

PowerVerter PV6i-R

voltage converter

from **AlfaTRONIX**

The unit has the following key benefits:

- Qualified to Railway Requirements
- Quick and easy to connect
- Power rating to 72W continuous (120W intermittent)
- Cool running switch mode design with efficiency typically 85%
- Internal protection against over current, transients and overheating.
- No quibble warranty



Characteristics	
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 6A continuous
Intermittent Current Rating	13.6V output 10A 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: 560g Dimensions 144 (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">• Over Current• Over Heat• Transients• Reverse polarity• Catastrophic failure	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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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

Characteristics	
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">• Over Current• Over Heat• Transients• Reverse polarity• Catastrophic failure	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
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