



Downloaded from
Advance Product Services Ltd.
 For repairs and replacements, visit
<http://www.advanceproductservices.co.uk>



A27

MODELS AVAILABLE

Model Number	Main Output			Auxiliary Outputs			Order Code
	Voltage	Adjustment Range	Current	Voltage	Adjustment Range	Current	
MGT5-20C	5V	4.75 - 5.25V	20A	15V	14.25 - 15.75V	1.75A	05020960
MGT5-20CV034	5V	4.75 - 5.25V	20A	15V	14.25 - 15.75V	1.75A	05020904
MGT400	5V	4.75 - 5.25V	60A	12V	11.25 - 12.75V	1.75A	05021510
				15V	8.5 - 15V	8A	

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 for MGT5-20C: 65%, and for MGT400: 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, except as indicated below, are applicable over the full operating temperature range of the units.
 Exceptions are: 50°C to 70°C derate by 2.5%/°C.

Power Refer to data sheet for power trading up to 400 Watts.

Combined Regulation

0.1% maximum for a worst case combination of 0-100% load change on 5V output, 0 - 100% load change on auxiliary outputs and $\pm 10\%$ line change. A minimum load of 10% should be maintained on the 5V output for the auxiliary outputs to maintain full capability.

Ripple and Noise

MGT5-20: Main output 10mV r.m.s.; 50mV pk-pk (30MHz bandwidth). Auxiliary outputs 3mV r.m.s.; 20mV pk-pk (30MHz bandwidth).
 MGT400: All outputs 10mV r.m.s.; 50mV pk-pk (30MHz bandwidth).

PROTECTION

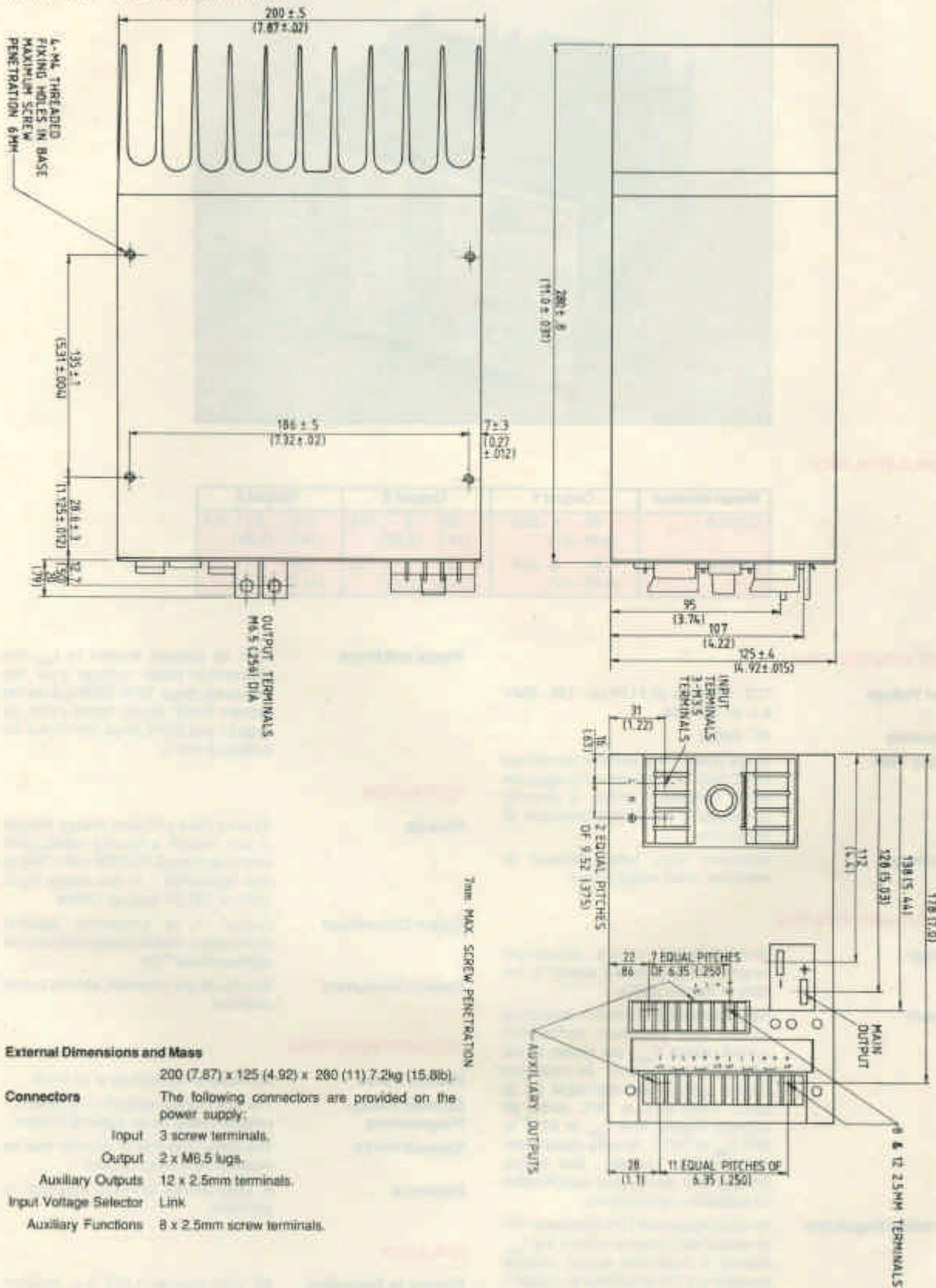
Hold Up

MGT power supplies operating at low nominal input voltage (115 or 220Va.c.) at 110% output voltage at the terminals can provide 28ms hold up (whole cycle) with up to 8% margin on the input voltage.

Output Overvoltage

All outputs shut down if voltage of main output exceeds 120% - 130% (no additional overvoltage protection of auxiliary outputs on MGT5-20C).

MGT400 RANGE OUTLINE DRAWING



External Dimensions and Mass

200 (7.87) x 125 (4.92) x 280 (11) 7.2kg (15.0lb)

Connectors

The following connectors are provided on the power supply:

- Input 3 screw terminals.
- Output 2 x M6.5 lugs.
- Auxiliary Outputs 12 x 2.5mm terminals.
- Input Voltage Selector Link
- Auxiliary Functions 8 x 2.5mm screw terminals.