

# 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 a 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.



### 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 PSC 3 controller
- 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 <sup>*1</sup> / 38 - 60 V <sup>*2</sup>	
EMI (conducted)	EN 55022, class A	
Protection	Internal fuse	
Output		
Factory default voltage	54 V <sup>*1</sup> / 27 V <sup>*2</sup>	
Voltage configuration range	48 – 56 V <sup>*1</sup> / 24 – 28 V <sup>*2</sup>	
Power limitation – 23 inch	9000 W	
Power limitation – 19 inch	7500 W	
Current limitation – 23 inch	174 A <sup>*1</sup> / 348 A <sup>*2</sup>	
Current limitation – 19 inch	145 A <sup>*1</sup> / 290 A <sup>*2</sup>	
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 % <sup>*1</sup> / 95 % <sup>*2</sup>	
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	PSC 3 (not included in shelf)	
Applicable DC / DC converters	CPC 1500B - 48 <sup>*1</sup>	
	CPC 1500B - 24 <sup>*2</sup>	
Ordering information		
System product line number	CPS 1500B-48-24-5CS	19in shelf
	CPS 1500B-48-24-6CS	23in shelf

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

