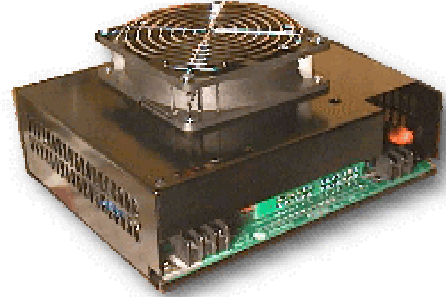


FX550 Lead acid charger series

550 Watt Switched Mode

Features:

- High reliability
- Thermal protection as standard
- Industry standard footprint
- Float charge @ 2.25V/Cell
- Constant current / voltage charge
- Internal ORing diode to prevent discharge
- Front panel available for 19" Rack applications



Description:

The FX550 float / boost charger series offers high reliability and performance with in the mid-band power bracket and has proven to be popular for applications requiring a high autonomy. Optional features include mains input auto-select, top or side fan cooling, powerfail, charger output OK, inhibit / enable control and current share for parallel use. Internal ORing diode fitted as standard.

Specification:

Outputs

FX550-06 : 6.75V / 81.5A	FX550-36 : 40.5V / 13.6A	FX550-96 : 108V / 5.1A
FX550-12 : 13.5V / 40.1A	FX550-48 : 54V / 10.2A	FX550-120 : 135V / 4A
FX550-24 : 27.6V / 20.4A	FX550-60 : 67.5V / 8.2A	FX550-240 : 270V / 2A

Input

Input range : 90-132Vac / 180-264Vac (90-264Vac auto-select)
 Frequency range : 47-63Hz
 Input VA : 1050VA Max @240Vrms
 Earth leakage : 1.5mA typical @ 264Vac
 Inrush current : <30A@ peak input volts
 Power Factor : 0.67 typical @ 230Vac
 Hold up time : 20ms from 240V @ full load
 Input fuse: F12AHRC 32 x 6.3mm

Output

Output voltages / currents : see table
 Voltage adjustment : +/- 5% * wide range available
 Initial setting : 0.5%
 Load regulation : <1%
 Line regulation : <0.2% over input range
 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 >550W
 Output power : 550W Fan cooled
 Temperature coefficient : 0.02%/°C
 Shock and vibration : Meets MIL STD810E

Options

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
Side fans available	IEC Mains inlet
Connection via M6 studs or 9mm screw terminals	
Battery temperature compensation @ 0.2% Vout/°C	
Boost charge @ 2.4V/cell (reduce to float charge@80%)	

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" screw terminals, M6 studs or custom loom assy.

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-B (conducted)
 EN55022-A (radiated)

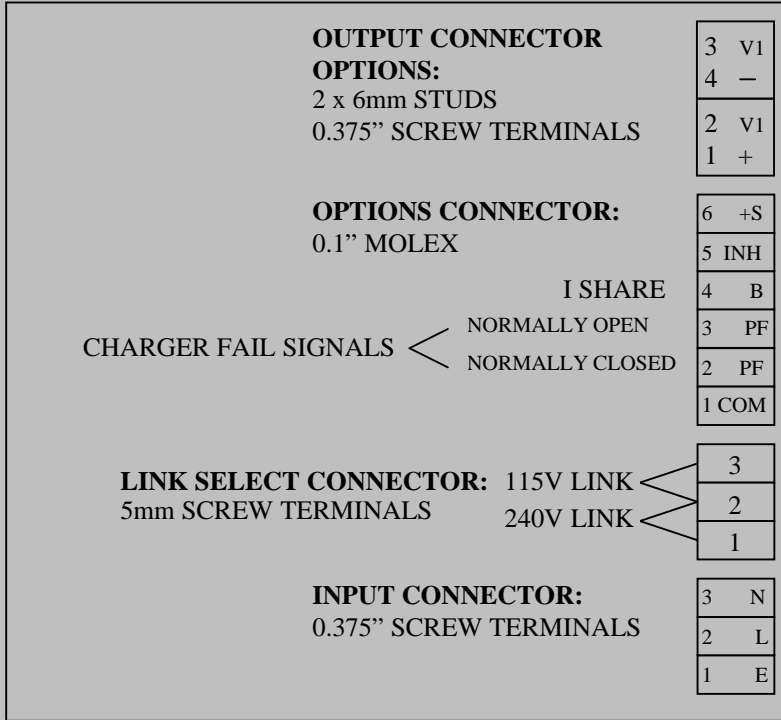
Immunity designed to meet:

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)

FX550 Series

Mechanical Details and Connections

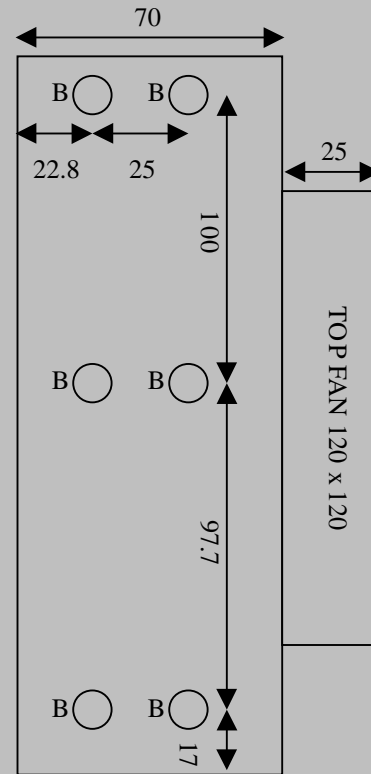
TOP VIEW



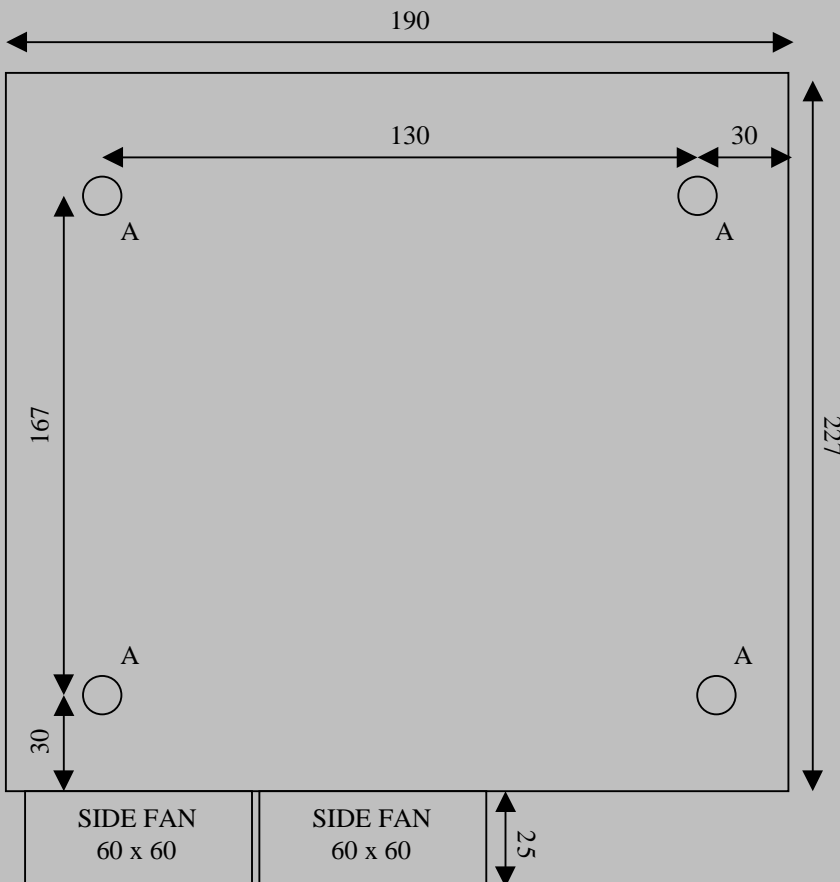
A : M3 CAPTIVE NUT
Maximum Insertion 6mm

B : M4 CAPTIVE NUT
Maximum Insertion 6mm

SIDE VIEW



BOTTOM VIEW



TOP FAN 120 x 120

SIDE FAN
60 x 60

SIDE FAN
60 x 60

25