

INV-P

RACKMOUNTING DC/AC SINEWAVE INVERTER



POSITIVE PROBLEM SOLVING **+ =**

The INV-P range provides a true stabilised sinewave output controlled by a micro-processor.

Units in this range are robust and extremely light, weighing between 7 and 11kg. A variety of DC Inputs are available. The AC Output is provided via both a standard IEC socket and Phoenix-style connectors on most models. The user can easily adjust the protection limits and a variety of other parameters through the front panel. Up to five of these units can be operated in parallel. The load current is automatically shared by each inverter. This ability to increase the output power ensures that the system can be expanded as needs dictate.

- + Up to 5 Units can be Paralleled**
- + Robust IGBT End Stage**
- + Optional 60Hz Frequency**
- + No 50Hz Transformer**
- + Efficiency Over 88%**

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FURTHER DETAILS

The wide operating temperature and excellent efficiency also help to ensure that this inverter range is ideal in numerous applications.

SELECTION TABLE

Part Number	Maximum Power ¹	Input Voltage	Output Voltage ²	Output Frequency ²
INV-P 500-24	500VA	24VDC	230VAC	50Hz
INV-P 500-48-60	500VA	48/60VDC	230VAC	50Hz
INV-P 500-110	500VA	110VDC	230VAC	50Hz
INV-P 500-220	500VA	220VDC	230VAC	50Hz
INV-P 1000-24	1000VA	24VDC	230VAC	50Hz
INV-P 1000-48-60	1000VA	48/60VDC	230VAC	50Hz
INV-P 1000-72	1000VA	72VDC	230VAC	50Hz
INV-P 1000-110	1000VA	110VDC	230VAC	50Hz
INV-P 1000-220	1000VA	220VDC	230VAC	50Hz
INV-P 2000-24	2000VA	24VDC	230VAC	50Hz
INV-P 2000-48-60	2000VA	48/60VDC	230VAC	50Hz
INV-P 2000-110	2000VA	110VDC	230VAC	50Hz
INV-P 2000-220	2000VA	220VDC	230VAC	50Hz
INV-P 4000-48-60	4000VA	48/60VDC	230VAC	50Hz
INV-P 4000-110	4000VA	110VDC	230VAC	50Hz
INV-P 4000-220	4000VA	220VDC	230VAC	50Hz
INV-P 4000-540	4000VA	540VDC	230VAC	50Hz

¹This is the maximum continuous apparent power at max PF. ²Different output voltage and frequencies are possible. Please contact ETPS to discuss your requirements.

OPTIONS

CODE	DESCRIPTION
/1	Unit built with 115VAC, 60Hz output (not available for INV-P 4000 units)
/2	Unit built with connectors mounted on rear of unit (not possible with option /L*)
/3	Unit built with 230VAC, 60Hz output
/L	LAN interface for remote setting and measurement (INV-P 2000 or INV-P 4000)

*Due to necessary prototyping, at present only the INV-P 4000-100 is available with rear mounted LAN interface. Feasibility for other models will be considered upon request.

TECHNICAL DATA

	INV-P 500	INV-P 1000	INV-P 2000	INV-P 4000
Maximum Continuous True Power	400W	800W	1600W	3200W
Permissible Power Factor	-0.8 to +0.8			
Maximum Continuous Apparent Power	500VA	1000VA	2000VA	4000VA
Voltage	230VAC, failure tolerance $\pm 5\%$ [Option /1 for 115VAC, 60Hz]			
Frequency	50Hz [Option /1 for 115VAC, 60Hz], sinewave processor controlled			
Load Range	0 - 100%			
Crestfactor	>2.5			
Harmonic Distortion	<2%			

INPUT RANGE

24VDC	19 - 31VDC
48/60VDC	38 - 72VDC
72VDC	60 - 90VDC
110VDC	88 - 132VDC
220VDC	178 - 264VDC
540VDC	350 - 750VDC [4kVA units only]

GENERAL

Electrical Safety	EN 60950, VDE 0805 (overload & short circuit protected)		
Efficiency	>88% at nominal load		
Galvanic Isolation	3.75kVDC		
EMC [Emission]	EN 50081-1, Curve EN 55022B		
EMC [Immunity]	EN 50082-2		
Operating Temperature (non condensing)	-5°C to +45°C	-5°C to +55°C	
Over-Temperature Derating [2%/K derating]	-45°C to 70°C	-55% to +70°C	

HOUSING

Casing	19" rack with mounting flanges		
Size	19" x 3U x 240mm [W x H x D]	19" x 3U x 360mm [W x H x D]	
Weight	Approx. 7kg	Approx. 7.5kg	Approx. 11kg
Classification	IP 20		
Ventilation	Internal fan		

ELECTRICAL CONNECTIONS

Connector Position	Front of unit [Option /2 for rear of unit]		
DC Input (at 24, 48/60, 72VDC)	3 x high current terminal blocks 16mm		
DC Input (at 110, 220VDC)	3 x high current terminal blocks 16mm	Phoenix Power Combicon	3 x high current terminal blocks 16mm
AC Output [parallel-mains]	2 x Phoenix Power Combicon plugs		1 x Phoenix Power Combicon
AC Output [parallel-signal]	2 x RJ45 S-UTP, 1 x appliance outlet		2 x Phoenix Power Subcon
Alarm	Phoenix Power Combicon plugs		Binder round connector

OTHER

Optical Signals	LCD dot matrix display	LEDs for load display, PG/ON
Signal Output	Voltage free alarm contact for loss of output	
Accessories	push button for setup, main switch	
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.



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ETPS engineer electronic power supply and testing systems. Our problem solving skills provide the spark of innovation to some of the world's leading technology brands.



Tel: +44 (0) 1246 452909
Sales: 0800 612 95 75
sales@etps.co.uk
www.etps.co.uk

ETPS Ltd
Unit 14, The Bridge
Beresford Way, Chesterfield
S41 9FG



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