

Rectifier DPR 2900

Description

The DPR 2900 rectifier is part of Delta's Energy Series with 96 %, high efficiency standard. Combined with market's leading power density Delta DPR 2900 is ensuring cutting edge total energy efficiency. The robustness to operate in harsh temperature environment allows increasing temperature settings of the cooling infrastructure, which bring additional energy saving in the installation. This rectifier is optimal for 1U solutions and provides 11.6kW in one shelf.

Installation is simplified as all Delta rectifiers have their connectors at rear and are hot-pluggable. Retrofit is easy ensuring new level efficiency.

Main features

- OPEX & energy saving – leading efficiency 96.2 %
- OPEX saving – extended temperature range
- Space saving – world's leading packaging of high efficiency technology – up to 11.6kW in 1U shelf
- Power density 36.5 W / in³
- Easy retrofit to existing DPR 2700 Series installations
- Integrated AC overvoltage protection

Applications

DPR 2900 is used in Delta InD and OutD systems for:

- Network base stations
- Wireless applications
- 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's total cost of ownership concept covers the highest energy efficiency and power density rectifiers, advanced controlling and monitoring. Leading system level efficiency is unconditional way to reduce environmental footprint and help reducing both CAPEX and OPEX. The Energy rectifiers meet the new standard of energy efficiency.



Rectifier DPR 2900

Technical specifications

1. Input

Mains voltage	88 - 310 Vrms
Mains frequency	50 / 60 Hz
Harmonic distortion (THD)	5 %
EMI (conducted)	EN 55022, class B
Protection	Internal fuse 20 A
AC over voltage protection	Incl. loss of neutral

2. Output

Nominal system voltage	54 V
Operating voltage range	42 - 58 V
Power limitation	2900 W
Current limitation	56.25 A
Overvoltage protection	59 V
EMI (conducted)	EN 55022, class A
Load sharing	Yes
Protection	Internal fuse

Ordering information

Description ^{*1}	DPR 2900B-48 / ESR-48/56B F
Description ^{*2}	DPR 2900C-48 / ESR-48/56B A

3. General

Efficiency	96.2 %
Power density	36.5 W / in ³
Control and monitoring	PSC 3 ^{*1} CSU 501 ^{*2} CSU 502 ^{*2}
User interface	Status indication
Dimensions (W x H x D)	125.5 x 41.0 x 269.9 mm 4.9 x 1.6 x 10.6 in
Weight	2.0 kg / 4.4 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	55 dB (A)
Operating temperature	-40 to +75 °C -40 to +167 °F

Subject to change without notice.



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