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SUMMARY SPECIFICATION

Model Number	Input Voltage	Nominal Voltage	Adjustment Range	Output Current	Cooling	Dimensions
MG5-20C	92 – 132V a.c. 176 – 264V a.c.	5V	4.75 – 5.25V	0 – 20A	Convection	164 x 105 x 88mm 6.46 x 4.13 x 3.46 in.
MG12-10C		12V	11.4 – 12.6V	0 – 10A	Convection	
MG15-8C		15V	14.25 – 15.75V	0 – 8A	Convection	
MG24-5C		24V	22.8 – 25.2V	0 – 5A	Convection	

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

OUTPUT SPECIFICATION

Voltage	Nominal output voltage 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 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. Latching shutdown occurs at the following levels (percent of nominal): 5V outputs 125% ± 5% 12V outputs 120% ± 5% 15V outputs 115% ± 5% 24V outputs 115% ± 5%
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.

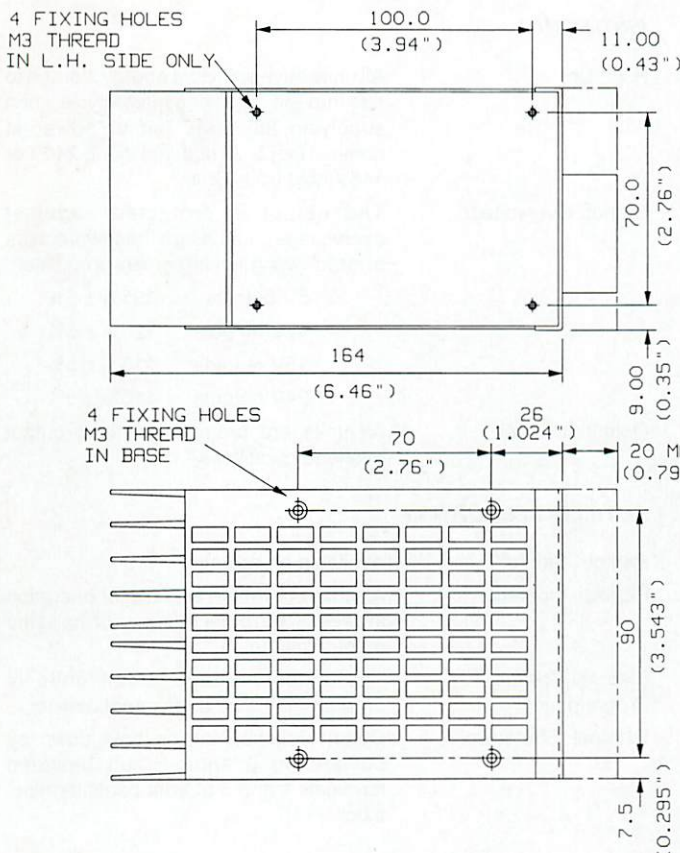
ENVIRONMENTAL CONDITIONS

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.

OUTLINE DRAWING

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



RELIABILITY

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

INTERNATIONAL SAFETY STANDARDS

The 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

VDE EN60950; VDE0805

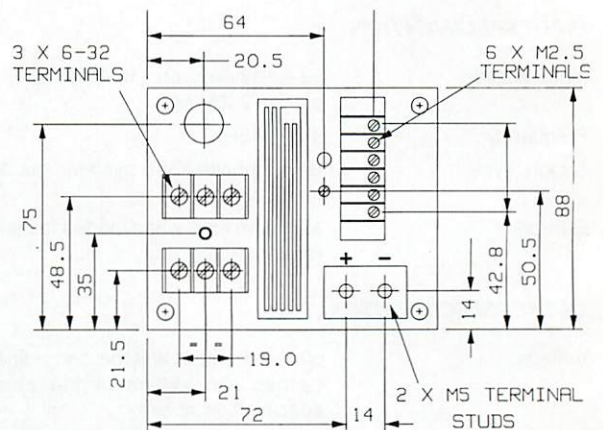
UL UL1950; CSA C22.2 #234.

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 required:

Model	Number
MG5-20C	05220100
MG12-10C	05220400
MG15-8C	05220500
MG24-5C	05220700



External Dimensions and Mass

105(4.13) x 88(3.46) x 164(6.46). 1.9kg (4.19lb).

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.