ELECTRONIC TEST & POWER SYSTEMS

INV-R-6000

HEAVY DUTY INVERTER

POSITIVE PROBLEM SOLVING

The INV-R-6000 is an extremely robust DC/AC Inverter. The unit operates within a wide ambient temperature range from as low as -40°C to as high as +60°C.

Excellent shock and vibration figures make this unit ideal for mobile as well as static installations. These inverters are built to EN50155 ensuring their suitability for railroad and locomotive applications. A rugged case also provides additional resistance to the rigours of harsh environments. The INV-R-6000 produces a stabilised true sinewave controlled via a microprocessor. Potential free alarm contacts are provided for signalling failure. The output can be enabled or disabled remotely via a galvanically isolated control input.

- Ideal for Vehicle Mount Applications
- Operates between -40°C to +60°C
- Short Circuit & Overload Protection
- Sub Chassis Mounting

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FURTHER DETAILS

The units have an overload capability of up to 1½ times the nominal output power. If the overload is experienced for an extended time period then the unit will switch off to protect itself. After approximately 120 seconds have elapsed the inverter will attempt to restart automatically.

SELECTION TABLE

Part Number	Maximum Power[1]	Input Voltage	Output Voltage[2]	Output Frequency[2]
INV-R-6000 110-230	6000VA	110VDC	230VAC	50Hz

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

TECHNICAL DATA

GENERAL	
Electrical Safety	EN 50124 (overload and short circuit protected)
EMC	EN 50121-3-2 with additional EMC (specification A62Z00031726842A)
INPUT	
Input Voltage Nom.	110VDC
Input Range	77 - 164VDC
OUTPUT	
Output Voltage Nom.	230VAC, single phase
Output Frequency	50Hz
Voltage Stability	±5%
Efficiency	>88%
Output Power Max.	6000VA / 4800W
Output Current	50A
Power Factor	-0.6 to +0.6
Output Current	Nominal 21A
Short Circuit Current	50A
Load Range	0 - 100%
Crest Factor	>2
Harmonic Distortion	<5%
Overload Capacity	1.50 × P_{NOM} for 3sec, 1.66 × P_{NOM} for 1sec
Restart After Overload	After 30 seconds
HOUSING	
Casing	Sheet steel, galvanised
Dimensions	600 × 400 × 400mm (W × H × D)
Weight	Approx. 42kg
Protection	IP 54
Cooling	Chassis mounted fan, controlled externally
CONNECTING TERMINALS	
Input: DC in	HAN modular 100A 2-pole
Input: AC in (fan)	HAN Q5
Signal	HAN EEE 20-pole
LAN	RJ45
Output: AC out	HAN Q2
AMBIENT CONDITIONS	
Operating Temperature	-40°C to +60°C, acc EN 50155
Relative Humidity	According to EN 50155
Shock and Vibration	According to EN 61373
OTHER	
Control Voltage	100V / 0.5A
Signal: Output	6 × 1-pole switch, max. 110VDC/0.2A
Signal: Input	3 × Potential free input
Display	7 segment, 4 digits
Interface	SNMP / web client
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.

“WE ARE POSITIVE PEOPLE”

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.

ETPS
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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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