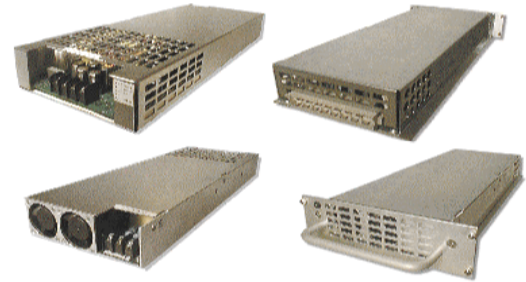


# FXP700 Lead acid charger series

## 700 Watt Switched Mode

### Features:

- Universal mains input (90-264Vac)
- Low profile - High density format
- Thermal protection as standard
- Active PFC to EN61000-3-2 D
- Conforms to International safety regulations
- Optional 19" Rack (1U Available) or chassis mount



Low Profile: 347x127x49.5 ( 1U optional )

**Description:** The FXP700 series offers a high performance / high efficiency battery charging source for numerous applications which may require a higher backup autonomy than usual. It's low profile make it particularly ideal for applications where space is critical. A host of standard options are available including temperature compensation and custom options are available where required ( contact sales ).

The product is fully designed to meet the international safety requirements of UL60950, CSA22.2 no 950 & 234 and EN60950 and CE marked to LVD.

### Specification:

#### Input

Input voltage : 90 – 264vac  
 Input freq. : 47 – 63Hz  
 Inrush current : < 30A (230Vac)  
 Earth Leakage : <2.5mA

#### Output

Output voltage / currents: see table (custom available)  
 Adjustment : ± 5%  
 Line regulation : ± 0.02%  
 Load regulation : ± 1%  
 Hold up time : 28mSecs from 220V full load  
 Minimum load : Not required  
 Dynamic reg. : 1% for 25% load change  
 Ripple & noise : 0.2% RMS, 1% pk to pk (DC – 30MHz)  
 Overload Protection: Electronic protection >110% constant I.  
 Over voltage protection: 115 – 125% crowbar cycle mains to reset  
 Temperature coefficient: 0.02%/°C  
 Max power: 700W  
 Thermal protection: Internal 120°C thermostat shuts down unit if internal rating exceeded

#### Options

Front Panel for 19" rack applications  
 Enable or inhibit (HI or LO as required)  
 DC output OK signal via volt free relay  
 Mains power-fail: Provides TTL compatible output 5mS warning  
 Active current Share: Provides 60:40% maximum share ratio  
 Internal series ORing diode for hot-swap applications  
 Voltage or current programming control:  
 (0-10Vdc as standard but 0-5Vdc available)  
 10Vdc @ 1mA internal ref. supplied  
 Low battery disconnect signal

### Outputs

	FXP700-36: 40.5V / 17.2A	FXP700-96: 108V / 6.5A
FXP700-12: 13.5V / 52A	FXP700-48: 54V / 13A	FXP700-120: 135V / 5.2A
FXP700-24: 27.6V / 25A	FXP700-60: 67.5V / 10.4A	FXP700-240: 270V / 2.6A

#### General

Efficiency: 80% typical  
 MTBF: >100,000 hrs to MIL-STD-217F @ 25°C  
 Dielectric strength:  
 4.25Kvdc input to Output  
 2.25Kvdc input to Earth  
 500Vdc output to Earth  
 Connections: 0.375" Beau screw terminals as standard - H15 DIN 41612 or M6 studs optional  
 Signals: 10 Way IDC header

#### 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

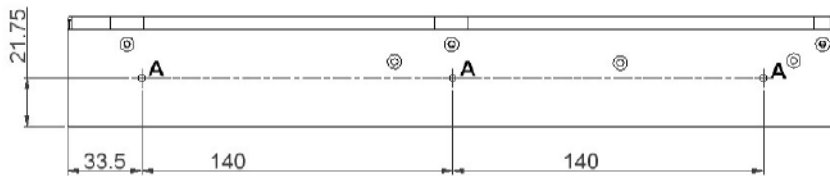
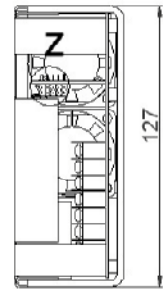
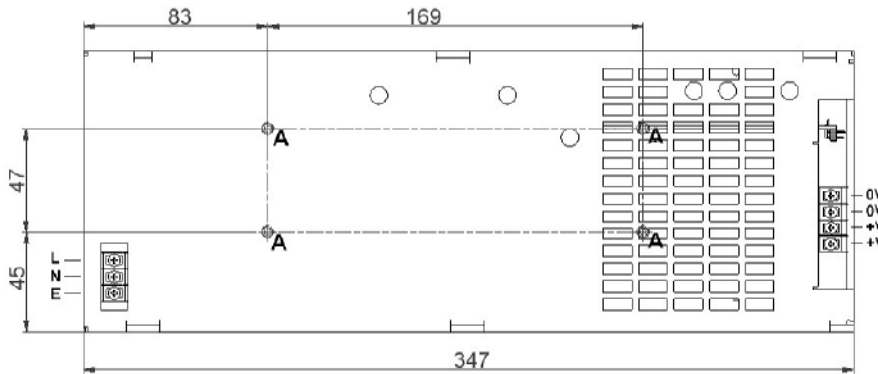
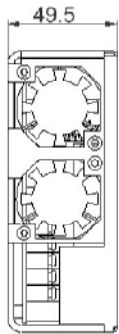
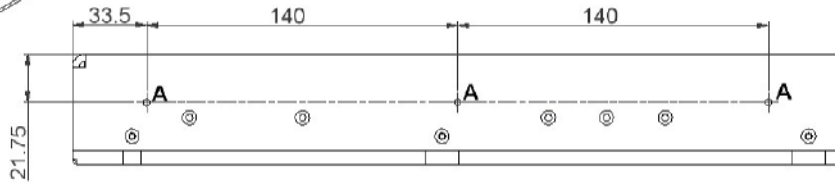
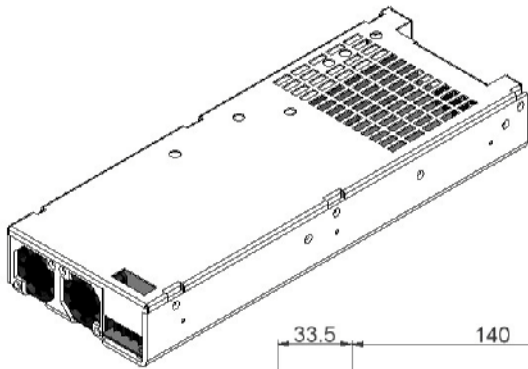
Isolation, input to earth : 2.5kVdc, >2.5mm  
 Isolation, input to output : 4.25KVdc, >6.4mm  
 Isolation, output to earth : 500Vdc  
 (unless commoned)  
 Units designed to meet: EN60950, UL60950, CSA 22.2 No. 950 & 234  
 Emissions designed to meet: EN55022-B (conducted)  
 EN55022-A (radiated)

Immunity designed to meet:

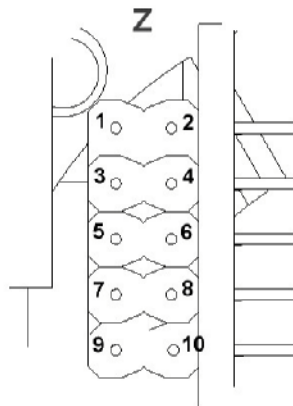
EN61000-4-2 (ESD)  
 EN61000-4-3 (RAD)  
 EN61000-4-4 (FAST TRANS)  
 EN61000-4-5 (SURGE)  
 EN61000-4-6 (CONDUCTED)  
 EN61000-4-8 ( MAGNETIC)  
 EN61000-4-11 (VOLTAGE DIPS & FLUCTUATIONS)  
 EN61000-3-2 ( MAINS HARMONICS )  
 EN61000-3-3 ( VOLTAGE FLUCTUATIONS )

# FXP700 SERIES

## Mechanical Details and Connections



A = 13x M3 BUSH



PIN	DESCRIPTION
1	TEMP COMP (1)
2	I SHARE
3	CHARGER FAIL N/C
4	0V
5	CHARGER FAIL COM
6	N/C
7	CHARGER FAIL N/O
8	POWERFAIL-TTL
9	N/C
10	TEMP COMP (2)