

The power advantage ...

Rectifier DPR 1200B-48



Features

- Very high power density 1100 W/l - 18 W/in³
- High efficiency ³ 91%
- Hot pluggable, all connectors at the rear
- Fan cooled with air flow monitoring
- Wide input voltage range: 88 - 300 V_{rms}
- Power factor ~ 1.0 (sinusoidal input current)
- Constant output power characteristic
- System bus: analogue / digital
- Operating temperature range up to 75°C

Applications

- Digital subscriber line (DSL)
- Transmission
- PBX
- Wireless base stations
- Network components

Description

The rectifier DPR 1200B-48 is a single phase, hot-pluggable, fan-cooled rectifier. The outstanding power density of this product offers the optimum 1U or 3U shelf solution for space critical applications. The constant output power characteristic supplies the specified power over the full output voltage range. The benefit is an optimised modular system design (fewer number of modules) and matches the supply requirements for state-of-the-art telecom equipment. These performances as well as the extended temperature range, wide input voltage range and advanced technology (patented solution) are the key factors of the success of this rectifier and it offers a cost effective and reliable solution.

The typical applications for this rectifier 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, telecommunication networks and data networks.

The rectifier meets the requirements set by the telecommunication standards.

DPR 1200B-48: Technical specifications

General

Efficiency	≥ 91 %
Losses, max.	135 W
Safety	EN 60 950, class I UL 60 950 CAN / CSA – C22.2
EMI, radiated	EN 55 022, class B
Compliant with	EN 300 386-2
Cooling	Fan cooled
Power density	1100 W / l 18 W / in ³
Acoustic noise	48 dB(A)

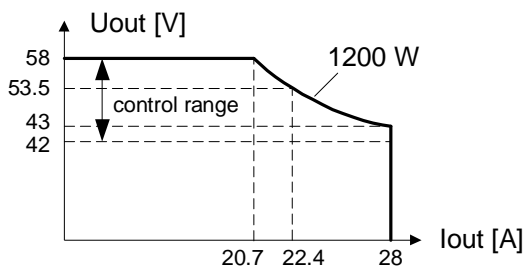
Input

Voltage range	88 ... 300 V _{rms}
Volt. range, red. power	88 ... 184 V _{rms}
Inrush current	10.6 A _{peak}
Current maximum	7.5 A _{rms}
Line current	Meets IEC 1000-3-2
Harmonic distort. THD	< 5 %
Power factor	~ 1.0
EMI, conducted	EN 55 022, class B
Mains connector	Rear side
Input protection	Internal fuse 2 x 10 A
Input switch	None

Output

Voltage, nominal	53.5 V _{dc}
Voltage adjust range	42 ... 58 V _{dc}
Voltage error, static	± 250 mV _{dc}
Overvoltage protection	59 V ± 1 V
Ripple + spikes	£ 100 mV _{p-p}
Psophometric noise	£ 1.0 mV _{rms} (weighted)
EMI, conducted	EN 55 022, class A
Current limit, nominal	28 A _{dc}
Limit adjustment range	0 ... 28 A _{dc}
Load sharing	< ± 2 A _{dc}
Power limit	1200 W, fixed
Output connector	Rear side
Output protection	Internal fuse 40 A

Output characteristic:



User interface

Output current display	LED bar
Status indication	LED «ok» LED «OVP»* LED «Overtemp»* LED «Fan failure»*

* Status indication integrated in the LED bar

Power system controller

PSC 1000	Voltage programming Rectifier fail alarm
PSC 3	Voltage programming Curr. limit programming Power limit programming Rectifier fail alarm Rectifier start up Rectifier on/off

Mechanics

Width, overall	40.8 mm (1U)
Height, overall	132 mm (3U)
Depth, overall	232.5 mm
Weight	1.25 kg

Environment

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

Accessories

Single backplane	P/N: D0106218
Triple backplane	P/N: D0112006
Blank panel	P/N: D0112127

Subject to change due to technical progress