



Unit 111, Dunston Innovation Centre
 Chesterfield, S41 8NG, U.K.
 T e l : + 44 (0) 1246 452909
 F a x : + 44 (0) 1246 452942
 W e b : w w w . e t p s . c o . u k
 E m a i l : s a l e s @ e t p s . c o . u k
 S a l e s : 0 8 0 0 6 1 2 9 5 7 5

INV-S

Sinewave Inverter

Description

The INV-S are a range of robust DC/AC Inverters that demonstrate very high energy conversion efficiencies of over 90%. The units produce a true sinewave output which is protected against short circuit. The output frequency is regulated to within one quarter of a cycle to the nominal 50Hz. The AC output is provided via an IEC 320 socket. The mating connector is supplied with the unit. The DC input to the inverter is continually monitored to protect connected batteries from over discharge. If the input voltage falls out of tolerance the unit automatically switches itself off. Protection is also provided against inverter overload and over temperature. The unit will automatically restart after the fault has been cleared. The two higher power models feature an adjustable standby function along with a resettable DC breaker. Each unit in the INV-S series has a wide operating temperature range and will function in freezing conditions as low as -25°C.



- True sinewave output
- Battery monitoring
- Automatic restart
- High Efficiency
- Compact Size

Selection Table

Part Number	Max Continuous Power	Input Voltage	Output Voltage	Output Current
INV-S 12P	150VA	12VDC	230VAC	0.7A
INV-S 24P	300VA	24VDC	230VAC	1.1A
INV-S 12D	550VA	12VDC	230VAC	2.1A
INV-S 24D	710VA	24VDC	230VAC	3.0A

Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



sales@etps.co.uk
0800 612 95 75

INV-S

Sinewave Inverter

Technical Data

Inverter	INV-S 12P	INV-S 24P	INV-S 12D	INV-S 24D
Rated Voltage UDC _{IN}	12V	24V	12V	24V
Input Voltage Range	10.5 - 16.0VDC	21.0 - 32.0VDC	10.5 - 16.0VDC	21.0 - 32.0VDC
Dynamic Low Voltage Cut Off	10.5 - 9.0VDC	21.0 - 18VDC	10.5 - 9.0VDC	21.0 - 18VDC
Rated Current IDC _{IN}	14A	12A	50A	35A
Current IDC _{IN} max.	32A	37A	160A	150A
Rated Power P ₁₀ (10min at TA = 20°C)	195VA	350VA	675VA	1300VA
Rated Power P ₃₀ (30min at TA = 20°C)	180VA	330VA	620VA	1100VA
Continuous Power PD	150VA	300VA	550VA	710VA
Rated Output Voltage UAC _{OUT}	230 VAC ±5% (short circuit proof)			
Output Frequency	50Hz ±0.5% (true sinewave)			
Rated Output Current IAC _{OUT}	0.7A	1.1A	2.1A	3.0A
Short Circuit IAC _K (max. 0.5s)	2A	3A	6A	8A
Allowable CosPhi	0.3 - 1			
Efficiency Factor max.	92%	93%	93%	94%
Adjustable Standby Level (logarithmic)	Not applicable		2 - 40W	
Consumption Standby/OFF	Not applicable		ca. 1.5W (test impulse every 800ms)/10mA	
Consumption 230VAC OK	2.5W	3W	5W	8W
Reset after Short Circuit	Every 60s			
Reset after Overload	Every 60s			
Reset after Overtemperature	Automatically after reaching semiconductor temperature +45°C			
Reset after Battery Failure	Automatically after reaching UDC _{IN}			

General

Ambient Temperature Range	-25°C to +60°C (max. 95% rH, non condensing)			
DC- Breaker/Fuse	No	No	63A	63A
Remote Control ON/OFF	No	No	No	No
Status Indication	LED	LED	LED	LED
Alarm Contact	No	No	No	No
Toroidal Transformer	EN61558 (IEC61558)			
Temperature & Load Controlled Fan	ON 55°C/OFF 45°C, PD >80%			
Dimensions (L x W x H)	190 x 110 x 75mm	190 x 110 x 75mm	275 x 155 x 96mm	275 x 155 x 96mm
IP Protections	IP20			
Standards	CE			
Included in Delivery	Connector for non-heating apparatus			
Weight	1.8kg	2.5kg	5.1kg	6.8kg
Warranty	2 Years			

Options Table

Code	Description
/19"	Unit built into a 19" rack