

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 I e s @ e t p s. c o. u k Sales: 0 8 0 0 6 1 2 9 5 7 5

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 | |





sales@etps.co.uk 0800 612 95 75

REC-500-230-48-K1

AC/DC Rectifier

Technical Data

Warranty

| General | | | | |
|----------------------------|---|--|--|--|
| Electrical Safety | EN 400E0 | | | |
| Protection Class | EN 60950 1 | | | |
| Isolation Group | | | | |
| Inflammability | Pollution Degree 2 | | | |
| | Compliant with UL 94VO | | | |
| Input | | | | |
| Mains Voltage | 230VAC | | | |
| Voltage Range | 197 - 265VAC | | | |
| Frequency Range | 45 - 66Hz (sinewave) | | | |
| Mains Connection | IEC Inlet EN-60320 | | | |
| Mechanical Data | | | | |
| Casing | 19" rack mount (Sheet steel, zinc plated) | | | |
| Protection | IP 20 | | | |
| Cable Access | Rear Side | | | |
| Cooling | Forced ventilation, temperature controlled fan in each 250W module | | | |
| Output | | | | |
| DC Voltage | -54DC, positive pin is connected to chassis/protective earth | | | |
| Output Current | 4.3A per 250W module | | | |
| Output Power | Up to 500W, module power size = $250W$, without derating up to $50^{\circ}C$ | | | |
| Overload | $1.2 \mathrm{x} \mathrm{I}_{NDM}$ | | | |
| Efficiency | > 90% | | | |
| Mains hum at full load | =100mVpp at 197VAC input | | | |
| Ripple at full load | =200mVpp (20MHz) | | | |
| Mains Regulation | ?0.1 (197/264VAC) | | | |
| Load Regulation | =1% (10/90% load change) | | | |
| Recovery Time | =1ms (10/90% load change) | | | |
| OVP Threshold | 75VDC | | | |
| TK Output Voltage | =0.05%/C | | | |
| Current Limitation | Constant current, short circuit proof | | | |
| Parallelling Function | 2 x 250W module in one module rack | | | |
| Connection Terminals | Pluggable screw clamp. Type Phoenix COMBI connection | | | |
| | | | | |
| Environmental Conditions | | | | |
| During Operation | -5°C to +50°C (non condensing) | | | |
| During Transport/Storage | -40°C to +85°C (in original packaging) | | | |
| Relative Air Humidity | 0% to 95% (relative humidity) | | | |
| Maximum Operation Altitude | 2000 metres | | | |
| EMC | | | | |
| Emission | EN 50081-1/2, EN 55022B | | | |
| Immunity | EN 55024, EN 61000-6-2 (Industrial Areas) | | | |
| Burst (EFT) | 4kV, 50 , direct coupled | | | |
| Surge | 2kV | | | |
| ESD | 15kV air, 8kV conducted | | | |
| Other | | | | |
| Reliability | Unit life = 8 years, MTBF = 50 y | | | |
| Alarm Contact/Terminal | Potential free, general alarm, battery ok/Phoenix MC1.5/8-G3 5/1.5mm ² | | | |
| Visual | Each 250W module: LED (green) power supply ok | | | |
| | | | | |

2 Years

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. The photograph illustrates a modified EAC with timer functions. You're chosen unit may differ from that shown.