

# PowerVerter DD24-12 600 DC-DC voltage

converter from **AlfaTRONIX**

In addition to the regular range of 24Vdc –12Vdc converters in the PowerVerter range, covering currents from 3-24 Amps continuous, there is now a new model in the range with a continuous rating of 50 Amps called the DD24-12 600.

This unit is ideal for powering large pieces of 12Vdc equipment or multiple loads from 24Vdc systems on vehicles, vessels and aircraft.

The units have the following key benefits:

- Quick and easy to connect
- Power rating to 50 Amps continuous (60 Amps intermittent)
- Cool running switch mode design with efficiency >90%
- Low quiescent current (<50mA)
- Can be coupled in parallel for larger loads
- Internal protection against over voltage, short circuits, overload and overheating.
- No quibble warranty



<b>Characteristics</b>	
Input Voltage Range	24Vdc nominal (18-32V)
Output Voltage	13.6Vdc +/- 5%
Intermittent Output Power	Continuous rating +25%, taken for a maximum of 2 minutes followed by 8 minutes rest.
Transient Voltage Protection	Meets ISO7637-2 International Standard for 24Vdc 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)	<50mA. is connected to the battery, but not powering any equipment.
Power Conversion Efficiency	>90%
Operating Temperature	-25°C to +70°C
Storage Temperature	-25°C to +85°C
Operating Humidity	20% to 90% non-condensing
Case Work	Anodized Aluminum, Dust, water and impact resistance IP533
Connections	M6 screw terminals at both input and output.
Weight and Dimensions	Weight: 1180g Dimensions: 300 (L) x 76 (W) x 110 (H) mm
Operation Indicators	Yellow LED: indicates 24Vdc input Green LED: indicates 12V output Red LED: indicates a fault in the converter.
Mounting Method	Two mounting holes on main body of converter
Safe Area Protection:	<ul style="list-style-type: none"> <li>• Over Current Limited by current sensing circuit</li> <li>• Input Over voltage Limited by voltage control circuit &gt; 33V (auto reset)</li> <li>• Input under voltage Limited by voltage control circuit &lt; 18V (auto reset)</li> <li>• Output over voltage Limited by voltage control circuit &gt; 18V (auto reset)</li> <li>• Over Heat Limited by temperature sensing circuit &gt; 90° (auto reset)</li> <li>• Transients Protected by filters and rugged component selection</li> <li>• Catastrophic failure Protected by input and output fuses</li> </ul>
Approvals	2004/108/EC The General EMC Directive 2006/96/EC The Automotive EMC Directive (pending) 93/68/EEC The CE Marking Directive
Tested to	ISO7637, ISO10605, ISO11451, ISO11452, CISPR 25, VDE0879-3, EN60945 Annex A – the marine spec (under evaluation)
Markings	CE marked, e mark



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