

Rectifier DPR 300

Description

The DPR 300 Series is a single phase rectifier with outstanding power density. This rectifier is optimal for 1U or 2U shelf solutions. Its short depth and extended operating temperature range make it most suitable for space-critical and pole-mount applications.

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.

Main features

- Energy saving – leading edge efficiency
- Space savings – leading edge power density
- Wide AC input voltage range
- Optional protection against loss of Neutral and AC overvoltage
- Extended operating temperature range
- Very low audible noise

Applications

DPR 300 is used in Delta InD and OutD systems for:

- Micro base stations
- Wireless applications, Wimax
- Fixed line applications, data communications



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.

Rectifier DPR 300

Technical specifications

1. Input	
Mains voltage	80 - 300 Vrms ^{*1} 90 - 310 Vrms ^{*2}
Mains frequency	50 / 60 Hz
Harmonic distortion (THD)	5 %
EMI (conducted)	EN 55022, class B
Protection	Internal fuse
AC over voltage protection	Incl. loss of neutral ^{*2}

2. Output	
Nominal system voltage	53.5 V ^{*1} / 54 V ^{*2}
Operating voltage range	42 - 58 V
Power limitation	300 W
Current limitation	7 A ^{*1} / 6.25 A ^{*2}
Overvoltage protection	59 V ^{*1} / 59.5 V ^{*2}
EMI (conducted)	EN 55022, class A
Load sharing	Yes
Protection	Internal fuse

Ordering information	
Description ^{*1}	DPR 300B-48
Description ^{*2}	DPR 300C-48 / ESR 48/06 A A

3. General	
Efficiency	91.5 % ^{*1} / 88 % ^{*2}
Power density	7 W / in ³
Control and monitoring	PSC 1 ^{*1} PSC 3 ^{*1} CSU 502 ^{*2}
User interface	Output current display ^{*1} Status indication
Dimensions (W x H x D)	40.5 x 86.4 x 231.9 mm ^{*1} 1.6 x 5.2 x 9.15 in ^{*1} 75 x 40.5 x 220 mm ^{*2} 2.95 x 1.6 x 8.66 in ^{*2}
Weight	0.9 kg / 2.0 lb ^{*1} 1.0 kg / 2.2 lb ^{*2}
Standards	
<ul style="list-style-type: none"> Safety 	EN / IEC 60950 UL 60950 CAN / CSA - C22.2
<ul style="list-style-type: none"> EMI (radiated) 	EN 55022, class B
<ul style="list-style-type: none"> Environment 	RoHS compliant
Cooling	Fan cooled
Acoustics	45 dB (A) ^{*1} / 50 dB (A) ^{*2}
Operating temperature	-40 to +75 °C -40 to +167 °F

Subject to change without notice.



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