

Power system

CPS 1500B Series

Description

The CPS 1500B DC / DC converter shelf series belongs to the Delta CellD product series. The modular architecture enables the possibility to easily create dual voltage system solutions. This high power density system is ideal for space critical applications.

The shelf type of system in 23 inch and 19 inch standard includes up to six respectively five DC / DC converter modules. The shelf is universal design and can be equipped with either CPC 1500B - 48 or with CPC 1500B - 24 converter module to achieve either a 24V / 48V conversion respectively 48 V / 24 V conversion.

In addition, easy installation and expandability add to the success of the system. Delta is known for quality and product reliability, and to this solution has been added cost effectiveness.

The shelf systems provide full system function integration with Delta's rectifier and hybrid power solutions by using Orion / PSC 3 controller. With the available simple alarm board option, it is possible to create simple alarm logic for monitoring purposes of the DC/DC converters and load distribution fuses.



Main features

- Energy saving – ultra high efficiency
- Space saving – high power density
- Applicable in outdoor - extended temperature range
- 23inch / 1U shelf power system up to 9 kW
- 19inch / 1U shelf power system up to 7.5 kW
- Easy system integration with Orion / PSC 3 controller or with simple alarm interface
- Easy installation, commissioning and maintenance

Our product portfolio includes both indoor and outdoor power systems building on extensive R&D, modular production and customization. InD and OutD categories with CellD, MidD and CabD series can meet any of your size and location requirements.

CellD systems are small to fit into various applications. The products in this series are particularly for installations where space is limited. The power range of CellD series is typically 0.3 - 17.4 kW.

Applications

- Wireless applications
- Transmission
- Outdoor

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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}
	Power limitation – 23 inch	9000 W
	Power limitation – 19 inch	7500 W
	Current limitation – 23 inch	174 A ^{*1} / 348 A ^{*2}
	Current limitation – 19 inch	145 A ^{*1} / 290 A ^{*2}
General		
	Dimensions (W x H x D) 23 in	584.2 x 43.7 x 400.3 mm/23.00 x 1.72 x 15.88 in
	Weight, 23 inch shelf	5.5 kg / 12.1 lb
	Dimensions (W x H x D) 19 in	482.6 x 43.7 x 400.3 mm/19.00 x 1.72 x 15.88 in
	Weight, 19 inch shelf	4.8 kg / 10.6 lb
	Efficiency	94.3 % ^{*1} / 95 % ^{*2}
	Ambient temperature	-40 to +75 °C / -40 to +167 °F
	Relative humidity	95 % max, non cond.
	Safety	EN / IEC 60950
		UL 60950
		CAN / CSA - C22.2
	Applicable controller	Orion / PSC 3 or simple alarm board (not included in shelf)
	Applicable DC / DC converters	CPC 1500B - 48 ^{*1}
		CPC 1500B - 24 ^{*2}
Ordering information		
	System product line number	CPS 1500B-48-24-5CS 19in shelf
		CPS 1500B-48-24-6CS 23in shelf
	Optional simple alarm board kit	379924700-S

Specs are subject to change without notice.