



The HDS 3000-24V Rectifier



Description:

The HDS 3000-24V rectifier is a hot-pluggable, fan-cooled rectifier. The constant output power capability supplies the specified power over the full output voltage range. The benefit is an optimized modular system design (fewer number of modules) to match the 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 key features of this rectifier, providing a cost effective and reliable solution.

Features

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

Specification

General

Product name	ESR 24V-3000W-D
Efficiency, at 220V _{rms}	89.5 %
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

Power density	Fan cooled
MTBF	13.6 W / in ³ , 830 W / I 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	27 V _{dc}
Voltage adjust range	20 ... 29 V _{dc}
Load sharing	< ± 5%
Power limit	2800 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	- 500 ~ 10000 feet

*Specifications are subject to change

