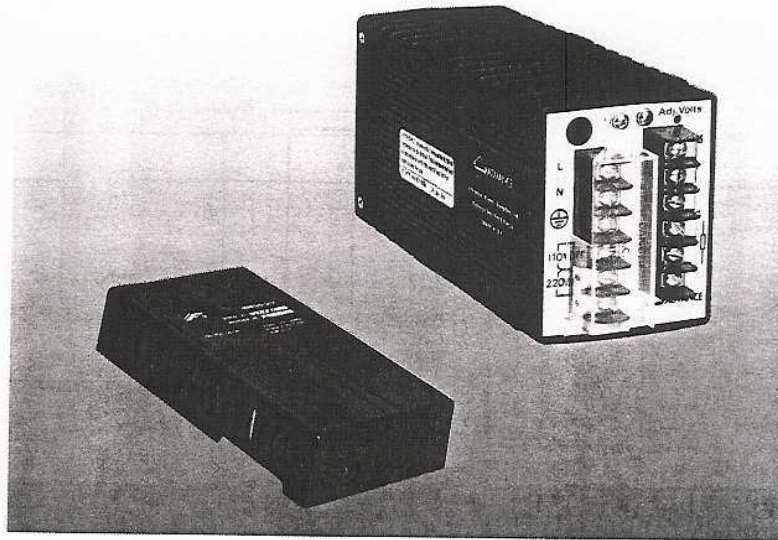


SINGLE OUTPUT

E 14



VDE

MODELS AVAILABLE

Model Number	Output Voltage	Adjustment Range	Output Current	Range	Order Code
MMG5-5	5V	4.5 – 5.5V	5A	MMG25	05025140
MMG5-10	5V	4.75 – 5.25V	10A	MMG50	05025500
MMG12-2.5	12V	10.8 – 13.2V	2.5A	MMG25	05025240
MMG12-5	12V	11.4 – 12.6V	5A	MMG50	05025600
MMG15-2	15V	13.5 – 16.5V	2A	MMG25	05025340
MMG15-4	15V	14.25 – 15.75V	4A	MMG50	05025700
MMG24-1.4	24V	21.6 – 26.4V	1.4A	MMG25	05025440
MMG24-2.5	24V	22.8 – 25.2V	2.5A	MMG50	05025800

INPUT SPECIFICATION

Input Voltage	176 – 264V a.c. on 230V tap. 92 – 132V a.c. on 115V tap (to special order only, on MMG25 range).
Frequency	MMG 25 Range: 47 – 440Hz. MMG 50 Range: 47 – 65Hz (400Hz to special order).
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	Typically 65% – 75% when loaded to maximum rated output power.

OUTPUT SPECIFICATION

Voltage	Nominal output voltages 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 maximum current by 2.5%/°C.
Combined Regulation	0.1% maximum for a worst case combination of 0 – 100% load change and either 198V to 264V or 99V to 132V line change.

Ripple and Noise

Less than 0.2% V_{NOM} r.m.s. (2MHz bandwidth). Typically 1% V_{NOM} pk-pk (30MHz bandwidth).

PROTECTION

Hold Up

The MMG series will ride through a missing mains cycle when delivering full rated current. MMG 25 range hold up >28ms at full rated current, nominal output voltage and 120V-10% or 240V-10% input. MMG 50 range hold up >28ms at full rated current, $V_{NOM} +5\%$ and 115V-10% or 220V-10% input.

Output Overvoltage

Set at 125%±5% on 5V units, 120%±5% on 12V units, 115%±5% on 15V and 24V units.

Output Overcurrent

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 MMG units of the same output voltage.

External Voltage

The output voltage of MMG 50 range units is programmable by an external resistor.

ISOLATION

Primary to Secondary Complete units are tested to 2kV a.c. r.m.s. between input and earth and simultaneously 500V a.c. r.m.s. between output and earth giving 2.5kV input to output.

Secondary to Earth Units are tested to 500V a.c. r.m.s. from output to earth, with all output terminals connected together.

ELECTROMAGNETIC COMPATIBILITY

Exported Noise All units meet the requirements of BS800 part 3; VDE 0871 Class A; VDE 0875 Curve N.

MECHANICAL SPECIFICATION

Mechanical Format All units are supplied fully enclosed.

Mounting Orientation MMG range units may be mounted in any orientation with forced cooling but, if convection cooled, they must be mounted to allow air convection through the slotted cover.

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

ENVIRONMENTAL CONDITIONS

Operating Temperature -10°C to +70°C. See output specifications for any deratings required above 50°C.

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

RELIABILITY

MTBF 111,700 hrs. at 25°C, ground benign, according to MIL HBK 217E

INTERNATIONAL SAFETY STANDARDS

All units 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.

MMG25

UL UL1950.
VDE VDE0805; EN60950.
CSA C22.2 #234 Level 3.
BABT BS6301; BS6484.

MMG50

UL UL1950.
CUL C22.2 #234.

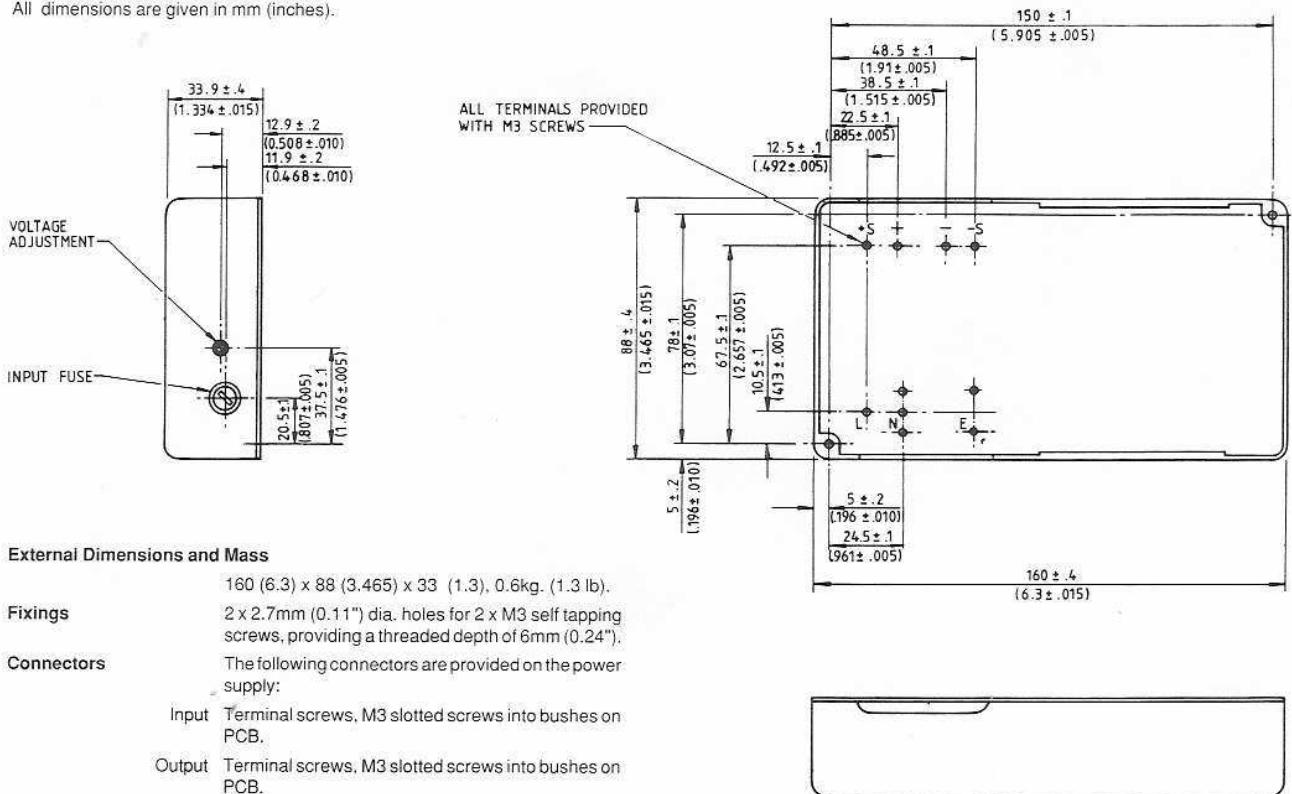
More detailed information is available on these units from your local sales office or agent. Please refer to Section L at the end of this catalogue for your local contact.

ORDERING INFORMATION

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

MMG 25 RANGE OUTLINE DRAWING

All dimensions are given in mm (inches).



External Dimensions and Mass

160 (6.3) x 88 (3.465) x 33 (1.3), 0.6kg. (1.3 lb).

Fixings

2 x 2.7mm (0.11") dia. holes for 2 x M3 self tapping screws, providing a threaded depth of 6mm (0.24").

Connectors

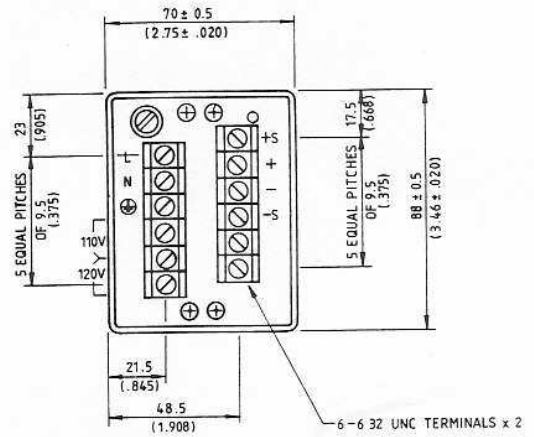
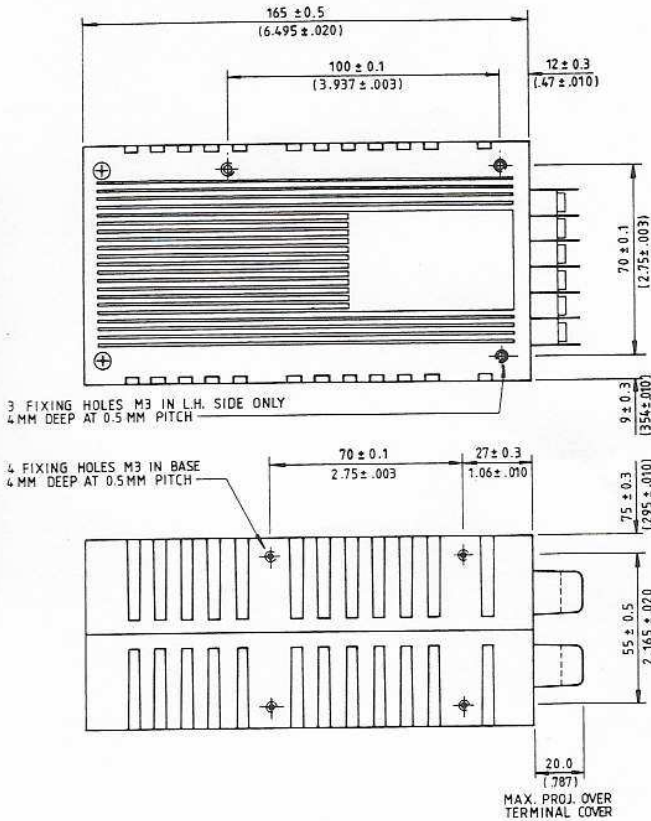
The following connectors are provided on the power supply:

Input Terminal screws, M3 slotted screws into bushes on PCB.

Output Terminal screws, M3 slotted screws into bushes on PCB.

MMG 50 RANGE OUTLINE DRAWING

All dimensions are given in mm (inches).



External Dimensions and Mass

165 (6.495) x 70 (2.75) x 88 (3.46), 1kg (2.2 lb).

Fixings

Two sets of M3 ISO standard threaded inserts are provided. One set of 3 in the left side panel, one set of 4 in the base.

Connectors

The following connectors are provided on the power supply:

Input Beau terminal 72000 series connectors.

Output Beau terminal 72000 series connectors.

Input Voltage Selector Link provided on input connector.

Auxiliary Functions Link provided for internal/external programming on output connector.