

Unit 111, Dunston Innovation Centre Chesterfield, S41 8NG, U.K.

T e I: + 44 (0) 1246 452909 F a x: + 44 (0) 1246 452942 W e b: w w w . e t p s . c o . u k Email: s a l e s @ e t p s . c o . u k Sales: 0800 612 95 75

REC-500-230-67

AC/DC Rectifier

Description

This compact rectifier has been designed to work with -60Vdc battery supported Telecom Systems. Measuring only 19" x 1U x 244mm (WxDxH) the unit incorporates 2 x 250W plug-in rectifiers and an internal output distribution system that provides five separate output terminals. For extra protection each output is fitted with an electronic fuse that can be adjusted via a front panel mounted rotary selector switch with adjustment between 0-8A. With two separate AC input connectors allowing the unit to be powered by two separate phases the output can be assured in the event of a single phase being lost. The system can be configured for a -48Vdc battery system by a simple jumper change in the power modules, which will then provide 54Vdc output.



- Internal DC distribution 5 O/P's
- Selectable current limit
- Redundant DC output
- Redundant AC Input
- Hot Swap Modules
- 19" x 1U x 244mm

Selection Table

Part Number	Power (Watts)	Output Voltage	Current (Amps)	Dimensions (Width x Height x Depth)	Weight
REC-500-230-67	500W	-67VDC	7.4A	19" x 1U x 244mm	4.3kgs
REC-250-230-67	250W	-67VDC	3.7A	19" x 1U x 244mm	2.8kgs





sales@etps.co.uk 0800 612 95 75

Technical Data

\sim		ıral
	\mathbf{n}	\rai

Electrical Safety
Protection Class
Isolation Group

EN 60950 1 Pollution Degree 2

Input

Mains Voltage
Voltage Range
Frequency Range
Connection Terminals

Inflammability

230VAC (1 or 2 Phases) 197 - 265VAC

Complies with UL 94VO

45 - 66Hz (sinewave)

2 x IEC Inlet, EN-60320

Mechanical Data

Casing
Sub Rack Dimensions
250W Module Dimensions
Module Carrier Weight
250W Module Dimensions
Protection
Cable Access
Cooling

19" rack mount (Sheet steel, zinc plated)

19" x 1U x 244mm (W x H x D) 130 x 40 x 160mm (W x H x D)

Approx. 4.3kg (full rack)

Approx. 1.5kg

IP 20 Rear Side

Forced ventilation, temperature controlled fan in each 250W module

Output

DC Voltage **Output Current Output Power** Overload Efficiency Mains hum at full load Ripple at full load Mains Regulation Load Regulation Recovery Time **OVP Threshold** TK Output Voltage **Current Limitation** Parallelling Function Number of Outputs from module rack **Output Protection**

-67DC, positive pole is connected with chassis/protective earth

3.7A per 250W module

Up to 500W, module power size = 250W, without derating up to 50°C

1.2 x I_{NON}

> 90%

=100mVpp at 197VAC input

=200mVpp (20MHz)

? 0 . 1 (197/264VAC)

=1% (10/90% load jump)

=1ms (10/90% load jump)

75VDC

=0.05%/C

Constant current, short circuit proof

2 x 250W module in one module rack, separate redundant mains input lines, (A +B system), AC 2 has priority

5 outputs from internal current distribution

Adjustable electronric fuse , 0 - 8A via rotary selector, located at the front panel

Environmental Conditions

During Operation
During Transport/Stocking
Relative Air Humidity
Maximum Operation Altitude

-5°C to +50°C (non condensing)

-40°C to +85°C (in original packaging) 0% to 95% (relative humidity)

2000 metres

EMC

Emission
Immunity
Burst (EFT)
Surge
ESD

EN 50081-1/2, EN 55022B

EN 55024, EN 61000-6-2 (Industrial Areas)

4kV, 50 , direct coupled

2kV

15kV air, 8kV conducted

Other

Reliability
Alarm Contact
Visual
Connection Terminals
Warranty

Unit life = 8 years, MTBF = 50 y

Potential free, general alarm

Each 250W module: LED (green) power supply ok, each DC output in the module rack: LED (red) status of electr. fuses IEC inlet connector, EN60320 pluggable, screw clamps, Phoenix combicon, 3 pole connector, type phoenix MC 1.5/17-G3 5/1.5mm²

2 Years