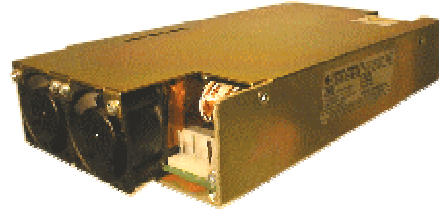


FXP250 Lead acid charger series

250 Watt Switched Mode

Features:

- High reliability
- Thermal protection as standard
- Float charge @ 2.25V/cell
- Constant current / voltage charge
- Conforms to International safety regulations
- Front panel available for 19" rack mount
- Internal ORing diode to prevent battery discharge



Low profile: 212.5 x 116 x 43mm

Description:

The FXP250 float charger series offers 250W of charging power incorporating active power factor. Optional features include choice of connections (Molex, screw terminal or custom), volt free charger ok signal, low battery disconnect, output remote sense and ORing diode as standard. Also available with front panel as required for rack mounting. Fan cooled.

Specification:

Input

Input voltage : 90-264Vac
 Frequency range : 47-63Hz
 Inrush current : < 30A (230Vac)
 Earth leakage : 2.5mA typical @ 264Vac
 Power Factor : 0.98 typical @ 230Vac EN61000-3-2 Class D
 Input current: 3.5A @ 90Vac
 Hold up time : 20ms from 240V @ full load
 Input fuse: F5AHRC

Output

Output voltages / currents : see table (custom available)
 Voltage adjustment : +/- 5% * Wide range versions available
 Initial setting : 0.5%
 Load regulation : <1%
 Line regulation : <0.5%
 Ripple and noise: 0.2%RMS, 1% peak DC - 30MHz
 Transient deviation : 5% for 50% load variation
 Transient time : 2mS
 Over voltage protection : 115 - 125% of output voltage
 Over current protection : Constant current limit >250W
 Output power : 250 Watts fan cooled
 Temperature coefficient : 0.02%/°C
 Shock and vibration : Meets MIL-STD-810F

Options

Battery temperature compensation @ 0.2% Vout / °C
 Boost charge @ 2.4V / cell (reduce to float @80%)
 Low battery disconnect relay
 Output / charger OK signal via relay
 Remote sense
 5mm screw, Molex or custom connection
 Front panel as required for rack mount
 Current share for parallel use

Outputs

FXP250-06 : 6.75V / 37A	FXP250-36 : 40.5V / 6.2A	FXP250-96 : 108V / 2.3A
FXP250-12 : 13.5V / 18.5A	FXP250-48 : 54V / 4.6A	FXP250-120 : 135V / 1.85A
FXP250-24 : 27.6V / 9.2A	FXP250-60 : 67.5V / 3.7A	FXP250-240 : 270V / 0.93A

General

Efficiency: 80% typical
 MTBF: >100,000 hrs to MIL-STD-217E @ 25°C
 Dielectric strength:
 4.25Kvdc input to Output
 2.25Kvdc input to Earth
 500Vdc output to Earth
 Connections: 0.375" Beau screw terminals, 5mm screw or Molex 0.156" as required.
 (custom loom optional)

Environmental

Operating Temperature:
 0°C to +70°C De-rate at 2.5% /°C above 50°C
 (Low temp. versions available)
 Storage Temperature:
 -25°C to +85°C
 (Low temp. versions available)
 Operating humidity:
 0 to 95% RH non-condensing

Safety & EMC

Isolation, input to earth : 2.5kVdc, >2.5mm
 Isolation, input to output : 4.25KVdc, >6.4mm
 Isolation, output to earth : 500Vdc
 (unless commoned)
 Units designed to meet: EN60950, UL60950, CSA 22.2 No. 950 & 234
 Emissions designed to meet: EN55022-B (conducted)
 EN55022-A (radiated)

Immunity designed to meet:

EN61000-4-2 (ESD)
 EN61000-4-3 (RAD)
 EN61000-4-4 (FAST TRANS)
 EN61000-4-5 (SURGE)
 EN61000-4-6 (CONDUCTED)
 EN61000-4-8 (MAGNETIC)
 EN61000-4-11 (VOLTAGE DIPS & FLUCTUATIONS)
 EN61000-3-2 (MAINS HARMONICS)
 EN61000-3-3 (VOLTAGE FLUCTUATIONS)

FXP250 Series

Mechanical Details and Connections

