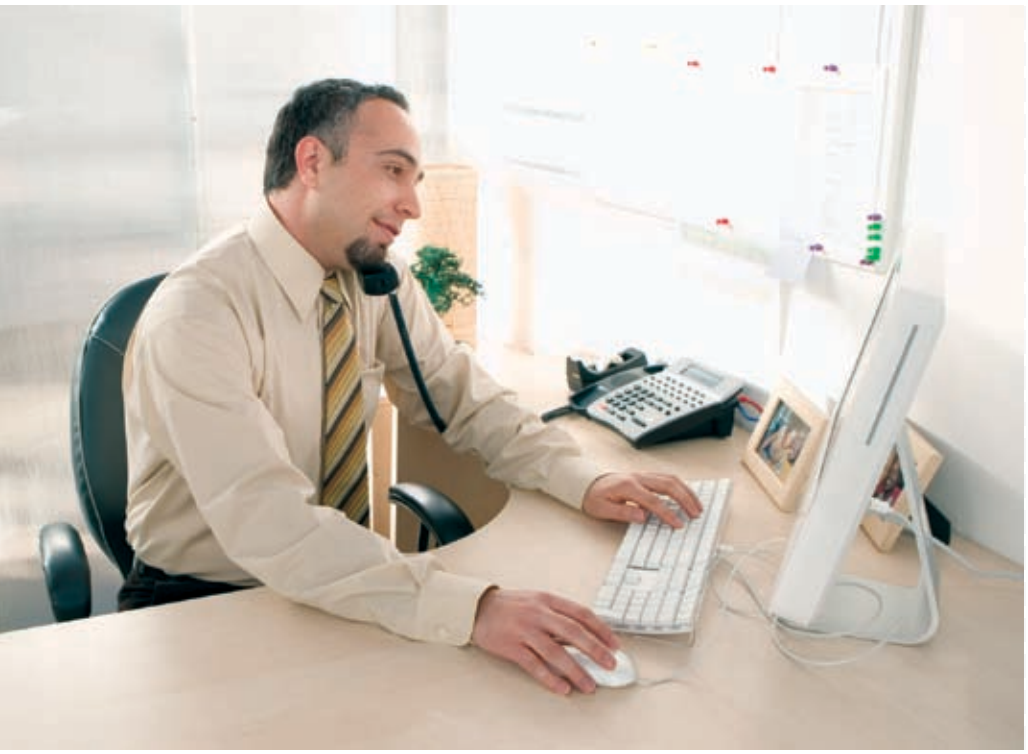
DC Power for
Business-Critical Continuity

NetSure™ 201 NNFB

Mini DC Power System



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NetSure™ 201NNFB System

Key Features

- **High power density –** provides space for revenue generating broadband equipment
- **Compact power system –** 1600W in a 1RU
- **Modular –** simplifies maintenance and reduces on-site installation time
- **High efficiency –** dissipates less heat than original power supplies
- **Complies with industry standards –** UL Listed

R48-800 Rectifier

M500B Controller

Description

The NetSure™ 201NNFB System solution is designed to provide a higher density, more reliable power supply for small to mini applications.

The integrated power shelf holds up to two 400 or 800 watt rectifier modules, and a centralized controller featuring voltage settings, temperature compensation, alarm management and monitoring. The integrated distribution module is designed to offer up to ten GMT fuse positions and a low-voltage disconnect circuit configured for battery disconnect.

Application

The NetSure™ 201NNFB system offers a high-density DC power solution for outside plant enclosure, central office or embedded applications.

System Shelf

The NetSure™ integrated shelf is 1RU high and can be mounted on a 19" or 23" rack. The shelf holds up to two rectifier modules. Each unit will operate from 120VAC or 208/240VAC and is equipped with a single connectorized AC input. The DC output connection for the shelf includes front access terminations. Battery connections are also front access and connectorized. The shelf with rectifiers is UL Listed and meets FCC Class B EMI/RFI requirements.

Rectifier Modules

NetSure™ mini rectifiers are rated for up to 400 watt or 800 watt constant output power when operated at 120VAC or 208/240VAC nominal input. Each hot-swappable rectifier has an integral cooling fan and a tri-color LED status indicator.

Batteries

NetSure™ 201NNFB systems can be configured with a wide range of batteries to suit specific load and reserve time requirements. Battery connections can be made directly to the distribution unit using a connectorized solution.

Controller

The M200B controller is designed for mini applications that require a reliable reporting system. This controller has three LED status indicators, DIP switches for adjustments, alarm reporting and monitoring.

The LEDs report the following information: operation status (green), minor alarm indication (yellow) and major alarm indicator (red). Three dedicated output alarms and four input alarms are available for alarm monitoring. The controller provides the following capabilities: communication fault, main fault, DC over/under voltage, rectifier alarms, fuse alarm, temperature sensor fault alarm, and battery temperature fault alarm.

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Specifications

Input	
Voltage Nominal	100-250VAC, 400 watt output 200-240VAC, 800 watt output Input voltage is 85-300VAC for both
Current	3.0 amps@120VAC per PCU, 400 watt output 6.0 amps@208/240VAC per PCU, 800 watt output
Frequency	45-65 Hz
Protection	Shelf input is wired for single AC input. If the AC input voltage decreases or increases beyond a non-adjustable predetermined value, the PCU power conversion circuitry inhibits, disabling PCU output. The PCU will recover automatically when the AC input voltage is re-established within specification limits.
Power Factor	Greater or equal to 0.95, 400 watt PCU Greater or equal to 0.99, 800 watt PCU
Operating Efficiency	Typical operating efficiency 86%, 400 watt PCU Typical operating efficiency 91%, 800 watt PCU
Output	
Voltage Nominal	-48VDC, positive ground, adjustable from -42 to -58VDC
Current	9 amps max per PCU (400 watt) up to a total of 18 amps per shelf 18 amps max per PCU (800 watt) up to a total of 36 amps per shelf
Power	400 watts maximum per PCU up to a total of 800W per shelf 800 watts maximum per PCU up to a total of 1600W per shelf
Voice Band Noise	Less than 32dBrnC
Psophometric Noise	Does not exceed 1mV at 5 to 100% of rated load
Environmental	
Operating Temperature	-40°C to +65°C (-40°F to +149°F), 400 watt PCU -40°C to +50°C (-40°F to +122°F), 800 watt PCU; derated up to +65°C
Storage Temperature	-40°C to +75°C (-40°F to +167°F)
Humidity	0% to 90% relative humidity, non-condensing
Ventilation	Front to rear
Rating	NEBS Level 3 Certified
Physical Characteristics	
Mounting	Plug-in installation
Dimensions (H x W x D)	1.75" (4.45 cm) x 19" (48.26 cm) x 13.58" (34.50 cm)
Weight	9 lbs (4.1 kg)
Safety Compliance	IEC 60950, EN60950 or UL1850, CE Marked

Additional Information

For additional specification, engineering and installation information, request specification number 582136000 for the NetSure™ 201NNFB.

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