

**DESCRIPTION**

Unipower Telecom's Meridian Series are hot-swappable, modular rectifiers which produce 12.5 or 25 amperes at 54.4VDC (48V version) or 50 amperes at 27.2VDC (24V version). These switching rectifier modules are compact with up to 6.4 watts/cu.inch power density, taking up only 3.5 inches (two mounting positions) of rack space. They are ideally suited for both wireless and wireline applications.

Three rectifier modules in a companion 19-inch shelf produce up to 75A at 54.4VDC or 150A at 27.2VDC; four rectifier modules in a 23-inch shelf produce up to 100A at 54.4VDC or 200A at 27.2VDC. The rectifier modules have automatic load sharing and ORing diodes, so they can be added or replaced while the system is operating. The output voltage of each rectifier module can be adjusted over 45-58 or 22.5-29VDC from a pot on the front panel, or all modules can be adjusted simultaneously from a remote analog input.

**SAFETY CERTIFICATIONS**

UL1950  
CSA22.2, No. 950  
EN60-950

**TWO-YEAR WARRANTY**

**RMH, RMP SERIES**

**RECTIFIER MODULES**

MODEL	NOMINAL OUTPUT	FACTORY SET OUTPUT	MAX. OUTPUT CURRENT
RMH48/12.5	48VDC	54.4V	12.5A
RMP48/25	48VDC	54.4V	25A
RMP24/50	24VDC	27.2V	50A

**SHELVES**

MODEL	WIDTH	HEIGHT	NO. MODULES
RRS2U-19	19" (483MM)	3.5" (89MM)	3
RRS2U-23	23" (584MM)	3.5" (89MM)	4

**FEATURES**

- ◆ Two Mounting Positions High: 3.5"
- ◆ 85-264 or 170-264VAC Input Range
- ◆ Low Energy Cost: 0.99 Power Factor
- ◆ Active Load Sharing
- ◆ Output Voltage Range: 45-58 or 22.5-29VDC
- ◆ Group or Individual Remote Output Adjustment\*
- ◆ Battery Temp. Compensated Charge Regulation\*
- ◆ 85% Efficiency
- ◆ High Power Density: Up to 6.4W/Cu. Inch
- ◆ Hot Swappable
- ◆ Integral ORing Diodes
- ◆ Class B EMI Filter

\* With external controller

# SPECIFICATIONS, MERIDIAN (RMH, RMP) SERIES

Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

### INPUT

Voltage Range, RMH .....	85-264VAC
RMP .....	170-264VAC
Power Factor .....	0.99
Total Harmonic Distortion, Max. ....	5%
Frequency .....	47-63Hz
Inrush Current Limiting .....	50A Peak
Input Current, Full Load, RMH .....	6.7A@120VAC
RMP .....	7.0A@230VAC
EMI Filter, Conducted .....	FCC20780 pt. 15J Curve B
.....	EN55022 Curve B
Fast Transients .....	EN61000-4-4
Surges .....	EN61000-4-5
Analog Voltage Adjust .....	0 to +5V

### OUTPUT

Current & Voltage <sup>1</sup> .....	12.5 or 25A@54.4VDC
.....	50A@27.2VDC
Voltage Adjustment Range, 48V Nominal .....	45-58VDC
24V Nominal .....	22.5-29VDC
Total Regulation, Max. ....	1.0%
Holdup Time .....	20msec.
Overvoltage Protection, 48V Out .....	59V
24V Out .....	29V
Filtering: Wideband Noise, 20MHz BW	
48V Out, P-P .....	500mV
24V Out, P-P .....	250mV
Voice Band Noise .....	<32dBmC
Current Limit .....	105% Rated Current
Efficiency .....	85%

**SAFETY STANDARDS** ..... UL1950, CSA22.2-950, EN60-950  
**STATUS INDICATORS**

AC Good .....	Logic LO Output
DC Good .....	Logic LO Output

### ENVIRONMENTAL

Operating Temp. Range .....	0°C to +70°C
Output Current Derating .....	2.5%/°C, 50°C to 70°C
Storage Temp. Range .....	-40°C to + 85°C
Humidity .....	0% to 95%, Non-Condensing
ESD .....	Bellcore GR-1089-Core and EN61000-4-2
Cooling .....	Internal Fans

### PHYSICAL SPECIFICATIONS

Case Material .....	Aluminum
Finish .....	Powder Coat Gray
Dimensions, Inches (mm)	
Rectifier Module .....	3.3 H x 4.9 W x 13.1 D (84 x 124 x 333)
19" Shelf .....	3.50 H x 19.00 W x 19.88 D (89 x 483 x 505)
23" Shelf .....	3.50 H x 23.00 W x 19.88 D (89 x 584 x 505)
Weight, Rectifier Module .....	9.55 lbs. ( 4.33 kg.)

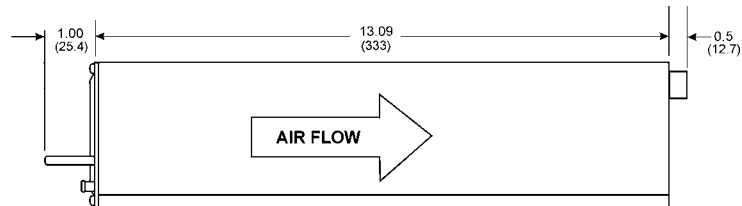
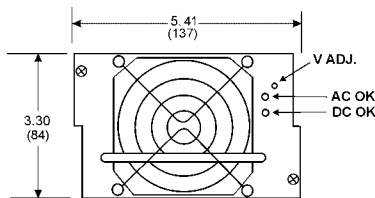
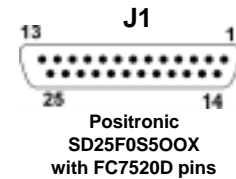
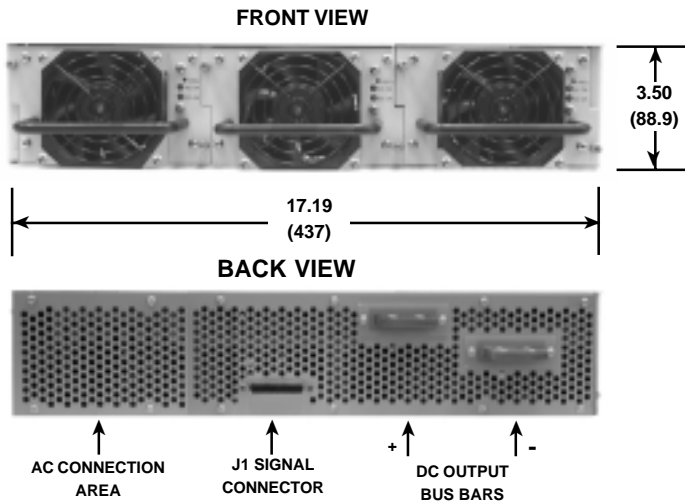
**NOTE:** 1. Voltage set at factory.

Brackets are available for mounting the 19-inch shelf in a 23-inch rack. Order No. 775-1437-0000 (set of two) for \$18.00.

### REAR SHELF

J1 SIGNAL CONNECTOR			
PIN	FUNCTION	PIN	FUNCTION
1	Remote Enable	14	AC Good-1
2	N.C.	15	DC Good-1
3	N.C.	16	AC Good-2
4	N.C.	17	DC Good-2
5	N.C.	18	AC Good-3
6	N.C.	19	DC Good-3
7	N.C.	20	AC Good-4*
8	N.C.	21	DC Good-4*
9	N.C.	22	Signal Common
10	Current Share	23	-Sense
11	+ Sense	24	Remote Adjust-1
12	Remote Adjust-2	25	Remote Adjust-3
13	Remote Adjust-4*		

\* These pins are No Connection on 19-inch shelf



ALL DIMENSIONS IN INCHES (mm).  
 All specifications subject to change without notice.