

Rectifier DPR 1800C-24SD (ESR-24/75A A)

The Power behind.



Main features

- Efficiency 89.5 %
- 1800W nominal output
- 1800W output for temperature up to 75°C
- Compact and light weight
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 310 V
- Power factor correction
- Constant output power characteristic
- Operating temperature range up to 75°C

Applications

- Indoor and outdoor
- Medium to large power systems
- Telecom, wireless, datacom, enterprise

Description

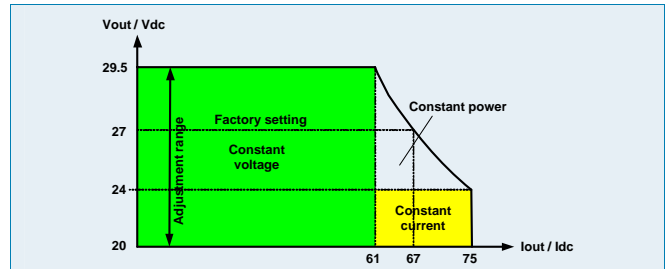
The rectifier DPR 1800C-24SD is a single phase, hot-pluggable, fan-cooled rectifier. The outstanding power density of this product offers the optimum 1U shelf solutions for easy integration into power systems. The constant output power characteristic supplies the specified power over the full output voltage range. The benefit is an optimised modular system design (fewer number of modules). These performances as well as the extended temperature range and wide input voltage range 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 wireless base stations, core network, telecommunication & data networks and central offices.

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Technical Specifications

General	
Efficiency	89.5%
Losses, max.	225 W
Safety	EN 60 950 UL 60 950 CAN / CSA – C22.2 TUV/CE
EMI, radiated Compliant with	FCC Part 15, class B CISPR 22, class B
Cooling	Fan cooled rectifier
Power density	21 W / inch ³
Acoustic noise	50 dB(A) at 25 Degree C



Input	
Voltage range	90 ... 310 V _{RMS}
Volt. range, red. power	90 ... 176 V _{RMS}
Inrush current	< 17.3 A
Harmonic distort. THD	< 5 %
Power factor	> 0.99
EMI, conducted	FCC Part 15, class B
Mains connector	Rear side
Input protection	Internal fuse 16A x 2
Input switch	None

Output	
Voltage, nominal	27 V _{DC}
Voltage adjust range	20 ... 29.5 V _{DC}
Voltage regulation	< ± 0.6 %
Overvoltage protection	29.5 V _{DC} ,
Ripple	≤ 100 mV _{p-p}
Psophometric noise	≤ 2.0 mV _{RMS} (weighted)
Current limit, nominal	66.7 A @ 27.0V _{DC}
Power limit	1800W (27V/66A) or 24V/75A
Load sharing	< ± 5 %
Output connector	Rear side
Output Protection	100AX1
Output characteristic:	

User interface	
Status indication	LED «AC ON», Green LED «RFA/FF», Red LED «CL», Yellow

Power system controller	
Applicable controller	CSU5 (System type) CSU501 (Case type) CSU502 (Case type)

Mechanics	
Width, overall	125.5 mm (4.94 in)
Height, overall	41.0 mm (1.61 in, 1U)
Depth, overall	269.9 mm (10.63 in)
Weight	2.0 kg (4.4 lb)

Environment	
Operating temperature	-20...+75 °C (-40...+167 °F)
Reduced power	+55...+75 °C (131...+167 °F)
Storage temperature	-40...+75 °C (-40...+167 °F)
Relative humidity	95 % max, non condensing
MTBF (Calculated)	300K hours (Telcordia SR-332)

Subject to change due to technical progress.