

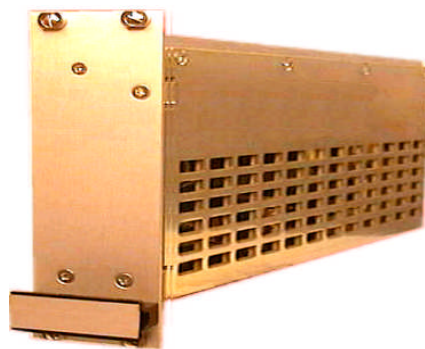
FP150 Euro SERIES

150 Watt Switched Mode Power Supply



Features:

- 19" rack mountable format
- Low profile – 1U or 3U 8HP
- Thermal protection as standard
- Up to five outputs available
- 500Vdc maximum output voltage
- Conforms to International safety regulations
- Power trading between outputs
- Optional 250W peak power available



Description:

The FP150 EURO series offers 150W of power with active PFC to meet the requirements of IEC/EN61000-3-2 D. Available with up to 5 outputs. Features include universal mains input for international use, low profile (<1U) and choice of either Molex or screw terminal connection. Options include mains powerfail, output remote sense, inhibit / enable control and ORing diode for N+1.

Specification:

Input

Input voltage : 90-264Vac
Frequency range : 47-63Hz
Earth leakage : 2.5mA typical @ 264Vac
Inrush current : <30A @ peak input volts
Power Factor : 0.98 typical @ 230Vac
Input current: 3.5A @ 90Vac
Hold up time : 20ms from 240V @ full load
Input fuse: F5AHRC

Output

Output voltage : As required within 3 – 500Vdc range
Output current : 40A maximum available
Voltage adjustment : +/- 5% (V1)+/- 2% (V3)
Initial setting : 0.5%
Load /cross regulation : <1% single o/p;(2.5% V1,3,4) (8% V5).
Line regulation : <0.5%, 90-264Vac/ 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 : All outputs
Output power : 150 Watts Convection cooled
Derating : 2.5% /°C above 50°C
Temperature coefficient : 0.02%/°C (V1)0.05%(V2-V5)
Shock and vibration : Meets MIL STD810F

Options

Molex or 5mm screw terminal connections
Mains powerfail signal
Output OK signal
Inhibit / Enable signal
ORing diode for N+1
Isolated outputs available
Current share for parallel use
350W peak power for high surge applications

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: DIN 41612 H15 as standard
(screw terminals 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

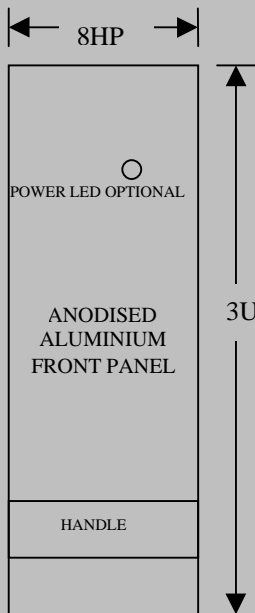
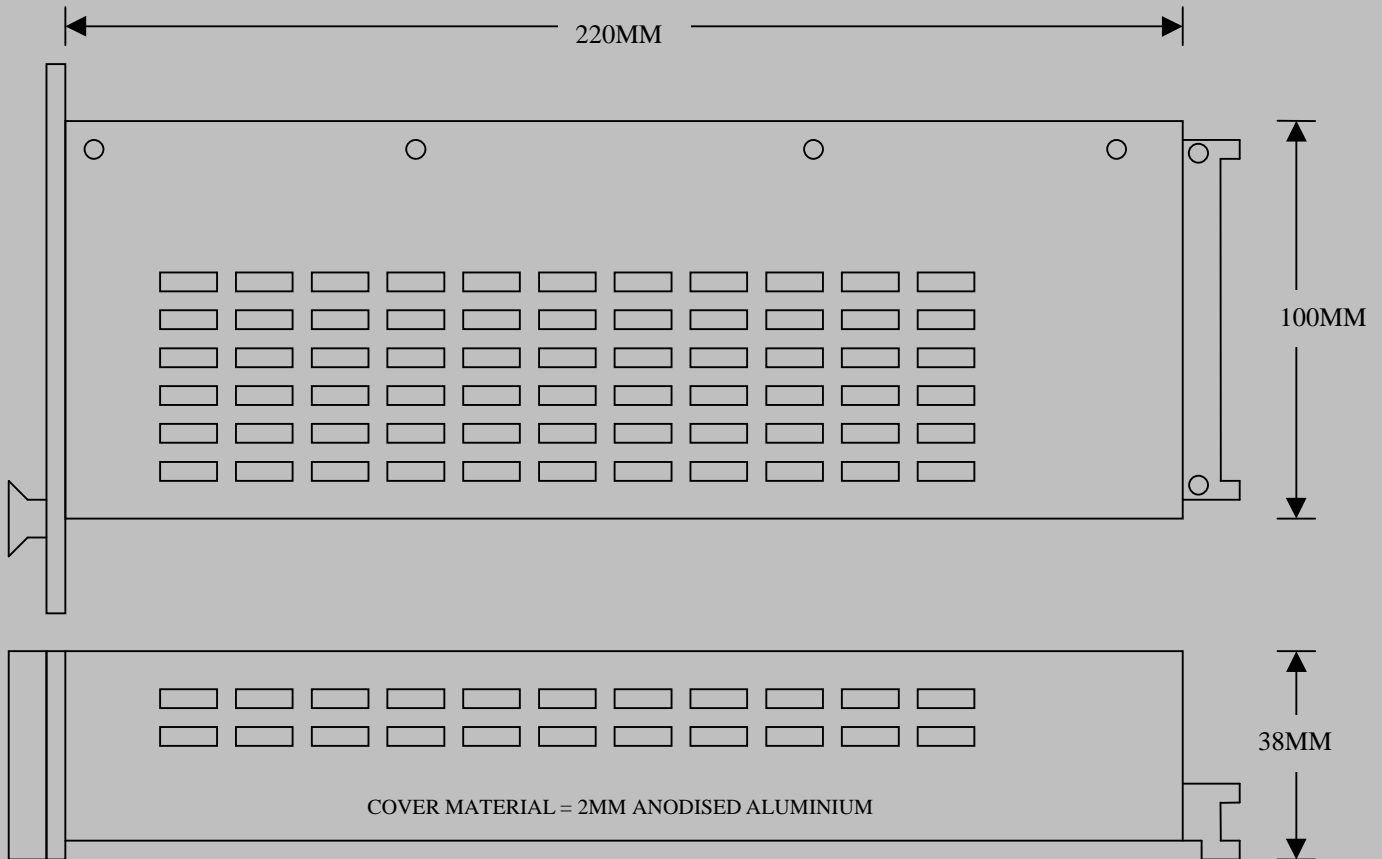
Isolation, input to earth : 2.5kVdc, >2.5mm
Isolation, input to output : 4.25KVdc, >6.4mm
Isolation, output to earth : 500Vdc
(unless commoned)
Units designed to meet: EN60950, UL60950,
CSA 22.2 No. 950 & 234
Emissions designed to meet: EN55022-B
(conducted) EN55022-A (radiated)

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)

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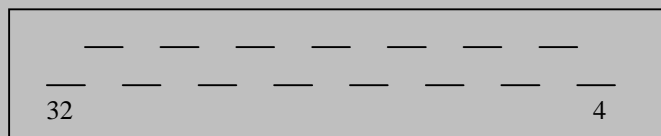
Mechanical Details and Connections



H15 CONNECTIONS :

32	EARTH
30	LIVE
28	NEUTRAL
26	N/C
24	PF (OPTIONAL)
22	N/C
20	PF COM (OPTIONAL)
18	PF (BAR) (OPTIONAL)
16	-12V (V3)
14	+12V (V2)
12	0V (V2/V3)
10	0V (V1)
8	0V (V1)
6	+5V (V1)
4	+5V (V1)

Note : Mains powerfail, power LED & remote inhibit / enable are optional



Note : This product is custom and hence configurable to customer specification. Please contact sales with any additional requirements not indicated within this specification or if different connector pin-out is required.