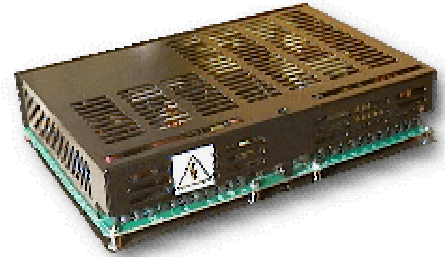


# FX200 Lead acid charger series

## 200 Watt Switched Mode

### Features:

- High reliability
- Float charge @ 2.25V/Cell
- Constant current / voltage charge
- Internal ORing diode to prevent discharge
- Front panel available for 19" rack applications
- Eurocard or chassis mount
- Thermal protection as standard



156.3 x 233.4 x 57.5mm

### Description:

The FX200 float / boost charger series offers an industry standard footprint ideal for use within 19" rack systems or simply as stand-alone. Mounted vertically the product offers a 6U format whilst a 2U format is offered if mounted horizontally. Optional Features include inhibit / enable control, powerfail and charger output OK signal. Internal ORing diode fitted as standard.

### Specification:

#### Outputs

FX200-06 : 6.75V / 30A	FX200-36 : 40.5V / 5A	FX200-96 : 108V / 1.85A
FX200-12 : 13.5 / 15A	FX200-48 : 54V / 3.7A	FX200-120 : 135V / 1.5A
FX200-24 : 27.6V / 7.4A	FX200-60 : 67.5V / 3A	FX200-240 : 270V / 0.75A

#### Input

Input range : 90-132Vac / 180-264Vac (90-264Vac Auto-select)  
 Frequency range : 47-63Hz  
 Earth leakage : 1.5mA typical @ 264Vac  
 Input VA : 350VA max @240V I/P  
 Inrush current : <30A@ peak input volts  
 Power Factor : \*0.67 typical @ 230Vac  
 Input current: 2.2A @ 180Vac  
 Hold up time : 28ms from 240V @ full load  
 Input fuse: F5AHRC 5 x 20mm

#### 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%, 90-132Vac/ 180-264Vac  
 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 V1  
 Over current protection : Constant current limit >200W  
 Output power : 200 Watts convection cooled

#### Options

Battery temperature compensation @ 0.2% Vout/°C  
 Boost charge @ 2.4V/cell (reduce to float @80%)  
 Output / charge OK signal  
 Low battery disconnect relay  
 Mains power fail signal  
 Current share for parallel use  
 Mains input auto-select  
 Inhibit / enable control  
 Front panel to specification  
 Remote sense  
 Connection via H11 DIN 41612 or 7.5mm screw terminal

#### General

Efficiency:  
 75-80% typical @ 240Vac full load

MTBF:  
 >100,000 hrs to MIL-STD-217F @ 25°C

#### 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, EN41003

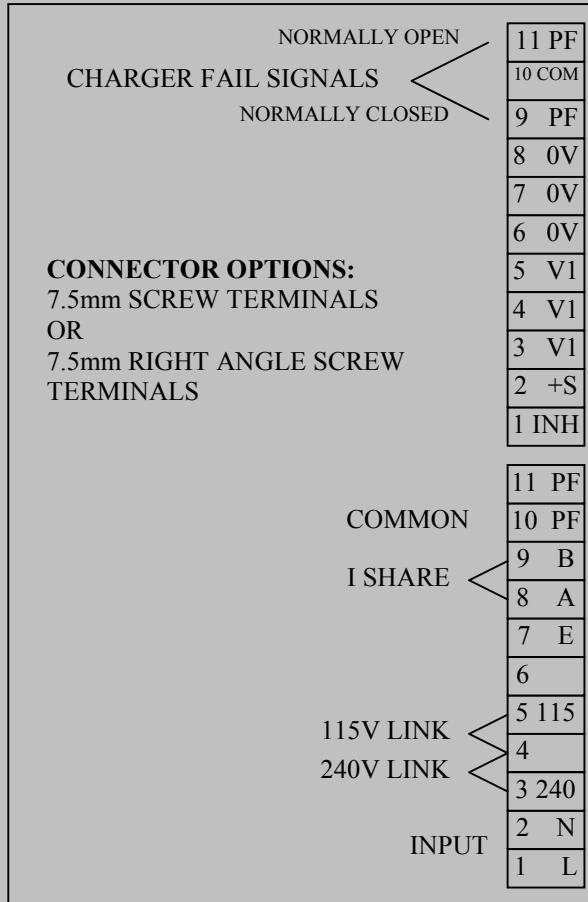
Emissions designed to meet: EN55022-B  
 (conducted) EN55022-A (radiated)

Immunity designed to meet: EN61000-4-2 (ESD)  
 (IEC801-2) EN61000-4-3 (radiated) (IEC801-3)  
 pending EN61000-4-4 (fast transients)  
 (IEC801-4) IEC801-5 (surge)

# FX200 Series

## Mechanical Details and Connections

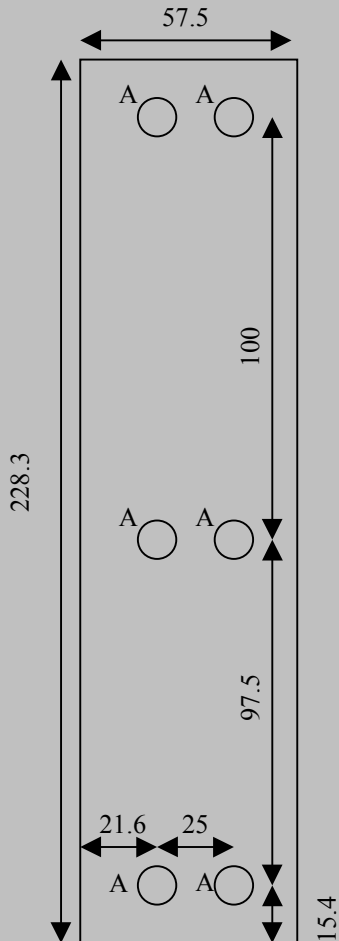
TOP VIEW



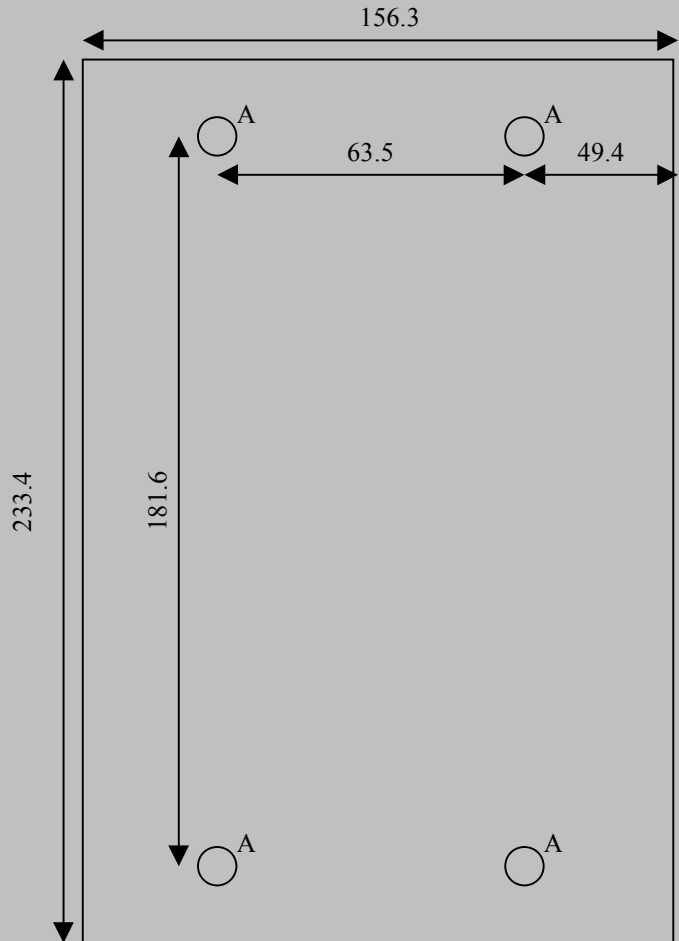
A : M3 CAPTIVE NUT  
Maximum Insertion 6mm

Alternative Output  
Configurations Available

SIDE VIEW



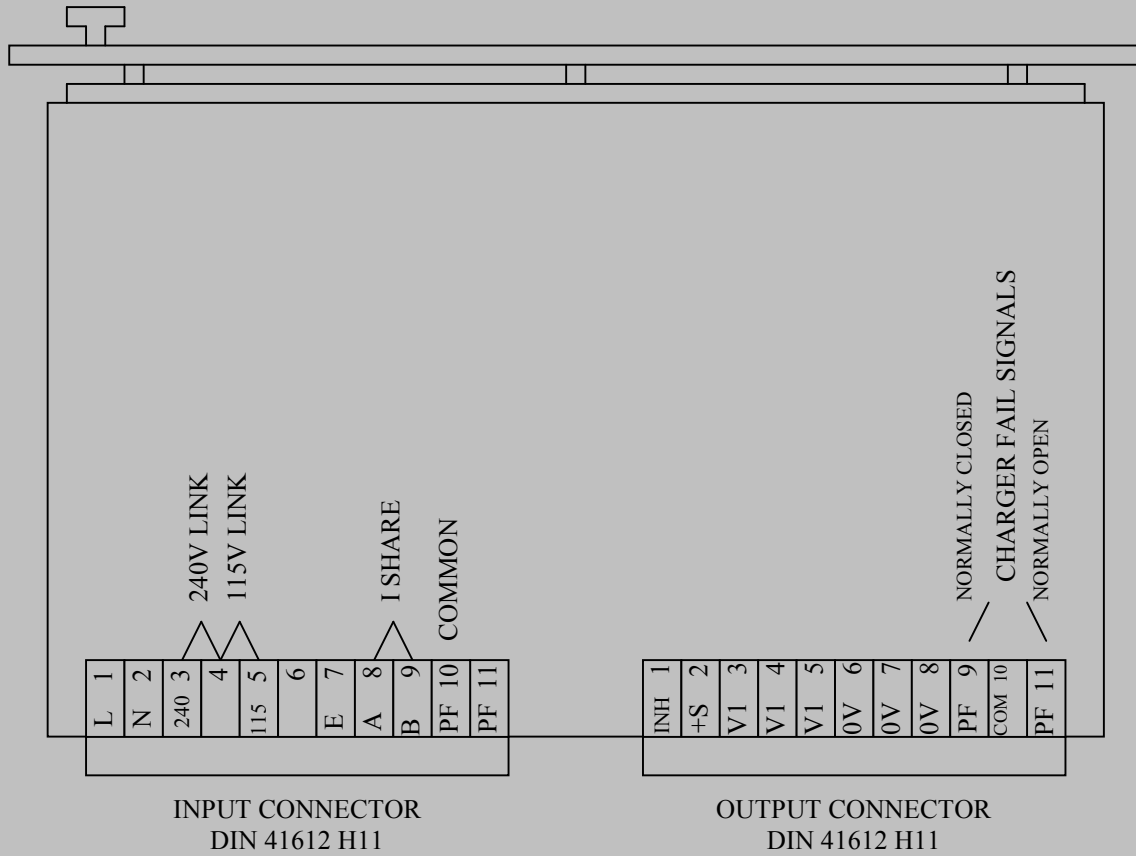
BOTTOM VIEW



# FX200 Series (Euro-option)

## Mechanical Details and Connections

### FX200 STANDARD DEPTH (160mm) EURORACK 66 x 12HP (TE)



NOTE: THE POWER SUPPLY IS DESIGNED TO SLIDE IN THE RACK ON THE "PCB".

