CPS 1500B Series

Power System

Descriptions

The CPS 1500B DC / DC converter shelf series belongs to the Delta CellD product series. The modular architecture enables the possibility to easy 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

Applications

- Wireless applications
- Transmission
- Outdoor

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Technical specifications

1. Input

Input voltage	19 - 30 V [*1] / 38 - 60 V [*2]
EMI (conducted)	EN 55022, class A
Protection	Internal fuse

2. 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]

3. 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]

4. 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

*All specifications are subject to change without prior notice.

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