

# Rectifier Shelf DPS 1200B-48-3RS 19IN

The Power behind.



## Main features

- Modular structure
- 19" rectifier shelf / 1 U
- Short depth
- Easy to stack shelves
- Up to 3.6 kW installed power
- Fan cooled rectifiers DPR 1200B-48
- Hot pluggable, all connectors at the rear
- Efficiency <sup>3</sup> 91%

## Applications

- Indoor and outdoor
- Digital subscriber line (DSL)
- Transmission, PBX
- Telecom, wireless, datacom

## Description

The DPS 1200B-48-3RS 19IN is a very compact and short 19" / 1U shelf for three DPR 1200B-48 rectifiers. The modular design allows flexible power system solutions in 19" standard cabinets, offering a cost effective and reliable solution. The DPS 1200B-48-3RS 19IN can be applied with various types of standard or customized distribution units with PSC 1000 or PSC 3 power system controllers.

The typical applications for this rectifier shelf are both in indoor and outdoor environments, which is a perfect solution for digital subscriber line (DSL), transmission, PBX, wireless base stations, core network components, telecommunications networks and data networks.

# Rectifier Shelf DPS 1200B-48-3RS 19IN

## Technical Specifications

General	
Efficiency	≥ 91%
Losses, max.	405 W (3 rectifiers)
Safety	IEC / EN 60 950
EMC	EN 300 386-2
Cooling	Fan cooled rectifiers
Protection	IP 20

Input	
AC connection	3 / 400 V / N / PE
Nominal voltage	230 V <sub>rms</sub> (L-N)
Voltage range	88 ... 300 V <sub>rms</sub>
Range, reduced power	88 ... 184 V <sub>rms</sub>
Voltage range, no PFC	276 ... 300 V <sub>rms</sub>
Frequency range	45 ... 66 Hz
Current nominal	2.8 A <sub>rms</sub> @ 1.2 kW / phase
Current maximum	7.5 A <sub>rms</sub> @ 1.2 kW / phase
Inrush current	< 10 A <sub>peak</sub> per phase
Line current	Meets IEC 1000-3-2
Harmonic distort. THD	< 5 %
Mains terminal	Max. 5 x 2.5 mm <sup>2</sup>
Input protection, recom.	Internal fuse in each rect.

Output	
Voltage nominal	53.5 V <sub>DC</sub>
Voltage range	42 ... 58 V <sub>DC</sub>
Voltage error, static	± 250 m V <sub>DC</sub>
Overvoltage protection	59 V ± 1 V
Ripple + spikes	≤ 200 mV <sub>p-p</sub>
Psophometric noise	≤ 1.0 mV <sub>rms</sub> (weighted)
Nominal current	67 A <sub>DC</sub> @ 3.6 kW, 53.5 V
Current limit, maximum	84 A <sub>DC</sub> @ 3.6 kW, 43.0 V
Power, nominal	3.6 kW
Power, redundant	2.4 kW
Output terminal	Varies - direct copper busbar or - cable connection points
Output protection	Internal fuse in each rect.

Mechanics	
Construction	Steel frame
Cabinet standard	19"
Height, overall	44.45 mm (1U)
Width, body	444 mm (19")
Depth, overall	280 mm
Weight, shelf	TBD
Weight, rectifiers	3 x 1.25 kg

Environment	
Ambient temperature	-25 ... +75°C
Reduced power	+65 ... +75°C
Relative humidity	95% max. non cond.

Options	
Number of rectifiers	1 ... 3
Alternative AC connect.	3 / 120 V / PE

Accessories	
Distribution	DPD 200 19IN-3U DPD 250 19IN-5U

Subject to change due to technical progress.