Rectifier
DPR 4000B

Description

The DPR 4000B Series is a single phase rectifier with outstanding efficiency and power density. Beside the energy saving by power conversion, the extended temperature range support significant additional energy saving opportunity for the site cooling. The wide input voltage range and inbuilt AC overvoltage protection make this product very robust for regions with difficult AC utility quality. The powerful rectifier provides the necessary power for fast battery charging in emerging markets with the best possible system configuration.

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

The advantages of the product are the compact-ness for applications requiring medium to high power.

Main features

- Energy saving – leading edge efficiency
- Advanced energy saving functionality
- Space savings – leading edge power density up to 24kW / 500 A per 23in shelf
- Wide AC input voltage range
- Protection against loss of Neutral and AC overvoltage
- Extended operating temperature range

Applications

DPR 4000B is used in Delta MidD, CabD and OutD systems for:

- Wireless base stations
- Wireless network core infrastructure – MSC, BSC
- Fixed line applications, data communications
- Data centres

Delta rectifiers are market leaders in power density offering solutions for compact space and weight requirements. In addition to that, the highest efficiency ensures lower total energy consumption and leads to smaller environmental footprint.

With a focus on continuous improvement of total cost of ownership, Delta rectifiers combined with advanced controlling and monitoring units help reducing both CAPEX and OPEX. The EnergE rectifiers meet the new standard of energy efficiency.

EnergE

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Technical specifications

1. Input	
Mains voltage	80 - 300 Vrms
Mains frequency	50 / 60 Hz
Harmonic distortion (THD)	5 %
EMI (conducted)	EN 55022, class B
Protection	Internal fuse 2 x 30 A
AC over voltage protection	Incl. loss of neutral

2. Output	
Nominal system voltage	53.5 V
Operating voltage range	42 - 58 V
Power limitation	4050 W
Current limitation	83.3 A
Overvoltage protection	59 V
EMI (conducted)	EN 55022, class A
Load sharing	yes
Protection	Internal fuse

Ordering information	
Description	DPR 4000B-48

3. General	
Efficiency	95.2 %
Power density	27.3 W/in^3
Control and monitoring	PSC 3
User interface	Output current display Status indication
Dimensions (W x H x D)	82 x 86.9 x 377.9 mm 3.23 x 3.43 x 14.88 in
Weight	3.5 kg 7.7 lb
Standards	
• 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	-45 to +75 °C -49 to +167 °F

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

www.deltapowersolutions.com