



The MCS 1800-48V Rectifier



Description:

The MCS 1800-48V 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 91%
- Compact (9.3 W / in³) and light (3.3 kg)
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 275 V_{rms}
- Power factor correction 0.99
- Constant current characteristic
- Operating temperature range up to 65°C
- Intelligent micro-processor controlled

Specification

General

Product Name	ESR 48 V - 30 A - D
Efficiency, at 220Vrms	91 %
Safety	EN 60950 IEC 60950 UL 60950 CAN/CSA-C22.2 No. 60950
EML, radiated compliant with	FCC Part 15, class A EN 55022, class A
Cooling	Fan cooled
Power density	9.3 W / in ³ , 567 W / l

Input

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

Output

Voltage, nominal	54.3 V _{dc}
Voltage adjust range	40 ... 59.5 V _{dc}
Output current	30A, fixed
Load sharing	< ± 5 %
Power limit	1650 W

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

