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SUMMARYSPECIFICATION

Model Number	Input Voltage	Nominal Voltage	Adjustment Range	Output Current	Cooling	Dimensions
MMG5-10	92 – 132V a.c. 176 – 264V a.c.	5V	4.75 – 5.25V	0 – 10A	Convection	165 x 70 x 88mm
MMG12-5		12V	11.4 – 12.6V	0 - 5A	Convection	
MMG15-4		15V	14.25 – 15.75V	0 -4A	Convection	6.50 x 2.75 x 3.46in.
MMG24-2.5		24V	22.8 - 25.2V	0 - 2.5A	Convection	

INP	UT	SP	ECI	FIC	ATI	ION

Input Voltage

176 - 264V a.c. on 230V tap. 92 - 132V

a.c. on 115V tap.

Frequency

47 – 65Hz (400Hz to special order).

Supply Type

Single phase TN-S systems (as defined

in IEC364).

Efficiency

Typically 65% - 75% when loaded to maximum rated output power.

OUTPUT SPECIFICATION

Voltage

Nominal output voltages and adjustment ranges are shown in the summary

specification above.

Current

Recommended maximum continuous current ratings (I_{MAX}) are shown in the summary specification 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% V_{NOM} 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. over a 2MHz bandwidth. Typically 1% V_{NOM} pk-pk over

a 30MHz bandwidth.

PROTECTION

Hold Up

Units will ride through a missing mains cycle when delivering full rated current. Hold up >28ms at full rated current, V_{NOM} +5% and 115V–10% or 220V–10% input.

Output Overvoltage

Set at 125% $\pm 5\%$ on 5V units, 120% $\pm 5\%$ on 12V units, 115% $\pm 5\%$ 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 is programmable by an external resistor.

ISOLATION

Primary to Secondary

Reinforced insulation to 3kV a.c. r.m.s. for one minute. Complete units are tested to 1.5kV a.c. between input and output with all output terminals connected together and connected to earth

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.

CE marked to the Low Voltage Directive

UL

UL1950.

VDE

EN60950; VDE0805

CUL

C22.2 #234.

For more detailed information on these units please contact your local sales office or agent.

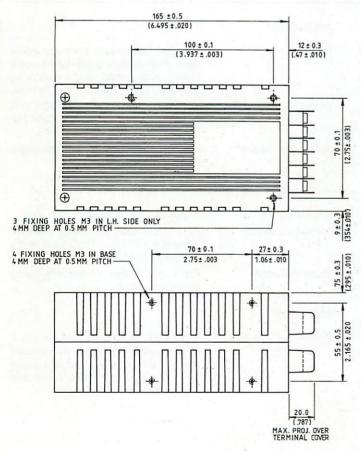
ORDERING INFORMATION

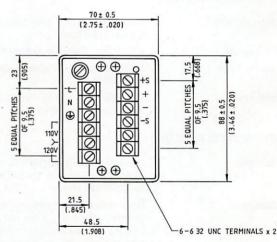
To order specify the order code for the model number required:

Model Number	Order Code		
MMG5-10	05025520		
MMG12-5	05025620		
MMG15-4	05025720		
MMG24-2.5	05025820		

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

The following connectors are provided on the

of 4 in the base.

Connectors

power supply:

Input Beau terminal 72000 series connectors.

Output

Beau terminal 72000 series connectors.

Input Voltage Selector Auxiliary Functions Link provided on input connector.

Link provided for internal/external programming on output connector.