Rackmount Inverter - 48-1U-1000RM

This inverter provides seamless back-up power for AC powered communications equipment from the site's 48 VDC battery system. A fast-acting transfer switch ensures voice and data transmissions remain uninterrupted in the event of a power grid failure or if the site utility power is disconnected for maintenance and upgrade purposes. Built in a low profile case for 19" rack installations.

Features

- Pure sine wave AC output powers telecom equipment without performance degradation
- Continuous duty rated – full output wattage maintained even during extended power outages
- 1000 Watts – easily cascaded for N+1 redundancy, providing maximum reliability required by data centers
- Low EMI and RFI interference characteristics
- High efficiency: 88% (Full linear load at 120 VAC Output)
- Two NEMA 5-20R AC receptacles provided
- Utility bypass, with fast load transfer switch, <8mS
- Numerous circuit and load protections: over- temp, overload, reverse polarity, high/low battery voltage, AC input breaker
- Load & temperature controlled cooling fan
- Form C alarm contacts for monitoring Abnormal conditions
- Fan aging, failure, disconnect and blockage alarm
- All diagnostic Operation Controlled by a microprocessor
- User-friendly Status and Diagnostic LCD/LED displays
- Remote Power Management optional via remote control relay RS-232 port
- Standard 19" 1U Rackmount
- UL and cUL listed

See page 42 for 2000W units.

Model	DC Input		AC Output	Weight (Lbs.)
	Voltage	Amps	Watts	
48-1U-1000RM	36 - 60	25	1000	12.7

NEWMAR

Powering the Network

Rackmount Inverter - 48-1U-1000RM

AC Characteristics

Voltage: 97-123 VAC (select using front panel selection buttons or RS-232 port and additional software); Factory set at 110 VAC

Frequency: 60 Hz. Standard, 47-63 Hz. User selectable

Wave Form: Pure Sine

Total Harmonic Distortion: THD < 2%

Transfer Time:

From AC bypass mode: ≤ 20mS

From Inverter mode: ≤ 8mS

Input:

No Load Current: .75A

Over Voltage Protection: 60 VDC

Under Voltage Protection: 36-44 VDC

Voltage Range:36-60 VDC

Efficiency: 88 %(Full Load)

Output:

Voltage: 97-123 VAC

Transfer Switch: 15AMP/120VAC

Max Output power (3min): 1100W

Surge power: 2000W

Displays

LED: Inverter (On), AC Grid, Bypass and Alarm

LCD: 2 line LCD w/ Keypad for navigation,
Selectable functions: Input OVP, UVP voltage, UV alarm & Alert settings, Output voltage, Frequency settings, Online, Offline(Haphazard, normal, Exacting) settings

Operating Temperature: 0° to 50° C Full Load, -30°-70° C in Storage

Cooling: Forced air, front-to-back On @ Internal > 55°C or load > 30%

Humidity: 0-90% relative humidity

Visual & Audio Alarms:

- Form C (Dry Contact) terminals
- Overload / Short Circuit Alarm
- Input UV / OV
- Over Temperature
- Fan Failure (Buzzer alarm)

Communication Interface

RS-232 port, Remote control of inverter (on/off)

Mechanical

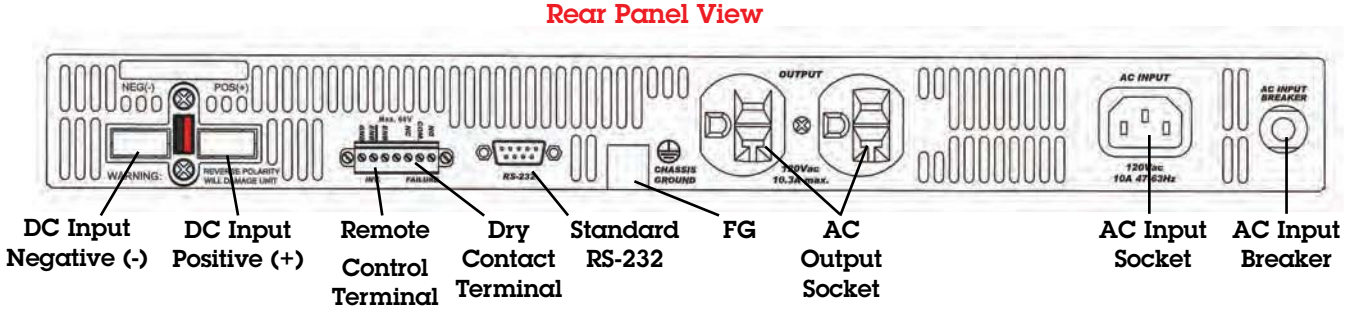
Dimensions: 16.5"W x 1.713"H x 15.5"D

Mounting: 19" or 23" Rack (Requires 19"-23" adaptors)

EMC & Safety Standards

FCC CFR Title 47 Part 15 subpart B:2005 class B,
CISPR 22:2005 CE Marked
En55022:1998+A1:2000+A2:2003 Class B,
En55024:1997+A1:2001+A2:2003 Class B
En61000-3-2: 2006 Class A, EN 61000-3-3:1995+A1:2001
FCC Class B, UL60950-1, CAN/CSA-C22.2 No.60950-1 & TUV EN60950-1

Rear Panel View



Powering the Network