



The HDS 3000-48V Series Rectifier



Description:

The HDS 3000-48V rectifier is a single phase, hot-pluggable, fan-cooled rectifier. The constant output power rectifier supplies the specified power over the full output voltage range. The benefit is high density design with flexibility to perform in harsh environmental conditions as well as in environmentally controlled conditions. The reduced footprint allows the operator to use valuable floor space for revenue generating equipment.

Features

- High efficiency
- High power density
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 300 V_{rms}
- Power factor correction
- Constant output power
- Operating temperature range up to 65°C
- Intelligent micro-processor controlled

Specification

General

Product name	ESR 48V-3000W-D
Efficiency, at 220V _{rms}	91 %
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	14.6 W /in ³ , 891 W / l
MTBF	250k hours

Input

Voltage range	90 ... 275 V _{rms} (300 V _{rms} , no damage)
Current maximum	19.4 A _{rms}
Power factor	> 0.99
THD	5 %
EMI, conducted compliant with	FCC Part 15 class B EN 55022 class B

Output

Voltage, nominal	54 V _{dc}
Voltage adjust range	40 ... 59.5 V _{dc}
Load sharing	< ± 5%
Power limit	3000 W, fixed

Mechanics

Width, overall	5.4" / 138 mm
Depth, overall	15.2" / 385 mm
Height, overall	3.3" / 84 mm
Weight	11 lb / 5 kg

Environment

Operating temperature	- 20 ... + 65 °C
Reduced power	+ 50 ... + 65 °C
Relative humidity	95 % max, non condensing
Altitude	

*Specifications are subject to change due to technical progress

