Single Phase Inverter Second Generation



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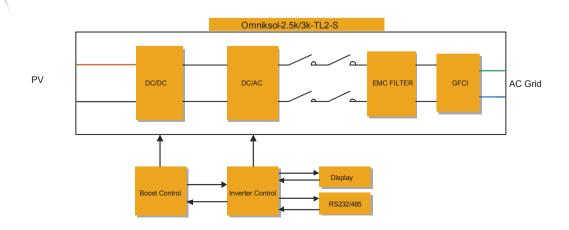
Omniksol-2.5k/3k-TL2-S



product features

Features	Advantages	Benefits
 Standard 10 years warranty, 	Longer life cycle	More stable and reliable
5-25years optional		
Built-in GPRS as option	Plug and play	No commissioning work to get real-time remote monitoring
Built-in Wifi as option	Free monitoring fee for data tr	ansmission Orre convenient monitoring solution without any charge
External Inductor	Very lower internal temperatur	e 😑 Longer life cycle
Smaller and lighter, 3kW-TL2 weighs only 9.9kg	Easy transportation and instal	lation 🥚 Saving storage and installation space
High performance DSP for algorithm control	Faster CPU speed	Higher inverter control accuracy
VDE-AR-N 4105 certification	Adjustable active and reactive	power Meet the latest certification and regulations
New topology design	Maximum conversion efficience	y up to 97.7%, Increase system payback ability
	Euro up to 97.0%	
 Multi-button touch interface 	User friendly operation	Easy to operate
LCD screen visible at night	Real-time data readable at nig	ht eal-time operating condition accessible
Have anti-shading function	Suitable to complex installation environment	Increase the electricity generation of the system
		in shading environment

Block Diagram



Technical Date

Omniksol-2.5k/3k-TL2-S

Туре	Omniksol-2.5k-TL2-S	Omniksol-3k-TL2-S	
Input(DC)			
Max. PV Power	2800W	3250W	
Max. DC Voltage	500V	500V	
Nominal DC Voltage	360V	360V	
Operating MPPT Voltage Range	120-450V	120-450V	
MPPT Voltage Range at Nominal Power	150-450V	150-450V	
Start up DC Voltage	150V	150V	
Turn off DC Voltage	120V	120V	
Max. DC Current	18A	 18A	
Max. Short Circuit Current for each MPPT	20A	20A	
Number of MPP trackers	1	1	
Number of DC Connection for each MPPT	1	1	
DC Connection Type	MC4 Connector	MC4 Connector	
Output (AC)			
Max. AC Apparent Power	2750VA	3000VA	
Nominal AC Power(cos phi = 1)	2500W	3000W	
Nominal Grid Voltage	220V/230V/240V 50Hz/60Hz	220V/230V/240V 50Hz/60Hz	
Nominal Grid Frequency			
Max. AC Current	12.5A	14.0A	
Grid Voltage Range*	185-276V	185-276V	
Grid Frequency Range*	45-55Hz/55-65Hz	45-55Hz/55-65Hz	
Power Factor	0.95 capacitive0.95 inductive	0.95 capacitive0.95 inductive	
Total Harmonic Distortion (THD)	<2%	<2%	
Feed in Starting Power	30W	30W	
Night time Power Consumption	<1W	<1W	
Standby Consumption	6W	6W	
AC Connection Type	Plug-in connector	Plug-in connector	
Efficiency			
Max. Efficiency (at 360Vdc)	97.7%	97.7%	
Euro Efficiency (at 360Vdc)	96.9%	97.0%	
MPPT Efficiency	99.9%	99.9%	
Safety and Protection			
DC Insulation Monitoring		Yes	
DC Switch	Optional		
Residual Current Monitoring Unit (RCMU)			
Grid Monitoring with Anti-islanding	Yes		
Protection Class	I (According to IEC 62103)		
Overvoltage Category	PV II / Mains III (According to IEC 62109-1)		
Reference Standard			
Safety Standard	EN 62109	9, AS/NZS 3100	
EMC Standard	EN 61000-6-1, EN 61000-6-3, EN 61000-6-2, EN 61000-6-4, EN61000-3-2, EN61000-3-3		
Grid Standard VD	E-AR-N-4105,VDE 0126-1-1, RD1699, C10/11	, G83/2, UTE C15-712-1, AS4777, CEI 0-21, EN50438	
Physical Structure			
Dimensions (WxHxD)	343x2	281x150mm	
Weight	9.9kg		
Environmental Protection Rating	IP 65 (According to IEC 60529)		
Cooling Concept	Natural convection		
Mounting Information		ll bracket	
General Data			
Operating Temperature	-20°C to +60°C	(derating above 45°C)	
RangeRelative Humidity	0% to 98%, no condensation		
Max. Altitude (above sea level)	2000m		
Noise Level	< 40dB		
Isolation Type	Transformerless		
Display	3 LED, Backlight, 4 x 20 Character LCD		
Data Communication Interfaces	RS485(WiFi, GPRS integrated)		
Computer Communication	USB		
Standard Warranty	10 Vooro /5	25 years optional)	
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*The AC voltage and frequency range may vary depending on specific country grid

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