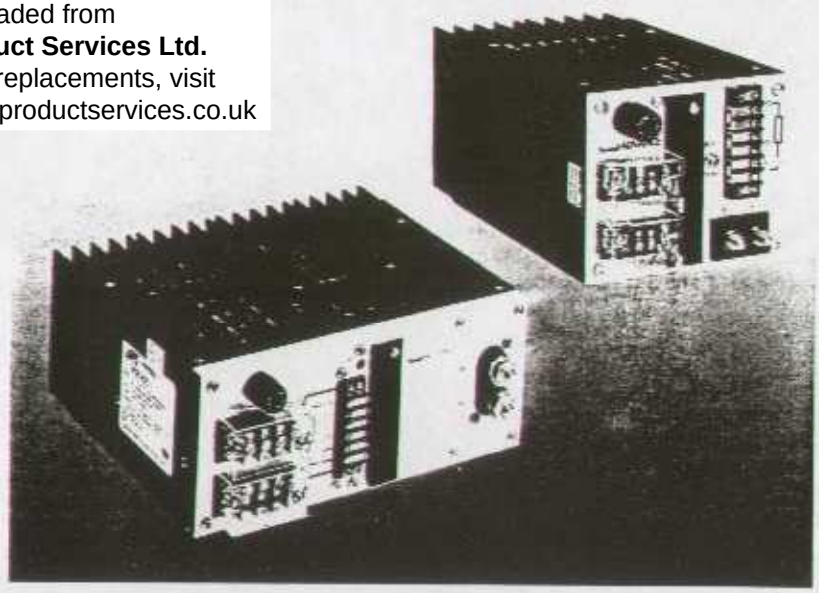


MODELS AVAILABLE

Model Number	Output Voltage	Adjustment Range	Output Current	Range	Order Code
MG5-20C	5V	4.75 – 5.25V	20A	MG100	05020170
MG5-40C	5V	4.75 – 5.25V	40A	MG200	05020270
MG5-60C	5V	4.75 – 5.25V	60A	MG300	05020360
MG12-10C	12V	11.4 – 12.6V	10A	MG100	05020470
MG12-20C	12V	11.4 – 12.6V	20A	MG200	05021410
MG15-8C	15V	14.25 – 15.75V	8A	MG100	05020570
MG15-16C	15V	14.25 – 15.75V	16A	MG200	05020670
MG24-5C	24V	22.8 – 25.2V	5A	MG100	05020770
MG24-10C	24V	22.8 – 25.2V	10A	MG200	05020871
MG24-15C	24V	22.8 – 25.2V	15A	MG300	05021060
MG48-5C	48V	45.6 – 50.4V	5A	MG200	05022770
MG48-7.5C	48V	45.6 – 50.4V	7.5A	MG300	05022660

INPUT SPECIFICATION

Input Voltage 92 – 132V a.c. on 115V tap. 176 – 264V a.c. on 230V tap.

Frequency 45 – 440Hz.

Supply Type Single phase TN-S systems (as defined in IEC364). i.e. systems with a separate earth conductor which is directly connected to the neutral conductor at the source.

Efficiency Minimum 75% when loaded to maximum rated output power.

OUTPUT SPECIFICATION

Voltage Nominal output voltage and adjustment ranges are shown in the table of models above.

Current Recommended maximum continuous current ratings (I_{MAX}) are shown in the table of models above. All maximum current ratings are applicable up to 50°C. From 50°C to 70°C, derate by 2.5%/°C.

Combined Regulation 0.1% maximum for a worst case combination of 100% load change and a ±10% line change within the rated input voltage range.

Ripple and Noise With the output loaded to I_{MAX}, the maximum differential noise voltage over the frequency range 10Hz to 30MHz does not exceed 0.2% V_{NOM} r.m.s; 1% V_{NOM} pk-pk.

PROTECTION

Hold Up All units have sufficient energy storage to ride through a missing mains cycle when supplying full rated output power at nominal input. At nominal input, 240V or 115V hold up >28ms.

Output Overvoltage The output is protected against overvoltage. On 5V outputs, unit shutdown will occur at between 120% – 130% of nominal voltage; on 12V outputs unit shutdown will occur at between 115% – 125% of nominal voltage, and on 15V outputs and above, unit shutdown will occur at between 110% – 120% of nominal voltage.

Output Overload All units are protected against output overload conditions.

AUXILIARY FUNCTIONS

Remote Sense Available on all units.

Parallel Operation All units shown are suitable for operation in parallel with other MG units of the same output voltage.

External Voltage Programming The output voltage of all units is programmable by an external resistor.

External Shutdown Output voltage may be shut down by connecting a short-circuit between terminals 1 and 6 of front panel terminal block.

ISOLATION

Primary to Secondary All units provide 2.1kV d.c. isolation from input to earth and 500V d.c. from output to earth.

ELECTROMAGNETIC COMPATIBILITY

Exported Noise All units meet the requirements of BS800 1977; VDE0871 Class A. VDE0875 Curve N.

MECHANICAL SPECIFICATION

Mechanical Format All units are supplied fully enclosed as standard.

Mounting Orientation Units may be mounted in any orientation with forced air cooling but if convection cooled they must be mounted to allow air convection through the slotted cover and heatsink.

Ventilation and Cooling There should be forced or free air convection through and over the whole surface of the unit.

ENVIRONMENTAL CONDITIONS

Operating Temperature 0 to 70°C. See current ratings in output specifications for any deratings required above 50°C.

Operating Humidity 0 to 90% R.H. non-condensing.

RELIABILITY

MTBF >100,000 hrs. at 25°C ground benign according to MIL HBK 217E.

INTERNATIONAL SAFETY STANDARDS

The units listed below have been tested by the following approval bodies to the standards listed and have been approved as being compliant with those standards or with the relevant sections of those standards.

BT Tech. Guides 2 & 26. MG100 and MG200 ranges (except MG48-5C); MG5-60C and MG24-15C.

UL UL1950 + D3.. All models.

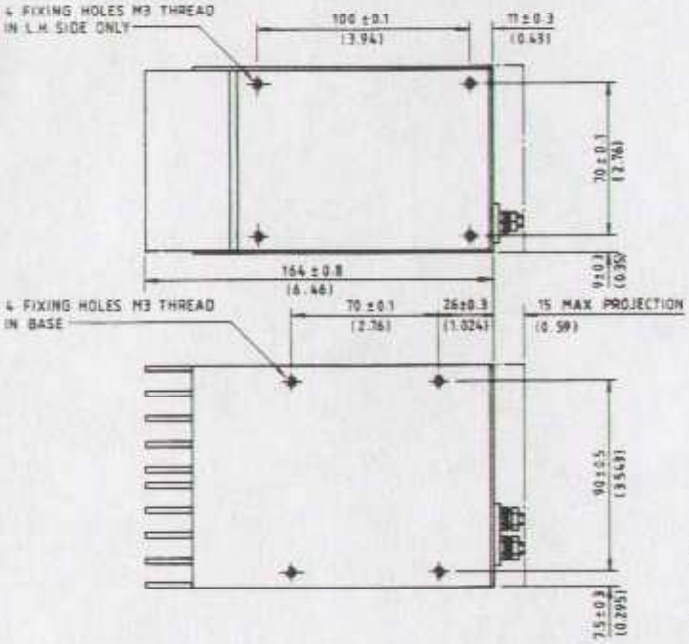
More detailed information is available on these units from your local sales office or agent. Please refer to Section L at the end of this catalogue for your local contact.

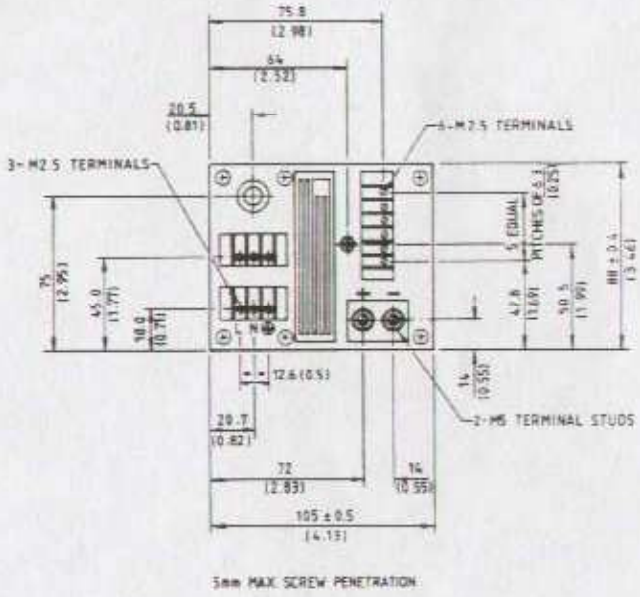
ORDERING INFORMATION

To order Refer to models available in the table or contact your nearest Farnell Power sales office.

MG 100 RANGE OUTLINE DRAWING

All dimensions are nominal and are given in mm (inches).





External Dimensions and Mass 105(4.13) x 88(3.46) x 164(6.46). 1.0kg (4.10lb).

Fixings 4 x M3 threaded mounting holes on left hand side. 4 x M3 threaded mounting holes on base.

Connectors The following connectors are provided on the power supply:

Input 3 x M2.5 screws.

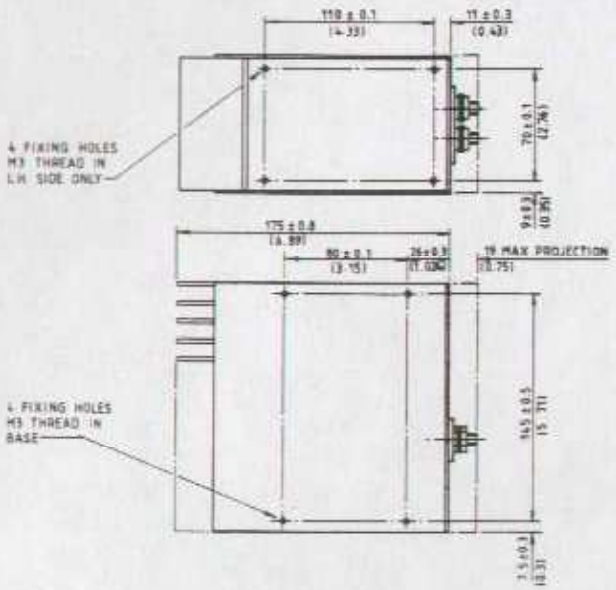
Output Studs.

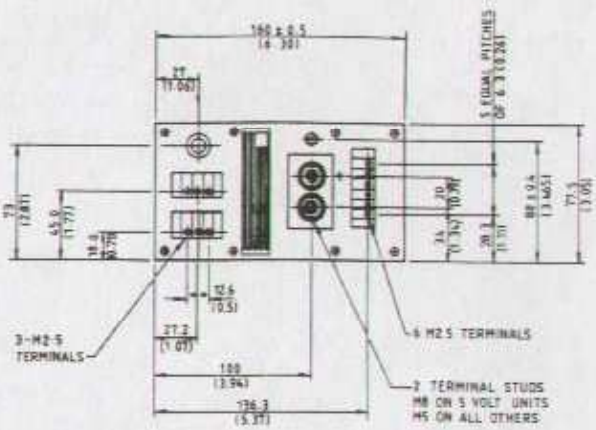
Input Voltage Selector Link.

Auxiliary Functions M2.5 screw terminals.

MG 200 RANGE OUTLINE DRAWING

All dimensions are nominal and are given in mm (inches)





External Dimensions and Mass

160(6.3) x 88(3.46) x 175(6.89) 2.8kg (6.17 lb).

Fixings 4 x M3 threaded mounting holes on left hand side.
4 x M3 threaded mounting holes on base.

Connectors The following connectors are provided on the power supply:

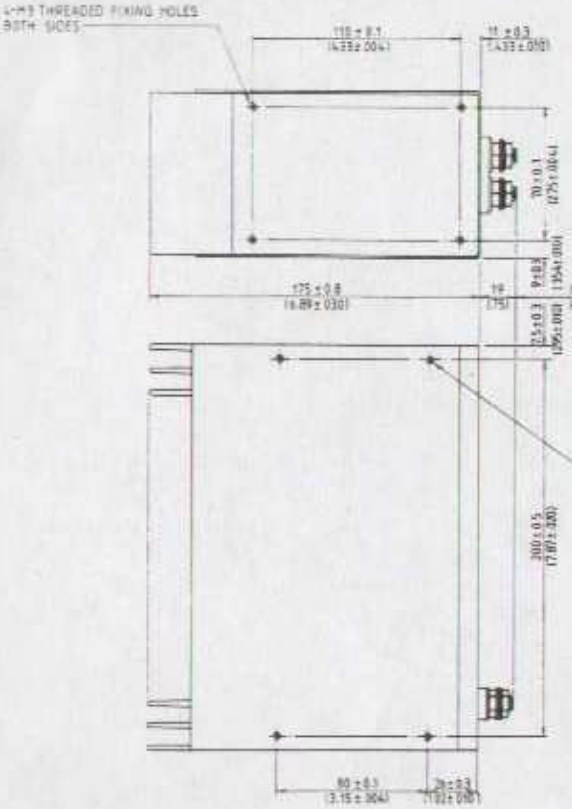
Input 3 x M2.5 screws.
Output Studs.
Input Voltage Selector Link.
Auxiliary Functions M2.5 screw terminals.

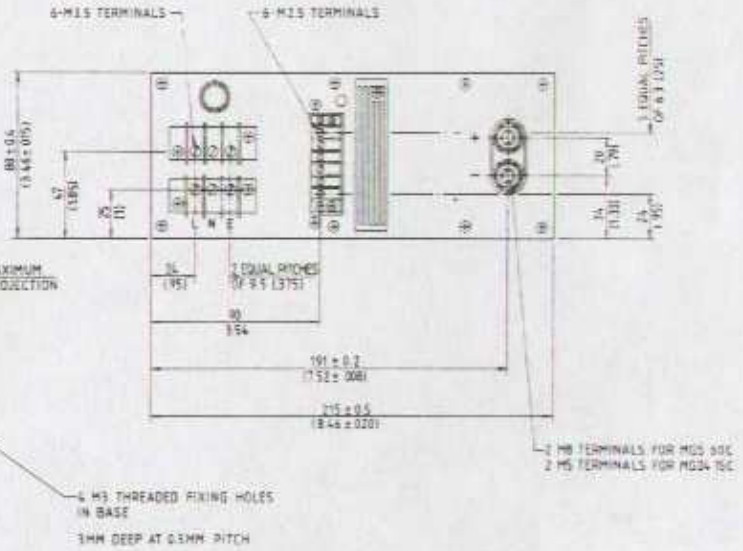
SINGLE OUTPUT

E 19

MG 300 RANGE OUTLINE DRAWING

All dimensions are nominal and are given in mm (inches)





External Dimensions and Mass

215(8.46) x 88(3.46) x 175(6.89) 4.2kg (9.26 lb).

Fixings 4 x M3 threaded mounting holes on left hand side.
4 x M3 threaded mounting holes on base.

Connectors The following connectors are provided on the power supply:

Input 3 x M3.5 screws.
Output Studs.
Input Voltage Selector Link.
Auxiliary Functions M2.5 screw terminals.