

# INV-S

## SINEWAVE INVERTER



POSITIVE PROBLEM SOLVING **+ =**

**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. Each unit in the INV-S series has a wide operating temperature range and will function in freezing conditions as low as -25°C.

- + Optional 110VAC Output**
- + True Sinewave Output**
- + Battery Monitoring**
- + Automatic Restart**
- + High Efficiency**
- + Compact Size**

# INV-S SINEWAVE INVERTER

## FURTHER DETAILS

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.

### SELECTION TABLE

Part Number	Max. Continuous Power	Input Voltage	Output Voltage	Output Current
INV-S 12P	150VA	12VDC	230VAC	0.7A
INV-S 24P	250VA	24VDC	230VAC	1.1A
INV-S 12D	550VA	12VDC	230VAC	2.1A
INV-S 24D	710VA	24VDC	230VAC	3.0A
INV-S 12A	850VA	12VDC	230VAC	3.5A
INV-S 24A	1000VA	24VDC	230VAC	4.2A
INV-S 36A	1000VA	36VDC	230VAC	4.2A
INV-S 48A	1000VA	48VDC	230VAC	4.2A

Different output voltage and frequencies are possible. Please contact ETPS Ltd to discuss your requirements.

### OPTIONS

CODE	DESCRIPTION
/19	Unit built into a 19" rack
/110	Unit built with a 110VAC, 60Hz output

## TECHNICAL DATA

	INV-S 12P	INV-S 24P	INV-S 12D	INV-S 24D
Rated Voltage UDC <sub>IN</sub>	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 - 18.0VDC	10.5 - 9.0VDC	21.0 - 18.0VDC
Rated Current IDC <sub>IN</sub>	14A	12A	50A	35A
Current IDC <sub>IN</sub> max.	32A	37A	160A	150A
Rated Power P <sub>10</sub> [10min at TA = 20°C]	195VA	350VA	675VA	1300VA
Rated Power P <sub>30</sub> [30min at TA = 20°C]	180VA	330VA	620VA	1100VA
Continuous Power PD	150VA	250VA	550VA	710VA
Rated Output Voltage UAC <sub>OUT</sub>	230VAC ± 2% [short circuit proof]			
Output Frequency	50Hz ± 0.5% [true sinewave]			
Rated Output Current IAC <sub>OUT</sub>	0.7A	1.1A	2.1A	3.0A
Short Circuit IAC <sub>K</sub> (max. 0.5s)	2A	3A	6A	8A
Allowable CosPhi	0.3 - 1.0			
Efficiency Factor max.	92%	93%	93%	94%
Adjustable Standby Level [logarithmic]	Not applicable		2 - 40W	
Consumption Standby/OFF	Not applicable		ca. 1.5W [800ms test impulse]/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 <sub>IN</sub>			

### GENERAL

Ambient Temperature Range	-25°C to +50°C [max. 95% rH, non condensing]			
DC Breaker/Fuse	No	No	63A	63A
Remote Control ON/OFF	No			
Status Indication	LED			
Alarm Contact	No			
Torodial Transformer	Galvanically Isolated EN 61558 [IEC61558]			
Temperature & Load Controlled Fan	ON 55°C/OFF 45°C, PD > 80%			
Dimensions [L x W x H]	190 x 110 x 75mm		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			

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.

## TECHNICAL DATA

	INV-S 12A	INV-S 24A	INV-S 36A	INV-S 48A
Rated Voltage UDC <sub>IN</sub>	12V	24V	36V	48V
Input Voltage Range	10.5 - 16.0VDC	21.0 - 32.0VDC	32.0 - 48.0VDC	42.0 - 64.0VDC
Dynamic Low Voltage Cut Off	10.5 - 9.0VDC	21.0 - 18.0VDC	32.0 - 27.0VDC	42.0 - 36.0VDC
Rated Current IDC <sub>IN</sub>	78A	50A	33A	25A
Current IDC <sub>IN</sub> max.	250A	160A	105A	80A
Rated Power P <sub>10</sub> (10min at TA = 20°C)	1100VA	1600VA	1600VA	1600VA
Rated Power P <sub>30</sub> (30min at TA = 20°C)	950VA	1450VA	1450VA	1450VA
Continuous Power PD	850VA	1000VA	1000VA	1000VA
Rated Output Voltage UAC <sub>OUT</sub>	230VAC ± 2% (short circuit proof)			
Output Frequency	50Hz ± 0.5% (true sinewave)			
Rated Output Current IAC <sub>OUT</sub>	3.5A	4.2A	4.2A	4.2A
Short Circuit IAC <sub>K</sub> (max. 0.5s)	8A	11A	11A	11A
Allowable CosPhi	0.3 - 1.0			
Efficiency Factor max.	94%			
Adjustable Standby Level (logarithmic)	2 - 40W			
Consumption Standby/OFF	ca. 0.5W/0W			
Consumption 230VAC OK	8W	10W	10W	10W
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 <sub>IN</sub>			

### GENERAL

Ambient Temperature Range	-25°C to +50°C (max. 95% rH, non condensing)			
DC Breaker/Fuse	100A	80A	63A	32A
Remote Control ON/OFF	RS-232 (9-pin)			
Status Indication	LED			
Alarm Contact	No			
Torodial Transformer	Galvanically Isolated EN 61558 (IEC61558)			
Temperature & Load Controlled Fan	ON 55°C/OFF 45°C, PD > 80%			
Dimensions (L x W x H)	360 x 210 x 120mm			
IP Protections	IP20			
Standards	CE			
Included in Delivery	Connector for non-heating apparatus			
Weight	10kg	11kg	11kg	11kg
Warranty	2 years			

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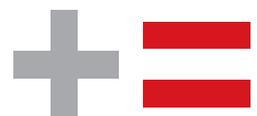
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