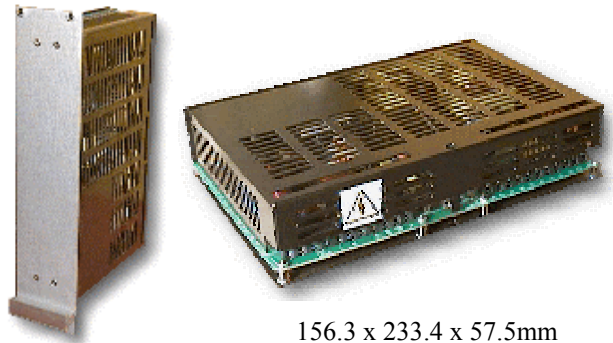


# FS200 SERIES

## 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 500Vdc



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 (contact sales for active PFC)  
 Input current: 2.2A @ 180Vac  
 Hold up time : 28ms from 240V @ full load  
 Input fuse: F5AHRC 5 x 20mm

#### Output

Output voltage : Factory configured (500Vdc/200W max)  
 Output current : Factory configured (40A/200W max)  
 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-STD-810F

#### 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 MIL-STD-217F @ 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:  
 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 )

# 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

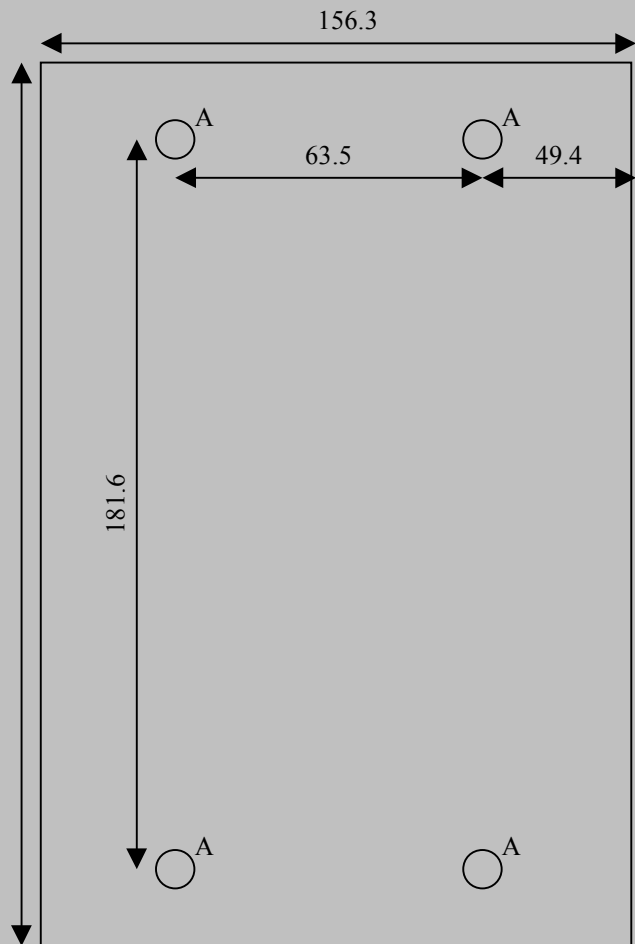
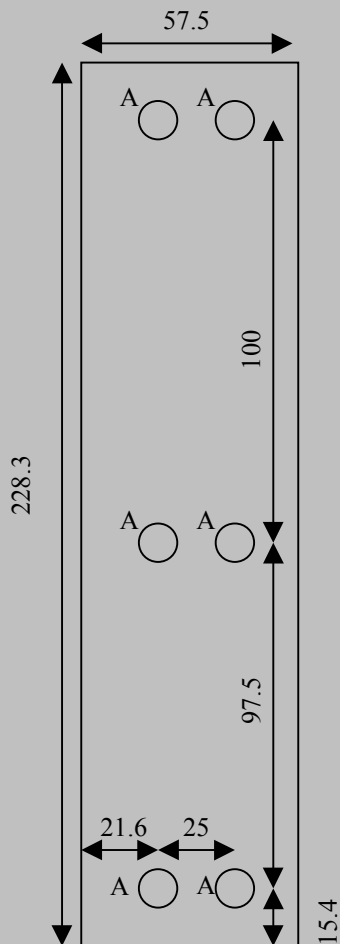
A : M3 CAPTIVE NUT  
 Maximum Insertion 6mm

Alternative Output  
 Configurations Available –  
 contact sales for H15

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

SIDE VIEW

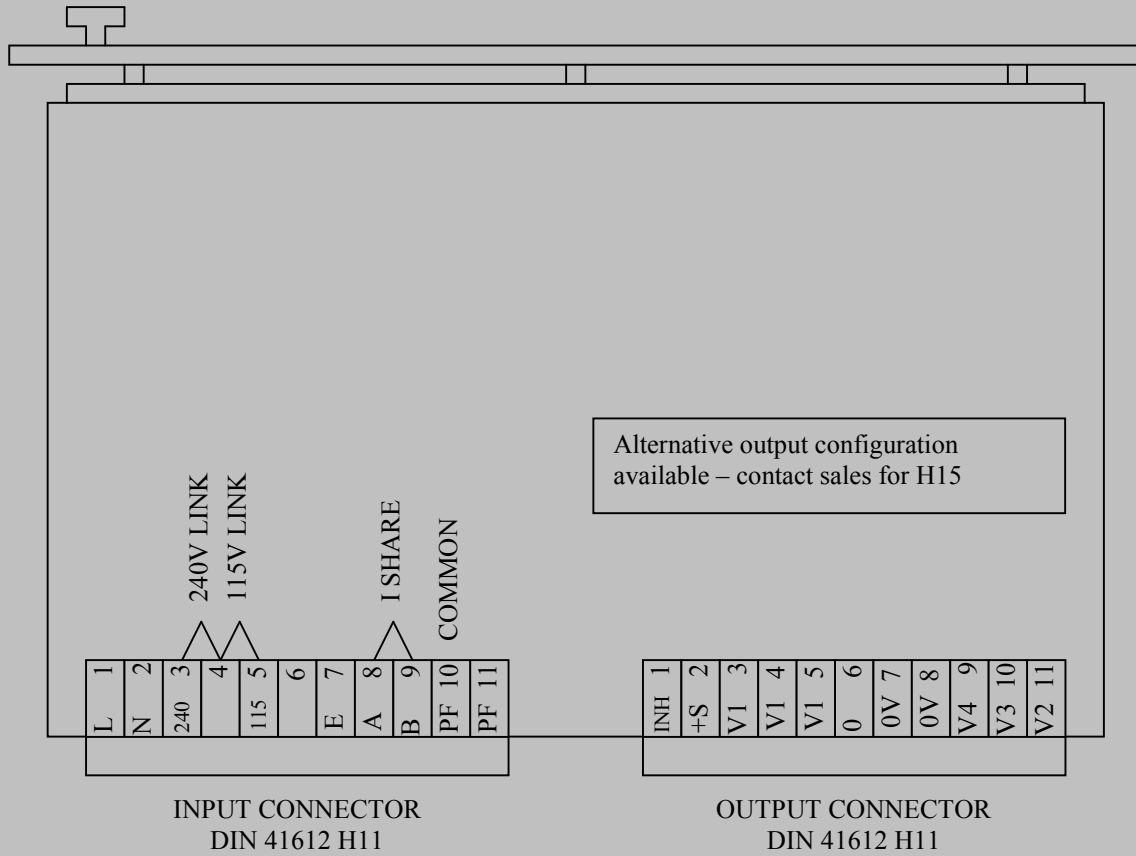
BOTTOM VIEW



# FS200 Series (Euro-option)

## 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".

