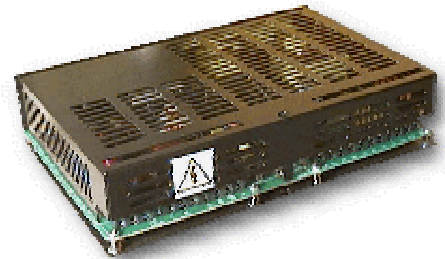


FX200 Lead acid charger series

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
 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 MIL217E @ 25°C

Environmental

Operating Temperature:
 0 - 70°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, EN41003

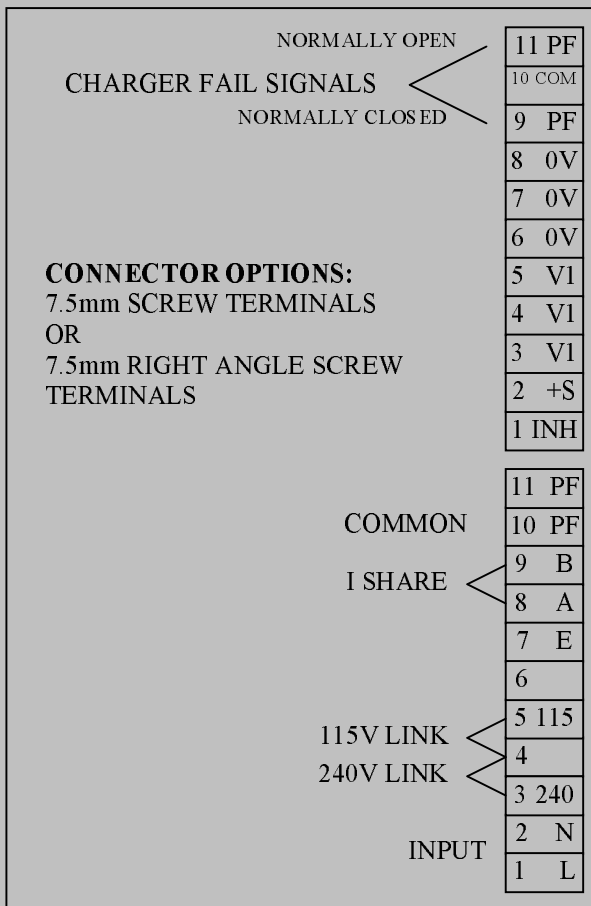
Emissions designed to meet: EN55022-B
 (conducted) EN55022-A (radiated)

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

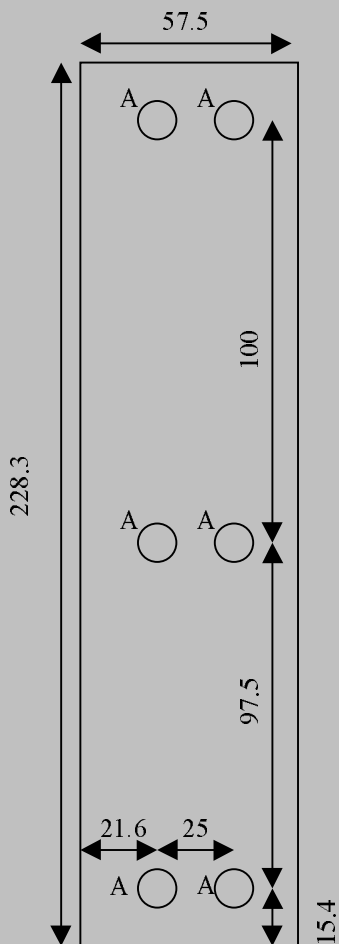
TOP VIEW



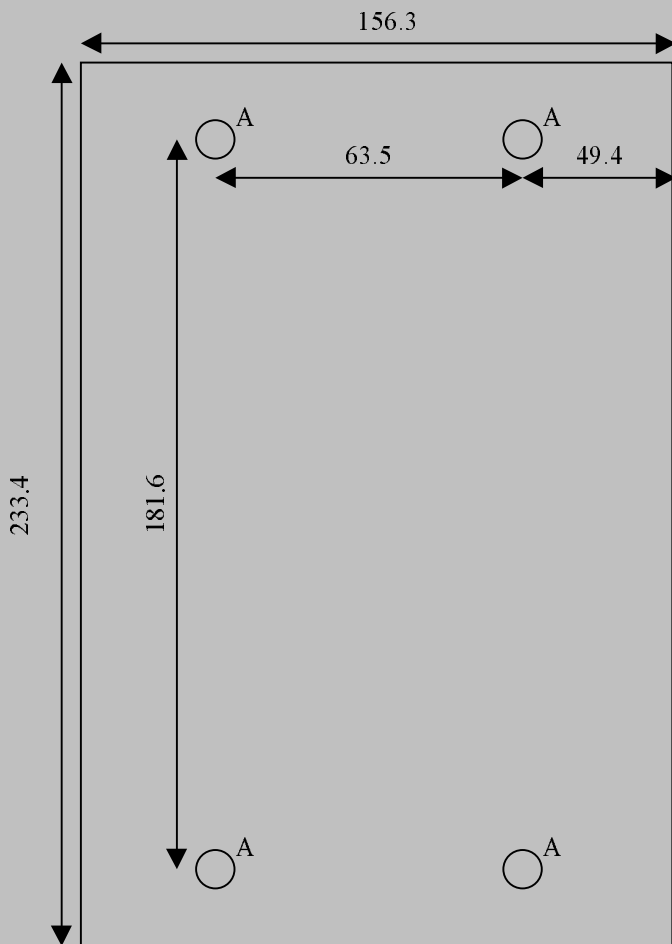
A : M3 CAPTIVE NUT
Maximum Insertion 6mm

Alternative Output
Configurations Available

SIDE VIEW



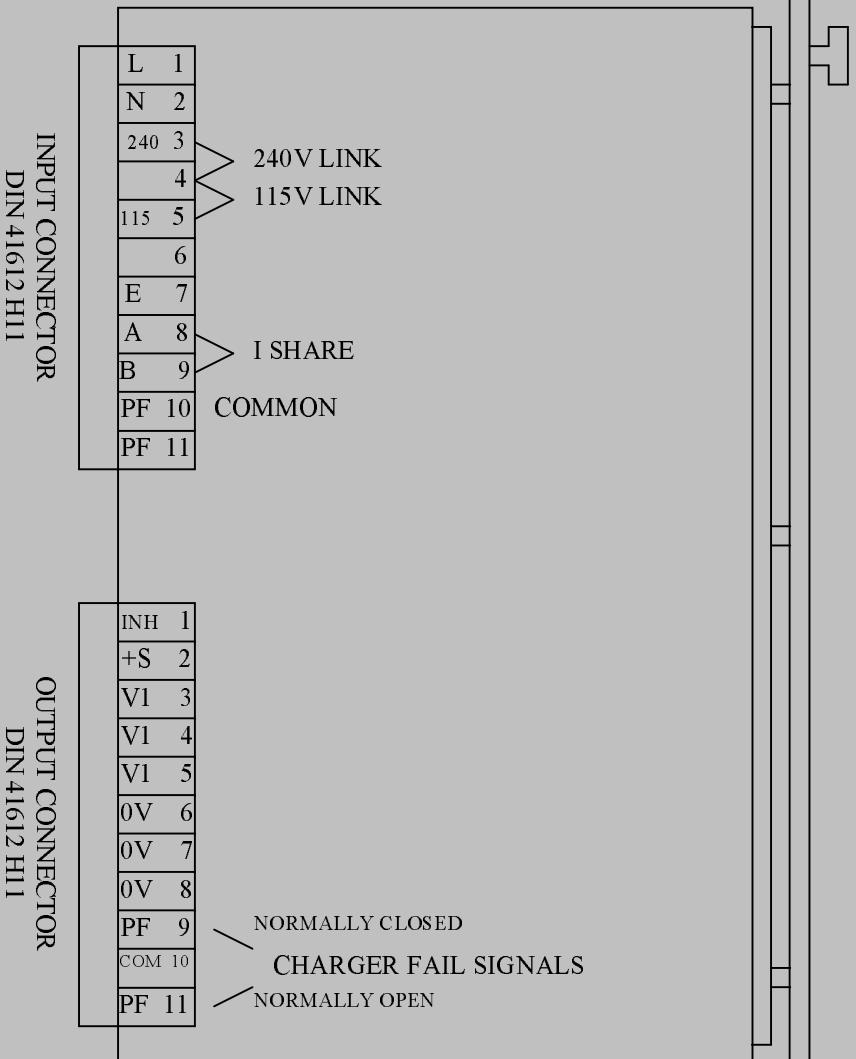
BOTTOM VIEW



FX200 Series

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".

