

DC/DC converter

CPC 1500B

Description

The CPC 1500B Series is a DC to DC converter family, converting between -48V to +24V respectively +24V to -48V to power equipment with different supply voltages than the main battery system. The modular format offers easy scalability to achieve a multi-voltage power solution. The unique ultra high efficiency creates direct and indirect savings in the overall power conversion in rectifiers and cooling system as well. The compact size and the extended operating temperature range makes this series applicable for both indoor and outdoor applications.

Installation is simplified as all Delta converters have their connectors at rear and are hot-pluggable. Fan cooling with speed control ensures near silent operation.



Delta DC/DC converters are designed to provide reliable back-up power for equipment with different supply voltages.

Delta DC converters complete our InD and OutD systems to achieve total site power solutions globally.

Main features

- Energy saving – ultra high efficiency
- Space saving – high power density
- Applicable in outdoor - extended temperature range
- Up to 6 modules per 1U / 23in shelf
- Up to 5 modules per 1U / 19in shelf
- Easy installation, commissioning and maintenance

Applications

- CPC 1500B is used in Delta InD and OutD systems
- Wireless applications
- Transmission

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Technical Specifications

Input		
Input voltage		19 - 30 V ^{*1} / 38 - 60 V ^{*2}
EMI (conducted)		EN 55022, class A
Protection		Internal fuse
Output		
Factory default voltage		54 V ^{*1} / 27 V ^{*2}
Voltage configuration range		48 – 56 V ^{*1} / 24 – 28 V ^{*2} (With PSC 3 controller)
Power limitation		1500 W
Current limitation		29 A ^{*1} / 58 A ^{*2}
Overvoltage protection		59 ± 1 V ^{*1} / 29.5 ± 1 V ^{*2}
EMI (conducted)		EN 55022, class A
Load sharing		Yes
Protection		ORing
General		
Efficiency		94.3 % ^{*1} / 95 % ^{*2}
Power density		34 W / in ³
Control and monitoring		PSC 3
User interface		Status indication
Dimensions (W x H x D)		84.5 x 40 x 335 mm / 3.33 x 1.57 x 13.19 in
Weight		1.8 kg / 6.6 lb
Relative humidity		95 % max, non cond.
Standard		
• Safety		EN / IEC 60950 UL 60950 CAN / CSA - C22.2
• EMI (radiated)		EN 55022, class B
• Environment		RoHS compliant
Cooling		Fan cooled
Acoustics		50 dB (A)
Operating temperature		-40 to +75 °C / -40 to +167 °F
Ordering information		
Description ^{*1}		CPC 1500B-48
Description ^{*2}		CPC 1500B-24

Specs are subject to change without notice.

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