



# The MCS 1800-24V Rectifier



## Description:

The MCS 1800-24V rectifier is a single phase, hot-pluggable, fan-cooled rectifier. The constant output current rectifier supplies the specified power over the full output voltage range. The highly compact design and wide temperature operating range makes this rectifier a great choice for outdoor cabinet applications. Combined with several shelf options, this high density power rectifier is optimum for any low power application.

## Features

- Efficiency 88 %
- Compact (7.9 W / in<sup>3</sup>) and light (3.3 kg)
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 275 V<sub>rms</sub>
- Power factor correction 0.99
- Constant current characteristic
- Operating temperature range up to 65°C
- Intelligent micro-processor controlled

## Specification

### General

Product name	ESR 24 V - 50 A - D
Efficiency, at 220Vrms	88 %
Safety	EN 60950 IEC 60950 UL 60950 CAN/CSA-C22.2 No. 60950
EMI, radiated compliant with	FCC Part 15 class A EN 55022 class A
Cooling	Fan cooled
Power density	7.9 W / in <sup>3</sup> , 482 W / l

### Input

Voltage range	90 ... 275 V <sub>rms</sub> (300 V <sub>rms</sub> , no damage)
Volt. range, red. power	90 ... 176 Vrms
Power factor	> 0.99
THD	5 %
EMI, conducted compliant with	FCC Part 15 class A EN 55022 class A

### Output

Voltage, nominal	27 V <sub>dc</sub>
Voltage adjust range	20 ... 29 V <sub>dc</sub>
Output current	50A, fixed
Load sharing	< ± 5%
Power limit	1400W

### Mechanics

Width, overall	3.3" / 83.6 mm
Depth, overall	11.7" / 298.7 mm
Height, overall	5.2" / 132.0 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

