

# PowerVerter PV12i-R

## voltage converter

from **AlfaTRONIX**



The unit has the following key benefits:

- Qualified to Railway Requirements
- Quick and easy to connect
- Power rating to 144W continuous (200W intermittent)
- Cool running switch mode design with efficiency typically 85%
- Internal protection against over current, transients and overheating.
- No quibble warranty

<b>Characteristics</b>	
Input Voltage Range	24Vdc nominal (16.8-32V)
Output Voltage	13.6Vdc + 15% and -30% at extremes of temperature, load, input tolerance, etc
Continuous Current Rating	13.6V output rated at 12A continuous
Intermittent Current Rating	13.6V output 18A taken for a maximum of 2 minutes followed by 8 minutes rest.
Transient Voltage Protection	Meets ISO7637-2 International Standard for 24V DC Commercial Vehicles.
Electro Static Voltage Protection	Meets ISO10605, ISO14892, >8kV contact, 15kV discharge.
Output Noise	<50mV pk-pk at continuous load. Meets CISPR25 and VDE0879-3..
Off load current (quiescent current)	<30mA. If connected to the battery, but not powering any equipment.
Power Conversion Efficiency	Typically 85%
Isolation	>400Vrms between input, output and case
Operating Temperature	-25°C to +30°C. +30°C to +80°C de-rate linearly to 0A
Storage Temperature	-25°C to +70°C
Operating Humidity	95% non-condensing.
Case Work	Anodized Aluminum, Dust, water and impact resistance IP533
Connections	4 off 6.3mm push on crimp connectors
Weight and Dimensions	Weight: 600g Dimensions 184 (L) x 87 (W) x 46 (H) mm
Mounting Method	2 off M6 mounting holes in each end bracket.
Safe Area Protection:	
<ul style="list-style-type: none"> <li>• Over Current</li> <li>• Over Heat</li> <li>• Transients</li> <li>• Reverse polarity</li> <li>• Catastrophic failure</li> </ul>	Limited by current sensing circuit Limited by temperature sensing circuit Protected by filters and rugged component selection Reverse polarity input protection Protected by input and output fuses
Approvals	89/336/EEC The General EMC Directive 95/54/EC The Automotive EMC Directive 93/68/EEC The CE Marking Directive
Tested to	EN50121-3-2 and EN50155:2001
Markings	CE marked and e marking (e11 020324)



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