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INV-P Rackmounting DC/AC Sinewave Inverter

Description

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 11kgs. 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. The wide operating temperature and excellent efficiency also help to ensure that this inverter range is ideal in numerous applications.



- Up to 5 units can be paralleled
- Robust IGBT end stage
- Low output impedance
- No 50Hz transformer
- Efficiency over 88%

Selection Table

Part Number	Maximum Power	Input Voltage	Output Voltage	Output Frequency
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 2000-72	2000VA	72VDC	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

*Different output voltages and frequencies are possible. Please contact ET to discuss your requirements.



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INV-P Rackmounting DC/AC Sinewave Inverter

Technical Data

	INV-P-500	INV-P-1000	INV-P-2000	INV-P-4000
Output				
Output Power	500VA/400W	1kVA/800W	2kVA/1600W	4kVA/3200W
Voltage	230VAC, failure tolerance $\pm 5\%$ (Option /1 for 115VAC, 60Hz)			
Frequency	50Hz (Option /1 for 115VAC, 60Hz), sinewave processor controlled			
Power Factor	0.8			
Load Range	0 - 100%			
Crestfactor	> 2.5			
Harmonic Distortion	< 2%			
Input Range				
24VDC	24 (19 - 31)VDC			
48/60VDC	48/60 (38 - 72)VDC			
72VDC	72 (60 - 90)VDC			
110VDC	110 (88 - 132)VDC			
220VDC	220 (178 - 264)VDC			
General				
Electrical Safety	EN 60950, VDE 0805 (overload & short-circuit protected)			
Efficiency	>88% at nominal load			
Galvanic Isolation	3.75 kVDC			
EMC (Emission)	EN 50081-1, Curve EN 55022B			
EMC (Immunity)	EN 50082-2			
Operating Temperature	-5 to +45 °C (non-condensing)		-5 to +55 °C (non-condensing)	
Over-Temperature Derating	+45 to +70 °C (2%/K derating)		+55% to +70 °C (2%/K derating)	
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 (optionally rear of unit)			
DC Input (at 24, 48/60, 72VDC)	3 x high current terminal blocks 16mm ²			
DC Input (at 110, 220VDC)	3 x high current terminal blocks 16mm ²	Phoenix Power Combicon	3 x high current terminal blocks 16mm ²	
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 plugs	
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			
Operation	push-button for setup, main switch			
Warranty	2 Years			

Options Table

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

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET 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. ET 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.