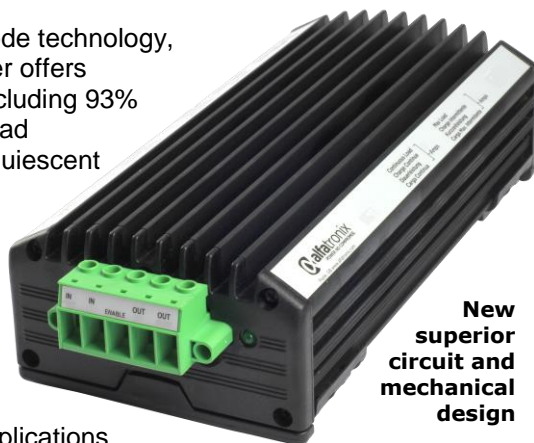


NEW 50Amp 24-12V PowerVerter Voltage Converter

PowerVerter PV50s

Using the latest in switchmode technology, our new 50Amp PowerVerter offers outstanding performance including 93% efficiency right across the load spectrum and a low 15mA quiescent current. It utilises our very successful 'I' shaped mounting cradle for fast, secure installation. Connection is by a screw secured quality connector (female section included) for reliable wiring. Suitable for all 24-12Vdc applications where reliable higher power is required. Output can be switched on/off using low power enable line.



New superior circuit and mechanical design

Innovative New Design

- State of the art switchmode electronic circuit
- All SMT component assembly for fully automated manufacture
- 93% efficient
- IP53 design – no fan or ventilation holes
- 15mA quiescent circuit but enable feature if required
- Quality casing design in aluminium and glass filled polycarbonate (V0 rated)
- 'I' shaped four hole polycarbonate mounting clip for fast and reliable installation

Technical Data

PV50s	50A/60A non-isolated	24Vdc input, 12Vdc output nominal	283 x 125 x 74mm	1780g
Input voltage range	17-32Vdc			
Output voltage	13.6Vdc +/- 5% at extremes of temperature, load, input tolerance, etc.			
Intermittent output power	As stated, taken for a maximum of 2 minutes followed by 8 minutes rest.			
Transient voltage protection	Designed to ISO7637-2 International standard for 24Vdc commercial vehicles			
Electrostatic voltage protection	Designed to ISO10605, ISO14892, >8kV contact, 15kV discharge			
Output noise	<50mV pk-pk (100mV on 24V units) at continuous load. Meets CISPR25 and VDE0879-3			
Off load current (quiescent current)	<15mA			
Power conversion efficiency	Typically: 93%			
Mean time between failures	>162 years (HRD4)			
Operating temperature	-25°C to +30°C to meet this specification table +30°C to +100°C de rate linearly to 0A			
Storage temperature	-25°C to +100°C			
Operating humidity	95% max., non-condensing			
Casework	Anodised aluminium, glass filled polycarbonate, dust water and impact resistance to IP533			
Connections	Five terminal connector with screw security (female mating half supplied)			
Output indicator	Green LED adjacent to output terminals			
Mounting method	'Click 'n' fit four hole 'I' shaped mounting clip			
Safe area protection: Over current	Limited by current sensing circuit			
Over heat	Limited by temperature sensing circuit			
Transients	Protected by filters and rugged component selection			
Catastrophic failure	Protected by electronic input and output fuses (non accessible)			
Approvals (pending)	2004/108/EC The general EMC directive 2009/19/EC The automotive directive 93/68/EEC The CE marking directive			
Markings	CE and e marks pending			



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