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REC-500-230-48-K1

AC/DC Rectifier

Description

This compact rectifier has been designed to work with -48Vdc battery supported Telecom Systems. Measuring only 19" x 1U x 244mm (WxDxH) the unit incorporates 2 x 250W plug-in rectifiers. Each rectifier has a "power supply ok" green LED and will operate up to 50°C without derating. The high efficiency rectifiers >90% mean that the full rack only weighs 4.3kgs. With a greater than eight year life and a MTBF in excess of 50 Years this range will provide a reliable and trouble free power source for your application.



- Redundant DC output
- 24 months warranty
- Hot swap modules
- 19" x 1U x 244mm
- Battery "ok" signal
- Output 52-58Vdc

Selection Table

Part Number	Power	Output Voltage	Current	Dimensions (Width x Height x Depth)	Weight
REC-500-230-48-K1	500W	-52-58VDC	8.6A	19" x 1U x 244mm	4.3kgs
REC-250-230-48-K1	250W	-52-58VDC	4.3A	19" x 1U x 244mm	2.8kgs





REC-500-230-48-K1

AC/DC Rectifier

Technical Data

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Electrical Safety
Protection Class
Isolation Group

Isolation Group
Inflammability

Input

Mains Voltage Voltage Range Frequency Range Mains Connection

Mechanical Data

Protection
Cable Access
Cooling

Cooli

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

Environmental Conditions
During Operation

Connection Terminals

During Transport/Storage
Relative Air Humidity
Maximum Operation Altitude

Immunity Burst (EFT)

EMC

ESD Other Reliability

Surge

Emission

Alarm Contact/Terminal
Visual
Warranty

EN 60950

Pollution Degree 2

Compliant with UL 94V0

230VAC

197 - 265VAC 45 - 66Hz (sinewave)

IEC Inlet EN-60320

19" rack mount (Sheet steel, zinc plated)

IP 20

Rear Side

Forced ventilation, temperature controlled fan in each 250W module

-54DC, positive pin is connected to chassis/protective earth

4.3A per 250W module

Up to 500W, module power size = 250W, without derating up to 50 $^{\circ}$ C

 $1.2 \times I_{NON}$

> 90%

=100mVpp at 197VAC input

=200mVpp (20MHz)

?0.1 (197/264VAC)

=1% (10/90% load change)

=1ms (10/90% load change)

75VDC

=0.05%/C

Constant current, short circuit proof 2 x 250W module in one module rack

Pluggable screw clamp. Type Phoenix COMBI connection

-5°C to +50°C (non condensing)

-40°C to +85°C (in original packaging)

0% to 95% (relative humidity)

2000 metres

EN 50081-1/2, EN 55022B

EN 55024, EN 61000-6-2 (Industrial Areas) 4kV, 50 , direct coupled

2kV

15kV air, 8kV conducted

Unit life = 8 years, MTBF = 50 y

Potential free, general alarm, battery ok/Phoenix MC1.5/8-G3 5/1.5mm²

Each 250W module: LED (green) power supply ok

2 Years