PowerVerter 24Vdc to 12Vdc Voltage Converters

PV12i 2AV DC - 12V DC Converter Convertisseur Wandler C Continue Continue Continue Continue Dominication 12 Amp Dominication 12 Amp Dominication 12 Amp Dominication 13 Amp Later Continue Continue Continue Dominication 14 Amp Dominication 15 Amp Dominication 17 Amp Dominication 18 Amp Later Continue Continue

24Vdc - 12Vdc Voltage Converters

These products offer a convenient way to operate mass produced 12Vdc equipment such as cell phones, in car entertainment, professional communication and telematics equipment, refrigerators, televisions etc. from the 24Vdc mobile electrical systems found on diesel engined vehicles and vessels.

3Amp units are excellent for charging mobile phones, while 6A units suit a variety of mobile radio applications

A Comprehensive Range

There are 11 products in the range from 3A to 50A in isolated or common earth configurations. They have been optimised for high volume 24Vdc to 12Vdc applications such as on heavy goods vehicles, coaches, buses, construction, forestry and agricultural vehicles, commercial and leisure marine vessels.

Tamper Proof

There are no ventilation holes to permit stray objects, dust or water droplets to enter the case. There are no external fuses to be tampered with. Fuses will only blow if there is a fault so there is no need

is a fault so there is no need to make them accessible.

All PowerVerters are enclosed in a rugged aluminium extrusion. The low mass Surface Mount Technology components are also less prone to damage from vibration and shock, further increasing the reliability of the units.



All the units consume an off load current of less than 15mA, which is probably less than the self discharge current of the vehicle's battery. In most cases this can be ignored, speeding the installation by removing the need to fit a remote switch.

All products fit onto a 'Click 'n' Fit mounting clip which is fixed in three points allowing it to be mounted on uneven surfaces. It is easy to fit the clip into awkward places and then simply click the unit into position.

A red LED indicates when there is output from the converter. This gives reassurance to the installation enginer and speeds fault finding.



Galvanically isolated units are suitable for marine applications and come complete with the green tamperproof label for petrochemical applications.









- Easy 6 step Installation Method
- Find a convenient location away from sun and rain.
- Using the mounting clip as a template, mark fixing positions.
- 3. Drill screw holes.
- 4. Fix bracket using screws provided.
- 5. Clip PowerVerter to mounting bracket.
- 6. Correctly connect to load.













Product Variants

Many PowerVerters and DD Series products can be configured with alternative output voltages etc., for specialist applications. Please call our sales team to discuss your requirements.

Choose your *PowerVerter* **Product**

Part Number	Cont/Int Power	Nominal Voltage	Dimensions	Weight
PV3s	3A/6A non-isolated	24Vdc input, 12Vdc output	67 x 87 x 50mm	225g
PV6s	6A/10A non-isolated	24Vdc input, 12Vdc output	89 x 87 x 50mm	270g
PV12s	12A/18A non-isolated	24Vdc input, 12Vdc output	127 x 87 x 50mm	405g
PV18s	18A/22A non-isolated	24Vdc input, 12Vdc output	167 x 87 x 50mm	620g
PV24s	24A/30A non-isolated	24Vdc input, 12Vdc output	167 x 87 x 50mm	635g
PV3i	3A/6A Isolated	24Vdc input, 12Vdc output	89 x 87 x 50mm	290g
PV6i	6A/10A Isolated	24Vdc input, 12Vdc output	127 x 87 x 50mm	410g
PV12i	12A/18A Isolated	24Vdc input, 12Vdc output	167 x 87 x 50mm	590g
PV18i	18A/22A Isolated	24Vdc input, 12Vdc output	217 x 87 x 50mm	835g
PV24i	24A Isolated	24Vdc input, 12Vdc output	217 x 87 x 50mm	850g
PV12s-A	12A/18A Non-isolated	24Vdc-12Vdc dual output	127 x 87 x 50mm	420g
DD 24-12 600	50A/60A Non-isolated	24Vdc input, 12Vdc output	300 x 76 x 110mm	1180g

Other input and output voltage configurations are available as special orders, please ask our sales team

Technical Data

Tananh na lha a a mana a	17 2204-		
Input voltage range	17-32Vdc		
Output voltage	13.6Vdc +15% -20% 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	Meets ISO7637-2 International standard for 24Vdc commercial vehicles		
Electrostatic voltage protection	Meets 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: 90% for non-isolated units, 85% for isolated units		
Isolation	>400Vrms between input, output and case, on isolated products only		
Mean time between failures	>162 years (HRD4)		
Operating temperature	-25°C to +30°C to meet this specification table		
	+30°C to +80°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	Four 6.3mm push-on flat blade connectors		
Output indicator	Red LED adjacent to output terminals		
Mounting method	'Click 'n' fit mounting clip, fitted separately using three hole fixing		
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 internal input and output fuses		
Approvals	2004/108/EC The general EMC directive		
	2006/96/EC The automotive directive		
	93/68/EEC The CE marking directive		
Markings	CE and e marked		



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