE EN ES FR IT PT		German English Spanish French Italian Portuguese
Country specific grid settings:									Di O	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy 5000A (WB 5000A-11)

Valid from: as provided WB 5000A-11 (price before options):	×	0		4	1	-	xx	cx :	Inverter for small wind turbine systems, 5000 Wnom/5500 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:			0						red (additional colors on request)
Connector:				4					SUNCLIX
Documentation:							DE EN ES FR IT PT		German English Spanish French Italian Portuguese
								DI	Default Setting VDE-AR-N 4105 (standard)
Country specific grid settings:								0	Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy 5000TL (WB 5000TL-21)

Valid from: as provided	alid from: as provided in contract											
WB 5000TL-21 (Basispreis):	x	xx	4	,	¢		xx	xx	Inverter for small wind turbine systems for grid feed-in Pac,r/Sac, max 4600 W/ 5000 VA* transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)			
specific price 1)												
Communication:	0 1								SMA Bluetooth® (integrated) SMA Bluetooth® (integrated) + RS485			
Color of lid:		00							red (additional colors on request)			
I/O port moduls:				C 1	- 11				Without (standard) Multi-function relay			
Documentation:							DE EN ES FR IT PT 00		German (Standard) English Spanish French Italian Portuguese Language package (DE, EN, ES, FR, IT, PT)			
Country specific grid settings:								OF	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).			

### Comments

1) Can vary depending on options.

 $^{\star}$  with configuration according to VDE-AR-N 4105, limitation of Sac to max. 4600 W.



## Windy Boy 4000TL (WB 4000TL-21)

Valid from: as provided	/alid from: as provided in contract											
WB 4000TL-21 (Basispreis):	x	xx	. 4	1	x		xx	xx	Inverter for small wind turbine systems for grid feed-in Pac,r/Sac, max 4000 W/ 4000 VA* transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)			
specific price 1)												
Communication:	0								SMA Bluetooth® (integrated)			
	1								SMA Bluetooth® (integrated) + RS485			
Color of lid:		00							red (additional colors on request)			
I/O port moduls:					0				Without (standard)			
, . p					1				Multi-function relay			
							DE		German (Standard)			
							EN		English			
							ES		Spanish			
Documentation:							FR		French			
							IT		Italian			
							РТ 00					
	_		$\vdash$		_		100		Language package (DE, EN, ES, FR, IT, PT)			
								00	Default Setting VDE-AR-N 4105 (standard)			
Country specific grid								OF	Default setting for offgrid operation			
settings:												
			_					ZZ	Grid parameter country settings: customer specification (setting code, if available).			
									I			

#### Comments



## Windy Boy 3600TL (WB 3600TL-21)

Valid from: as provided	in c	ont	rac	t				
WB 3600TL-21 (Basispreis):	x	xx	4		ĸ	xx	xx	Inverter for small wind turbine systems for grid feed-in Pac,r/Sac, max 3680 W/ 3680 VA* transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)
specific price 1)								
Communication:	0							SMA Bluetooth® (integrated)
	1				4			SMA Bluetooth® (integrated) + RS485
Color of lid:		00						red (additional colors on request)
I/O port moduls:				C				Without (standard)
· •	_		_	1	1	 		Multi-function relay
						DE		German (Standard)
						EN		English
Documentation:						ES		Spanish French
Documentation:						FR IT		Italian
						II PT		Portuguese
						00		Language package (DE, EN, ES, FR, IT, PT)
		⊢						Default Setting VDE-AR-N 4105 (standard)
					1			
Country specific grid					1		OF	Default setting for offgrid operation
settings:							zz	Grid parameter country settings: customer specification (setting code, if available).
		I	-		-1			

#### Comments



## Windy Boy 3000TL (WB 3000TL-21)

Valid from: as provided	in c	ont	rac	ct					
WB 3000TL-21 (Basispreis):	x	xx	. 4	1.	×	-	xx	xx	Inverter for small wind turbine systems for grid feed-in Pac,r/Sac, max 3000 W/ 3000 VA* transformerless, for reactive power feed-in, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC connection SUNCLIX, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	0								SMA Bluetooth® (integrated)
	1								SMA Bluetooth® (integrated) + RS485
Color of lid:		00							red (additional colors on request)
I/O port moduls:					0				Without (standard)
· •	_	_	-	+	1				Multi-function relay
							DE		German (Standard)
							EN		English
Documentation:							ES		Spanish French
Documentation:							FR IT		Italian
							PT		Portuguese
							00		Language package (DE, EN, ES, FR, IT, PT)
					1	-			Default Setting VDE-AR-N 4105 (standard)
Country specific grid								OF	Default setting for offgrid operation
settings:								zz	Grid parameter country settings: customer specification (setting code, if available).
		I							

#### Comments



## Windy Boy 3800 (WB 3800-11)

Valid from: as provided	in c	ont	rac	1	_			_			
WB 3800-1 1 (price before options):	x	o	0	×	4	1	1	- x	×	<b>xx</b> 3	nverter for small wind turbine systems, 1800 Wnom/3800 WMax grid-tied operation, rid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)											
Communication:	5 8 B									R	vithout communication interface IS485 IMA Bluetooth®
Color of lid:				0					T		ed (additional colors on request)
Connector:					4				T		UNCLIX
Documentation:								D Ef Fi IT P	N S R T	E S Fi It	Serman inglish ipanish rench valian iortuguese
Country specific grid settings:									•	de D	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy 3300 (WB 3300-11)

Valid from: as provided	in c	ont	ract							
WB 3300-11 (price before options):	x	o	0	×	4	1	-	xx	c xo	Inverter for small wind turbine systems, 3300 Wnom/3600 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)										
Communication:	5 8 B									without communication interface RS485 SMA Bluetooth®
Color of lid:				0						red (additional colors on request)
Connector:					4					SUNCLIX
Documentation:								DE EN ES FR IT PT		German English Spanish French Italian Portuguese
Country specific grid settings:									Di O	Default Setting VDE-AR-N 4105 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy 3000 (WB 3000)

Valid from: as provided WB 3000 (price before options):	x	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 2750 Wnom/3000 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:	-		0						red (additional colors on request)
Connector:				4					SUNCLIX
Documentation:							DE EN ES FR IT PT		German English Spanish French Italian Portuguese
									Default Setting VDE-AR-N 4105 (standard)
Country specific grid settings:								OF	Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy 2500 (WB 2500)

Valid from: as provided WB 2500 (price before options):	x	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 2300 Wnom/2500 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)									
Communication:	5 8 B								without communication interface RS485 SMA Bluetooth®
Color of lid:	-		0						red (additional colors on request)
Connector:				4					SUNCLIX
Documentation:							DE EN ES FR IT PT		German English Spanish French Italian Portuguese
									Default Setting VDE-AR-N 4105 (standard)
Country specific grid settings:								OF	Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy 1700 (WB 1700)

Valid from: as provided WB 1700 (price before options):	in c	o		4	1	-	xx	xx	Inverter for small wind turbine systems, 1550 Wnom/1700 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
·(· · 1)									
specific price 1)			⊢					_	
	5								without communication interface
Communication:	8								RS485
	B								SMA Bluetooth®
Color of lid:	-		0						red (additional colors on request)
Connector:				4					SUNCLIX
							DE		German
							EN		English
							ES		Spanish
Documentation:							FR		  French
							ΙТ		Italian
							РТ		Portuguese
									Default Setting VDE-AR-N 4105 (standard)
Country specific grid settings:								OF	Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy 1200 (WB1200)

Valid from: as provided	in c	onti	ra	ct				
WB 1200 (price before options):	x	x		4	-	xx	xx	Inverter for small wind turbine systems, 1200 Wnom/1200 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)			Γ					
	5							without communication interface
Communication:	8							RS485
	в							SMA Bluetooth®
Color of lid:		0						red (additional colors on request)
Connector:			4	4				SUNCLIX
						DE		German
						EN		English
Documentation:						ES		Spanish
Bocomentation.						FR		French
						IT		Italian
						PT		Portuguese
							DE	Default Setting VDE-AR-N 4105 (standard)
Country specific grid							OF	Default setting for offgrid operation
settings:							zz	Grid parameter country settings: customer specification (setting code, if available).

#### Comments



## Windy Boy Protection Box

### WBP-Box 400

WBP-Box 400-11 (price before options):	x	0	o	×	Rectifier and overvoltage protection for Small wind turbine systems with Windy Boy inverters. Generator input: 3-phase up to 500 VAC, Connection Windy Boys with max. DC input voltage of 400 VDC. Including necessary load resistor
	0			-	With load resistor
Load resistor:	6				Without load resistor
Documentation:				0	German
Documentation:				1	English

# WBP-Box 500

WBP-Box 500-11 (price before options):	×	0	0	×	Rectifier and overvoltage protection for Small wind turbine systems with Windy Boy inverters. Generator input: 3-phase up to 500 VAC, Connection Windy Boys with max. DC input voltage of 500 VDC Including necessary load resistor
Load resistor:	0				With load resistor
	6				Without load resistor
Documentation:				0	German
Documentation:				1	English

#### WBP-Box 600

WBP-Box 600-11 (price before options):	×	0	o	×	Rectifier and overvoltage protection for Small wind turbine systems with Windy Boy inverters. Generator input: 3-phase up to 500 VAC, Connection Windy Boys with max. DC input voltage of 600 VDC. Including necessary load resistor
Load resistor:	0				With load resistor
1000 10313101.	6				Without load resistor
Desumentations				0	German
Documentation:				1	English

WBP-LR6-20

Load resistor for WBP Box. 400/500/600 39 Ω/6 KW/IP 23 SMA Solar Technology AG Sonnenallee 1 34266 Niestetal Tel.: +49 (0) 56 1 / 95 22 - 40 00 Fax: +49 (0) 56 1 / 95 22 - 40 80 www.SMA.de

SMA