

Rectifier DPR 600B – 48



Illustrative photo

General Features

- Very high power density 854 W/l (14 W/in³)
- High efficiency $\geq 92\%$
- Hot pluggable, all connectors at the rear
- Fan cooled with air flow monitoring
- Very low acoustic noise < 50 dB(A)
- Universal input voltage range: 80 - 300 Vrms
- Power factor ~ 1.0 (sinusoidal input current)
- Constant output power characteristic
- Very short depth
- System bus: analog / digital
- Operating temperature range up to 75°C (167 °F)
- Usable with control unit PSC 1 / PSC 3 / PSC 1000

Applications

- DSL (Digital subscriber line)
- Data transmission, PBX
- Telecommunication and dating networks

Description

The rectifier DPR 600B-48 is a single phase, hot-pluggable, fan-cooled rectifier. The outstanding power density of this product offers the optimum 1U or 2U shelf solution for space critical applications. The constant output power characteristic as well as the extended temperature range, wide input voltage range and advanced technology are the key factors of the success of this rectifier and it offers a cost effective and reliable solution.

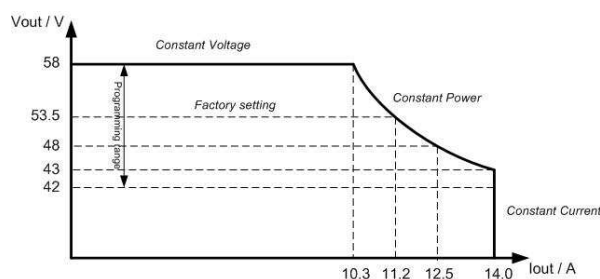
Technical data

General	
Efficiency	≥92%
Losses, max.	90 W
Safety	EN EN 60 950, class I UL 60 950 CAN / CSA – C22.2
EMI, radiated	EN 55022, class B
Compliant with	EN 300386-2
Cooling	Fan cooled
Power density	854 W / l (14 W / inch ³)
Acoustic noise	50 dB(A)

Input	
Voltage range	80 to 300 V _{RMS}
Voltage range, reduced power	80 to 130 V _{RMS}
Inrush current	20 A _{PEAK}
Maximum current	6 A _{RMS}
Line current	IEC 1000-3-2
Harmonic distort. THD	< 5%
Power factor	~ 1,0
EMI, conducted	EN 55022, class B
Mains connector	Rear side
Input protection	Internal fuse 2 x 8 A
Input switch	None

Output	
Nominal voltage	53.5 V _{DC}
Voltage adjust range	42 to 58 V _{DC}
Voltage regulation	± 250 mV _{DC}
Overvoltage protection	59 ± 1 V _{DC}
Ripples + spikes	≤ 100 mV _{PP}
Psophometric noise	≤ 1,0 mV _{RMS} (weighted)
EMI, conducted	EN 55022, class A
Current limit, nominal	14 A _{DC}
Limit adjustment range	0 to 14 A _{DC}
Load sharing	≤ ± 1 A _{DC}
Power limit	600 W
Output connector	Rear side
Output protection	Internal fuse 20 A

Output characteristics:



User Interface	
Output current display	LED bar
Status indication	LED "ok" LED "OVP" * LED "Overtemp" * LED "Fan failure" * * Indications in LED bar

Mechanics	
Width, overall	40,5 mm (1.59 in, 1U)
Height, overall	86,4 mm (3.40 in, 2U)
Depth, overall	231,9 mm (9.13 in)
Weight	0,9 kg (2,0 lb)

Environment	
Operating temperature	-25 to +75°C (-13 to +167°F)
Power derating	> +65°C / > +149°F
Relative humidity	95% max. Non cond.

Accessories	
Backplane	
Blank panel	

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