



The MCS 3000-24V Power System

Description:

The MCS 3000-24V Power system combines a compact modular design with intelligent power features and state-of-the-art technology. The MCS 3000-24V is capable of providing up to 1200 Amps of reliable DC power in a compact package. It contains two rectifier shelves for up to 12 rectifiers ESR 24 V - 100 A - B and different distribution units with configurable elements for AC, DC distribution, LVDS and power system controller.



Features

- Up to 1200 A installed power in a 7 ft frame
- Fan cooled rectifiers ESR 24V - 100 A - B
- Power system controller Intelligent
- Wide input voltage range (90Vac~276Vac)
- Single/Three phase AC configuration
- Hot pluggable, all connectors at the rear
- Green power management

Specification

General

Efficiency, at 220Vrms	88 %
Safety	UL 60950 CAN/CSA-C22.2 No.60950
EMI, radiated compliant with	FCC Part 15 class B EN 55022 class B

Input

AC connection	1 Φ 220 V _{rms} 3 Φ 4 W 220 V _{rms} 3 Φ 5 W 380 V _{rms}
Voltage range	176 ... 275 V _{rms}
Frequency range	45 ... 65 Hz
Current nominal	2 x 96 A _{rms} , 1 Φ 2 x 56 A _{rms} , 3 Φ 220V 2 x 32 A _{rms} , 3 Φ 380V
Current maximum	2 x 114 A _{rms} , 1 Φ 2 x 66 A _{rms} , 3 Φ 220V 2 x 38 A _{rms} , 3 Φ 380V
EMI, conducted compliant with	FCC Part 15 class B, EN 55022 class B

Output

Voltage, nominal	27 V _{dc}
Voltage adjust range	21 ... 29.5 V _{dc}
Load regulation	< \pm 0.5 %
Maximum power	33600 W, max.
Current limit	1200 A
Load sharing	< \pm 5%

Environment

Operating temperature	- 5 ... + 55 °C
Relative humidity	95 % max, non condensing
Altitude	- 500 ~ 10000 feet

*Specifications are subject to change due to technical progress

