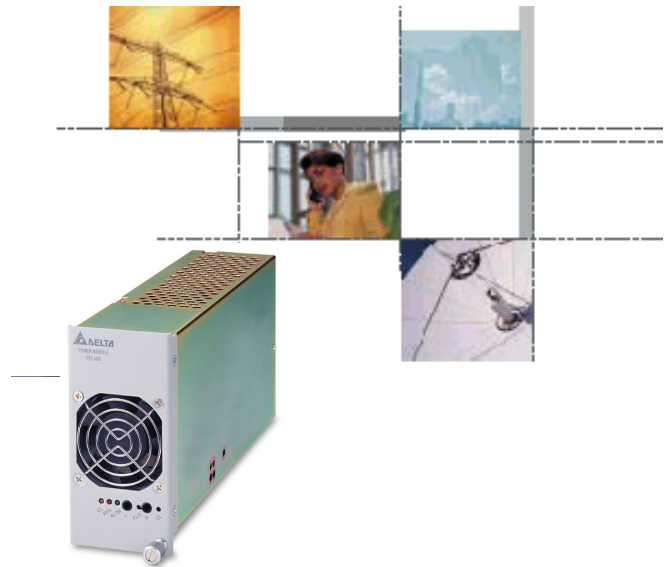


## The MCS 600-48V Rectifier



### Description:

The MCS 600 rectifier 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 optimized modular system design. This performance as well as the extended temperature range, wide input voltage range, high power density and advanced technology are the key features of this rectifier and provides a cost effective and reliable solution.

### Features

- Efficiency 90 %
- Compact (4.8 W / in<sup>3</sup>) and light weight (2.0 kg)
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 275 V<sub>rms</sub>
- Power factor correction
- Constant current
- High operating temperature range up to 65°C
- Intelligent micro-processor controlled

### Specification

#### General

Product name	ESR 48 V - 10 A - B
Efficiency, at 220Vrms	90 %
Safety	EN 60950 IEC 60950 UL 60950 CAN/CSA-C22.2 No. 60950
EMI, radiated compliant with	FCC Part 15 class B EN 55022 class B
Cooling	Fan cooled
Power density	4.8 W / in <sup>3</sup> , 293 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
Current maximum	4 A <sub>rms</sub>
Power factor	> 0.99
THD	5 %
EMI, conducted compliant with	FCC Part 15 class B EN 55022 class B

#### Output

Voltage, nominal	54.3 V <sub>dc</sub>
Voltage adjust range	40 ... 59.5 V <sub>dc</sub>
Output current	10A, fixed
Load sharing	< ± 5%
Power limit	600 W

#### Mechanics

Width, overall	2.5" / 63.6 mm
Depth, overall	14.83" / 376.7 mm
Height, overall	5.2" / 132.0 mm
Weight	4.4lb / 2.0 kg

#### Environment

Operating temperature	- 20 ... + 65 °C
Relative humidity	95 % max, non condensing
Altitude	- 500 ~ 10000 feet

\*Specifications are subject to change

