



The MCS 1800 series ...

Rectifier ESR 24 V - 50 A - D



Features

- Efficiency 88 %
- Compact (7.9 W / in³) and light (3.3 kg)
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 300 V_{rms}
- Power factor correction 0.99
- Constant current characteristic
- Operating temperature range up to 65°C
- Intelligent micro-processor controlled

Applications

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

Description

The rectifier ESR 24 V - 50 A - D is a single phase, hot-pluggable, fan-cooled rectifier. The constant output current 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. This performance as well as the extended temperature range, wide input voltage range, high power density and advanced technology 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 components, telecommunications networks and data networks.



ESR 24 V - 50 A - D: Technical specifications

General

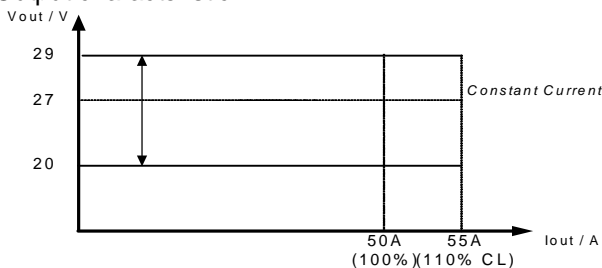
Efficiency, at 220Vrms	88 %
Safety	EN 60950 IEC 60950 UL 60950 CAN/CSA-C22.2 No. 60950
EMI, radiated	FCC Part 15, class A
Compliant with	EN 55022, class A
Cooling	Fan cooled
Acoustic noise	55 dB(A)
Power density	7.9 W / in ³ , 482 W / l

Input

Voltage range	90 ... 275 V _{rms} (300 V _{rms} , no damage)
Volt. range, red. power	90 ... 176 V _{rms}
Inrush current	< 12 A _{peak}
Current maximum	12 A _{rms}
Power factor	> 0.99
Line current	Meets IEC 1000-3-2
Harmonic distort. THD	5 %
EMI, conducted	FCC Part 15, class A
Compliant with	EN 55022, class A
Mains connector	Rear side
Input protection	Internal fuse 20 A
Input switch	15A

Output

Voltage, nominal	27 V _{dc}
Voltage adjust range	20 ... 29 V _{dc}
Load regulation	< ± 0.5 %
Line regulation	< ± 0.1 %
Overvoltage protection	29.5 V ± 0.5V
Ripple + spikes	£ 100 mV _{p-p}
Psophometric noise	£ 2.0 mV _{rms} (weighted)
Current limit, nominal	55 A _{dc}
Load sharing	< ± 5%
Power limit	1400 W
Output connector	Rear side
Output protection	Internal fuse 100 A
Output characteristic:	



User Interface

Status indication	LED «AC ON» LED «C.L.» LED «RFA»
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Power system controller

Intelligent CSU	
Smart CSU	
PSC1000	

Mechanics

Width, overall	3.3" / 84 mm
Depth, overall	11.7" / 299 mm
Height, overall	5.2" / 132 mm
Weight	7.26lb / 3.3 kg

Environment

Operating temperature	- 5 ... + 65 °C
Reduced power	+ 55 ...+ 65 °C (CSU control)
Relative humidity	95 % max, non condensing
Altitude	- 500 ~ 10000 feet

*Specifications are subject to change due to technical progress