

Hot Swap Rectifier Systems

Medium Power - 550 Watts/Rectifier

The Centurion Rectifier System comprises a low profile 3.5" (2 RU) shelf which accommodates up to three 550 watt, -48 or +24 volt hot-swap rectifiers, plus a voltage control and alarm module. The system is scalable/adaptable for N, N+1 or N+2 configurations. And is ideal for powering network transmitters.

Local and remote monitoring is provided by alarm contacts which report system off, as well as major and minor rectifier conditions via alarm contacts and front panel warning LEDs. Engineered for compatibility with NEWMAR's PFM-400, Power Function Manager to create an integrated power system with metering, alarms, low voltage disconnect and distribution circuit breakers (see catalog page 5 for details.)

Rectifier Specifications

Input Voltage/Frequency/Power Factor:

85-264 VAC* / 47-63 Hz. / .96-.98

Input Amperage: 6 amps @ 115V and full load, 3 amps @ 230V and full load

Output Voltage/Amperage:

CR48-10: -54.4 VDC, 10 amps continuous

CR24-20: +27.2 VDC, 20 amps continuous

Regulation: +/- 2 %

Ripple: CR24-20: 150 mV

CR48-10: 250 mV

Protection: Over-voltage, current limiting, over-temp, forced air cooling, input and output fuses

Indicators: Front panel LED indications: "DC OK/DC FAIL"

Operating Temperature: -10°C to +60°C

Approvals: UL 1950, CE



Features

- 550 watt rectifier units, 48 or 24 volt, slide and lock into the Centurion Shelf
- Shelf accommodates up to three rectifiers—1650 watts total
- Front panel status indicators, output voltage test points and voltage adjustment
- Alarm relay contacts for output OK, minor and major alarms
- Shelf adapts for 19" or 23" rack; center or flush mount

Shelf Specifications

Capacity: Up to Three Centurion

Rectifiers, -48 or +24 volt

Front panel voltage test points and system single point voltage adjustment

Alarms/Indicators:

- Output OK (Form A)
- Minor Alarm (Form C)
- Major Alarm (Form C)
- Battery Over-Temperature (with optional sensor)
- 10 segment LED output current bar graph

Size/Wt.: 3.5" H x 17.15" W x 21.5" D /10 Lbs.

Mounting: With 19" or 23" rack; center or flush mount/adapters

Options

- PFM-400, Power Function Manager creates a fully integrated power system with Metering, alarms, low voltage disconnect, and distribution circuit breakers. (See catalog page 5 for details.)

Go to www.newmartelecom.com/550w for detailed specifications.



High Power - 1600 Watts/Rectifier

This High Density Power System provides a high degree of flexibility and scalability in its Rectifier, Distribution and Control/Monitor components.

Rectifier

- High power density in 2 RU package
- 48 volt: 1600 watts (50 amps) or 24 volt: 1400 watt (60 amps)
- Hot swap architecture; add or replace modules quickly
- Numerous front panel LED indicator/alarms plus contacts for external alarm

The Rectifier Power Shelf has multiple bays that accept both pluggable rectifiers and breaker distribution modules in a low profile 2 RU 19"

or 23" architecture. Scale up redundant systems by using multiple rectifiers, route power to system loads with distribution modules and parallel shelves to increase output power.

The Controller is programmable to monitor essential system functions and interface with alarm settings, and log data and monitor/control remotely via SNMP interface.

19" shelf: Four bays

- All bays accept rectifiers, one bay alternatively accepts circuit distribution module
- Maximum power fully populated with rectifiers: 48 volt: 200 amps 24 volt: 200 amps

23" shelf: Five bays

- All bays accept rectifiers, two bays alternatively accept circuit distribution modules
- Maximum power fully populated with rectifiers: 48 volt: 250 amps 24 volt: 250 amps

Controller/Monitor

- Monitors all major system conditions: Rectifier voltage, current and temperature; battery voltage, capacity and temperature; circuit breaker status
- Local monitoring via front panel LCD or laptop Serial Port
- Remote monitoring SNMP and/or TCP/IP

Power Distribution

Shelf Mount

- Slides into specially configured shelf bay in place of rectifier
- 5 load and/or battery breaker capacity per module
- Internal low voltage battery disconnect

Rack Mount Distribution Panel

- 20 position plug-in breaker panel, model DST-20A (UL), see page 11

Go to www.newmartelecom.com/1600w for detailed specifications.