

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.

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

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

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.

Delta Energy Systems (Switzerland) AG
Freiburgstrasse 251, CH-3018 Bern - Bümpliz
Phone: +41 31 998 5311, Fax: +41 31 998 5353

