

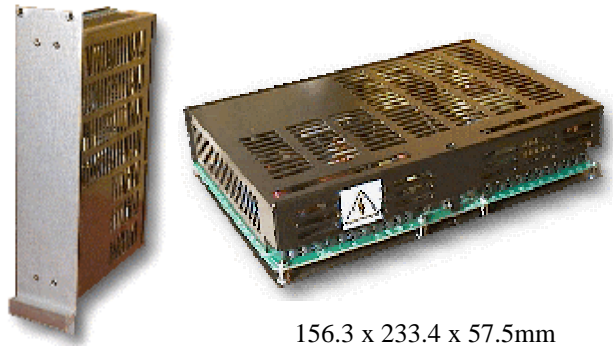
FS200 SERIES

200 Watt Switched Mode Power Supply



Features:

- High reliability
- Industry standard footprint
- Thermal protection as standard
- Up to five outputs available
- Front panel for 19" rack applications
- Eurocard or chassis mount
- Power trading between outputs
- Output voltages up to 600Vdc



156.3 x 233.4 x 57.5mm

Description:

The FS200 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. Connections are via DIN connection or screw terminals as required. Front panel options are available with format to specification if required.

Specification:

Input

Input range : 90-132Vac / 180-264Vac (90-264Vac Auto-select)
Frequency range : 47-63Hz
Earth leakage : 2.5mA 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 : 600Vdc max / 40A Current
Voltage adjustment : +/- 5% (V1)
Initial setting : 0.5%(V1);1.5%(V2 - V5)
Load regulation: <1% single o/p and V1;(2.5%V2-5) 10% min load
Line regulation : <0.5%, 90-132Vac/ 180-264Vac
Cross regulation : 1% (V2-5) for 10% load change on V1
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 : 200 Watts convection cooled
Temperature coefficient :0.02%/°C (V1)0.05%(V2-V5)
Shock and vibration : Meets MIL STD810E

Options

Mains input auto-select	Current share for parallel use
Mains powerfail signal	ORing diode for N+1
Remote sense	Output OK signal
Inhibit / enable control	Front panel to specification

Connection via H11 DIN 41612 or 7.5mm screw terminal
300W 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: 7.5mm screw terminal or 11W
DIN41612 as required.
(custom loom 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)

FS200 Series

Mechanical Details and Connections

TOP VIEW

CONNECTOR OPTIONS:
 7.5mm SCREW TERMINALS
 OR
 7.5mm RIGHT ANGLE SCREW
 TERMINALS

- | | |
|----|-----|
| 11 | V2 |
| 10 | V3 |
| 9 | V4 |
| 8 | 0V |
| 7 | 0V |
| 6 | 0V |
| 5 | V1 |
| 4 | V1 |
| 3 | V1 |
| 2 | +S |
| 1 | INH |

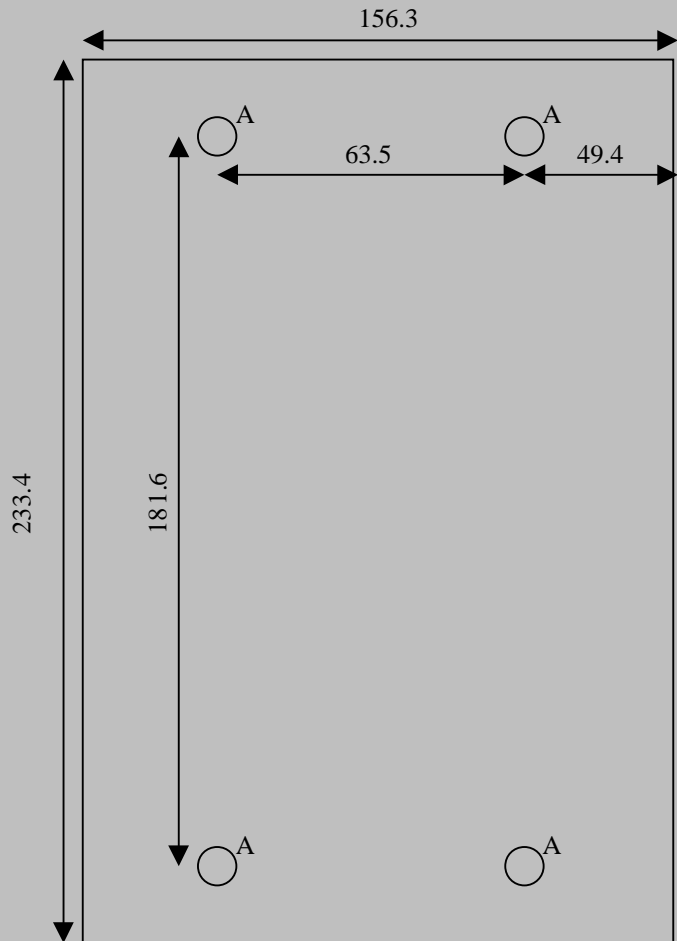
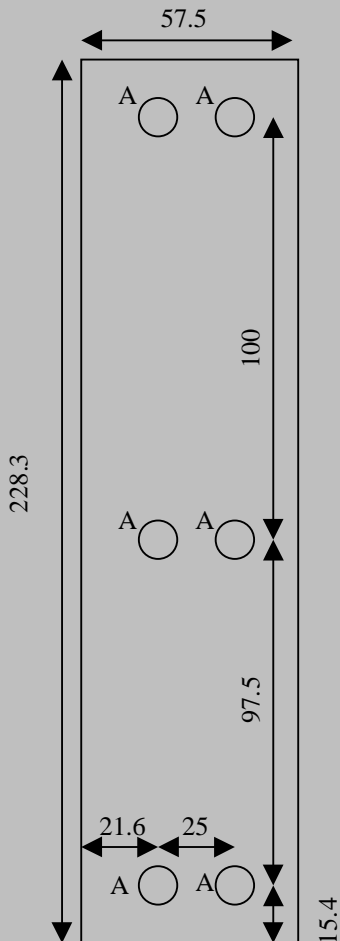
A : M3 CAPTIVE NUT
 Maximum Insertion 6mm

Alternative Output
 Configurations Available –
 contact sales for H15

- | | |
|----|-----|
| 11 | PF |
| 10 | PF |
| 9 | B |
| 8 | A |
| 7 | E |
| 6 | |
| 5 | 115 |
| 4 | |
| 3 | 240 |
| 2 | N |
| 1 | L |
- COMMON
- I SHARE
- 115V LINK
- 240V LINK
- INPUT

SIDE VIEW

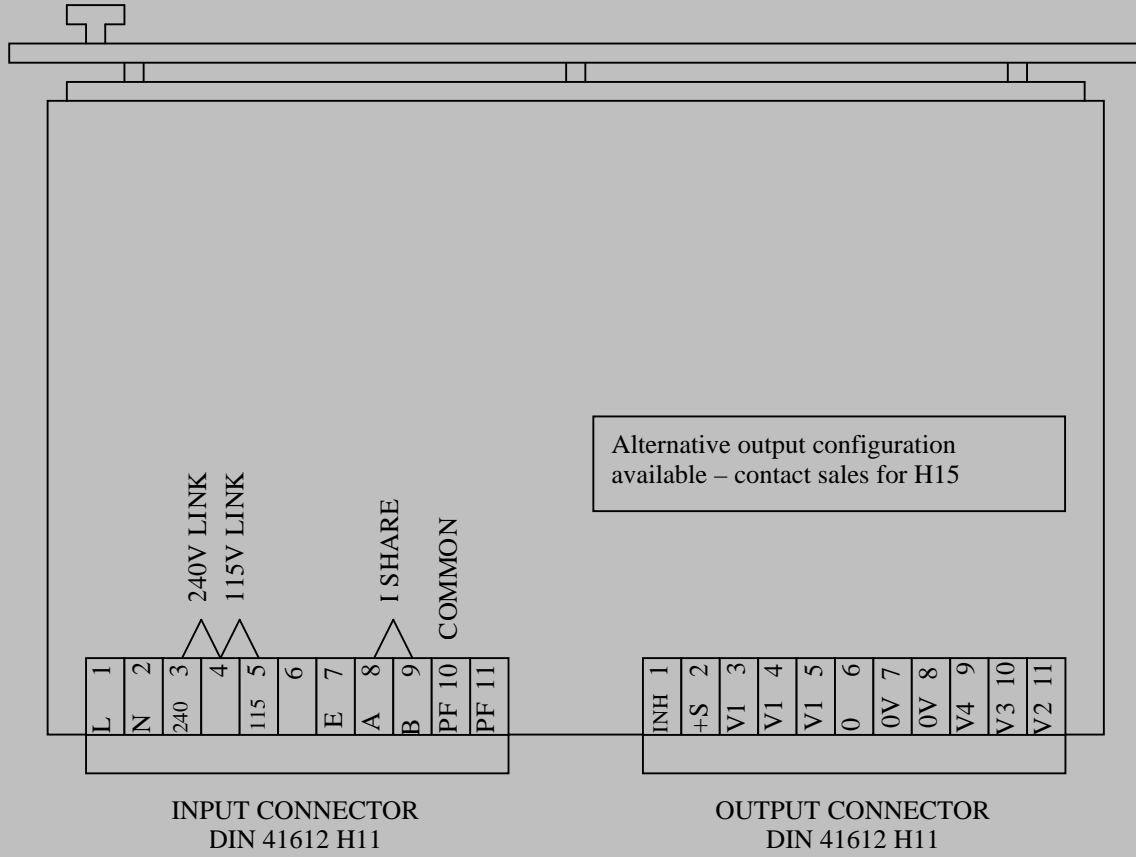
BOTTOM VIEW



FS200 Series

Mechanical Details and Connections

FS200 STANDARD DEPTH (160mm) EURORACK 6U x 12HP (TE)



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

