



The HDS 3000-24V Power System

Description:

The HDS 3000 series power system combines a compact modular design with intelligent power features and state-of-the-art technology. The HDS 3000-24V power system is capable of providing up to 67.2 kW of reliable DC power. It contains six rectifier shelves for up to 24 rectifiers and converter shelves (in 24V system for -48V DC output), as well as different distribution units with configurable elements for AC, DC distribution, LVDS and power system controller.



Features

- Up to 67.2k W installed power in a 7 ft frame
- Expandable DC/DC converter shelf for 2nd Vdc output
- Constant power design
- Intelligent system controller
- NEB Level III certified

Specification

General

Efficiency, at 220Vrms	89.5 %
Safety	UL/cUL
EMI, radiated compliant with	FCC Part 15 class B EN 55022 class B

Input

AC connection	220 V _{rms} 1 Φ or 3 Φ
Voltage range	176 ... 275 V _{rms}
Frequency range	45 ... 65 Hz
Current nominal	64 A@ 67.2kW per shelf, 1 Φ 37 A@ 67.2kW per shelf, 3 Φ
Inrush current	< 84 A _{peak} per shelf, 1 Φ < 48.5 A _{peak} per shelf, 3 Φ
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	< \pm 5%
DC/DC Converter	Up to 4 converter modules (Optional)
LVDS	1200 A x 2 on load side (Optional)
Battery Disconnect	External Dead Front Fuse, 800A x 2 (Optional)

Power module

Rectifier	ESR 24 V - 2800W - D
Converter	DD 55 V -1300W - A

Environment

Operating temperature	- 20 ... + 60 °C
Relative humidity	95 % max, non condensing
Altitude	- 500 ~ 10000 feet

Power system controller

Intelligent Controller	
Relay outputs	Up to 24 relay outputs (Optional) Up to 24 relay outputs (Optional)

*Specifications are subject to change

