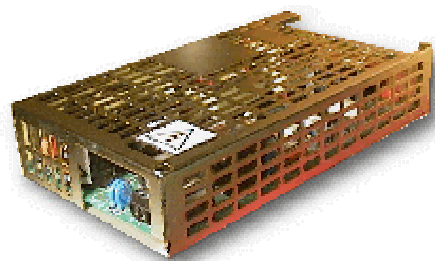


# FXP150 Lead acid charger series

## 150 Watt Switched Mode

### Features:

- High reliability
- Thermal protection as standard
- Float charge @ 2.25v/cell
- Constant current / voltage charge
- Low profile - High density format
- Conforms to International safety regulations
- Internal ORing diode to prevent battery discharge



Low Profile: 212.5 x 116 x 43mm

### Description:

The FXP150 float charger series offers a highly compact charging supply incorporating active power factor correction to meet the requirements of EN61000-3-2 D. 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. See below for full battery options available.

### Specification:

#### Input

Input voltage : 90 – 264Vac  
Input frequency : 47 – 63Hz  
Inrush current : < 30A (230Vac)  
Earth Leakage : 1.5mA typical at peak input volts  
Power Factor : 0.98 typical @ 230Vac  
Input current : 2A @ 90Vac  
Hold up time : 28ms from 240V @ full load  
Input fuse : F5AHRC 5 x 20mm

#### Output

Output voltages / currents: see table  
Voltage adjustment: +/- 5% \* Wide range versions available  
Initial setting: 0.5%  
Load /cross 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 >150W  
Output power : 150 Watts convection cooled  
De-rating: 2.5% /°C above 50°C  
Derating with cover : 2.5% /°C above 40°C  
Temperature coefficient :0.02%/°C  
Shock and vibration: Meets MIL STD810F

#### 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

FXP150-06 : 6.75V / 22.2A	FXP150-36 : 40.5V / 3.7A	FXP150-96 : 108V / 1.4A
FXP150-12 : 13.5V / 11.1A	FXP150-48 : 54V / 2.8A	FXP150-120 : 135V / 1.1A
FXP150-24 : 27.6V / 5.6A	FXP150-60 : 67.5V / 2.2A	FXP150-240 : 270V / 0.6A

#### General

Efficiency: 80% typical  
MTBF: >100,000 hrs to MIL217E @ 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:  
-20c to +60°C De-rate at 2.5% /°C above 50°C  
Storage Temperature:  
-25°C to + 85°C  
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-A (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)



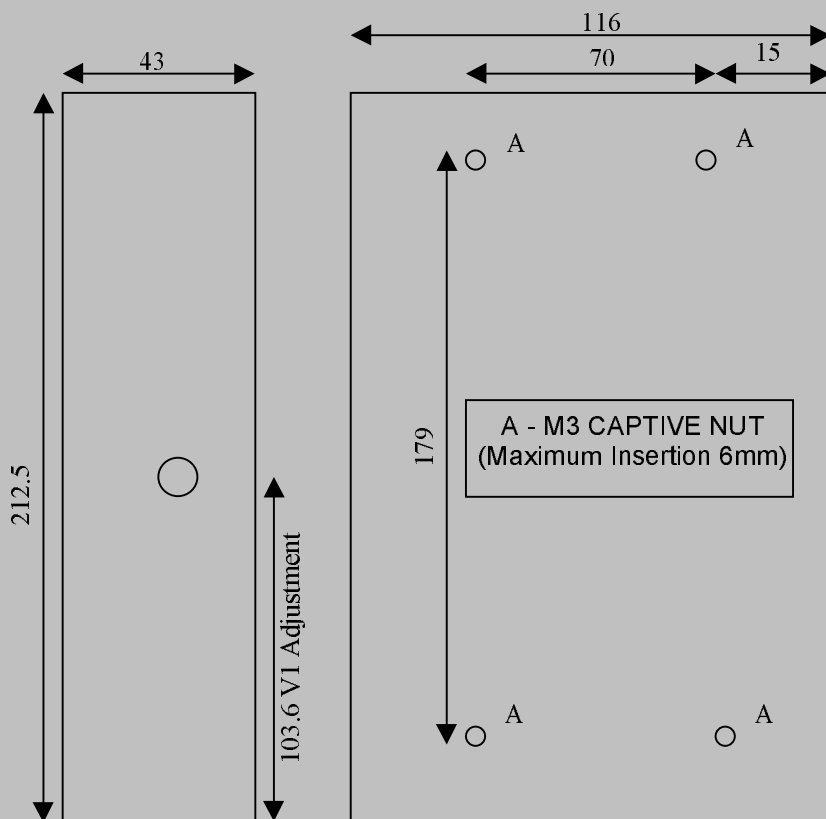
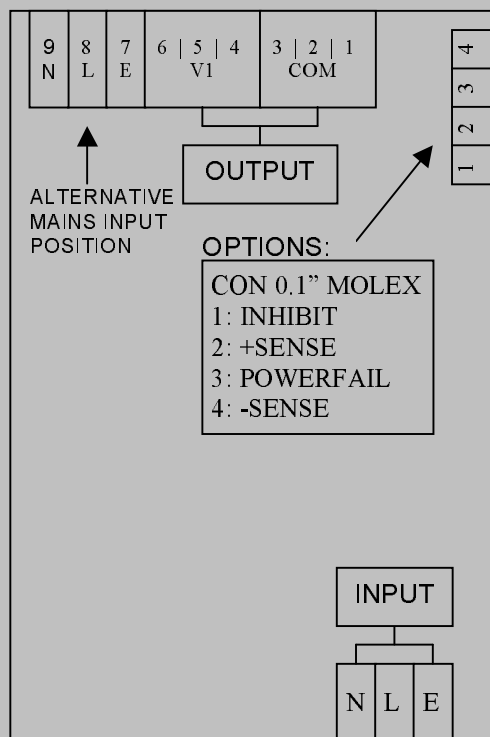
# FXP150 Series

## Mechanical Details and Connections

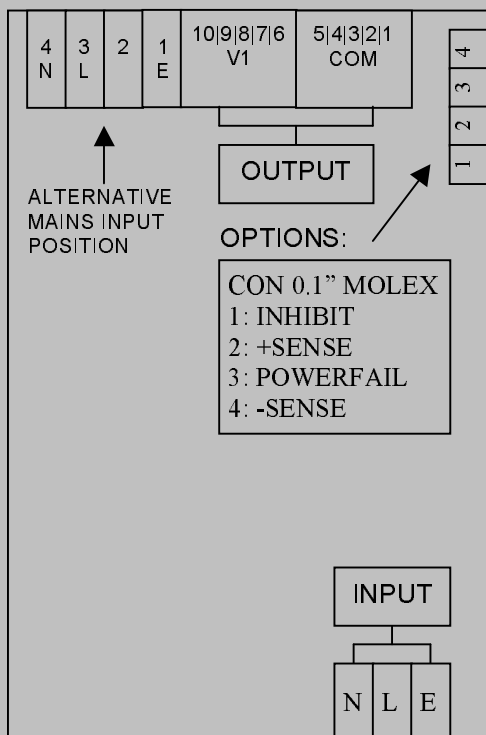


**FerrusPower** Ltd.  
Power Converter :: Design & Manufacture  
At the forefront of power converter technology

### 0.375" SCREW TERMINALS



### 5mm SCREW TERMINALS



### MOLEX 0.156" SQUARE PIN

