15 TO 115 WATT RANGE

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SUMMARY SPECIFICATION

Model Number	Input Voltage	Output Number	Nominal Voltage	Adjustment Range	Output Current	Dimensions
RA05030			5V	4.75 – 5.25V	0 – 3A	102 x 124 x 52.5 mm
RB05060			5V	4.75 – 5.25V	0 – 6A	124 x 143 x 75 mm
RB12034	internation provide	n est i	12V	11.4 – 12.6V	0 – 3.4A	124 x 14 <mark>3</mark> x 75 mm
RD12068			12V	11.4 – 12.6V	0 – 6.8A	228.6 x 123.7 x 81.3 mm
RA15015		gart 🗼 E	15V	11.4 – 15.75V	0 – 1.5A	102 x 124 x 52.5 mm
RA24012	90 – 110V a.c.		24V	22.8 – 25.2V	0 – 1.2A	102 x 124 x 52.5 mm
RB24024	108 – 132V a.c. 198 – 242V a.c. 216 – 264V a.c.		24V	22.8 – 25.2V	0 – 2.4A	124 x 14 <mark>3</mark> x 75 mm
RD24048			24V	22.8 – 25.2V	0 – 4.8A	228.6 x 123.7 x 81.3 mm
RBB15015		1 2	+15V -15V or -5V	11.4 – 15.75V 11.4 – 15.75V	0 – 1.5A @ 15V 0 – 1.7A @ 12V 0 – 1.5A @ 15V 0 – 1.7A @ 12V 0 – 0.7A @ 5V	177.8 x 123.7 x 74.9 mm
RCC15030		1 2	+15V –15V or –5V	11.4 – 15.75V 11.4 – 15.75V	0 – 3.0A @ 15V 0 – 3.4A @ 12V 0 – 3.0A @ 15V 0 – 3.4A @ 12V 0 – 1.4A @ 5V	238.3 x 123.7 x 81.3 mm

INPUT SPECIFICATION

Input Voltage

Frequency Supply Type 90 – 110V on 100V tap. 108 – 132V on 120V tap. 198 – 242V on 220V tap. 216 – 264V on 240V tap. 47 – 440Hz. Single phase TN-S systems (as defined

in IEC364).

OUTPUT SPECIFICATION

Voltage

Current

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

Recommended maximum continuous current ratings (I_{MAX}) are shown in the table of models above. All maximum current ratings are applicable up to 40°C. Derate linearly from I_{MAX} at 40°C to 40% I_{MAX} at 60°C. All units require free air convection cooling. See outline drawing and mechanical specification for ventilation requirements.

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Load Regulation	The output load is varied by 100% I _{MAX} . Maximum voltage deviation as a	MECHANICAL SPECIFICATION		
Line Regulation	percentage of nominal is 0.1%. An input variation of 10% with the output loaded to I_{MAX} causes a maximum output voltage variation of 0.05% of nominal.	Mechanical Format	All units are supplied on 'L' chassis as standard. A metal mesh cover is available and is specified by adding 'M' to the end of the model number.	
Ripple and Noise	With the output loaded to I_{MAX} , the differential noise voltage over the frequency range $10H_2 - 80kH_2$ does not	Mounting Orientation	Units may be mounted in any orientation but additional cooling or derating may be required in some orientations.	
	exceed 5mV pk-pk or 0.02% of nominal, whichever is the greater.	Ventilation and Cooling	Units are convection cooled and require unrestricted airflow around the chassis.	
PROTECTION		ENVIRONMENTAL CON	DITIONS	
Output Overvoltage	The output of 5V units is protected against overvoltage as standard. Unit shutdown will occur at between 5.7V and 6.7V. Overvoltage protection is available as an	Operating Temperature	0 to 60°C. See current ratings in output specifications for any deratings required.	
		Operating Humidity	0 to 85% R.H. non-condensing.	
Outsuit Ourseast	option on other models.	RELIABILITY		
Output Overcurrent	All units are protected against output overload.	MTBF	200,000 hrs. at 25°C according to HRD4.	
AUXILIARY FUNCTIONS		SAFETY SPECIFICATION	NS	
Remote Sense	Available as standard on all units.	CE marked to the Low V	/oltage Directive.	
Parallel Operation	All units shown are suitable for operation in parallel with other units of the same model number.	For more detailed information on these units please contact your loca sales office or agent.		
Series Operation Units may be connected in series to provide higher output voltages.		ORDERING INFORMATION		
		The order code is simply the source code '16' followed by the model number. e.g. 16RA05030		
Primary to Secondary	All units provide 3kV a.c. isolation between	Covers are ordered separa Order codes are as follow	ately, if required, and are supplied in kit form. /s:	
primary and secondary circuits in accordance with EN60950.		To fit RA range:16RAM To fit RB range:16RBM To fit RD range:16RDM		

RARANGE OUTLINE DRAWINGS

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External Dimensions and Mass

	102(4.00) x 124(4.87) x 52.5(2.10). 1kg(2.2lb).
Fixings	8 x 4.8mm (0.19in) holes are provided on the chassis for mounting purposes.
Connectors	The following connectors are provided on the power supply:
Input	Solder tags on the transformer.
Output	1/4" 'fast-on' spade terminals.
Input Voltage Selector	Soldered links on the transformer.

Dim.	mm	Inch
A	101.6	4.00
В	85.73	3.375
C	123.70	4.87
D	104.78	4.125
E	12.70	0.50
F	41.15	1.62
G	19.05	0.75
н	11.43	0.45
J	9.65	0.38
K	14.48	0.57
L	66.04	2.60
М	17.78	0.70

All fixing holes 4.8mm $\left(\frac{3}{16}\right)$

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





External Dimensions and	Mass	
	124(4.87) x 143(5.62) x 75(2.95). 2kg (4.4lb).	
Fixings	12 x 4.8mm (0.19in) holes are provided on the chassis for mounting purposes.	
Connectors	The following connectors are provided on the power supply:	
Input	2.8mm (0.11in) 'Fast on' tags on transformers.	
Output	1/4" 'fast on' spade terminals.	
Input Voltage Selector	Soldered links on transformers.	

Dim.	mm	Inch	
Α	123.70	4.87	
В	104.78	4.125	
С	6.35	0.25	
D	142.75	5.62	
E	123.83	4.875	
F	12.70	0.50	
G	63.50	2.50	
н	31.75	1.25	
J	19.05	0.75	
K	11 <mark>.</mark> 43	0.45	
L	72.39	2.85	
M	26.04	1.025	
N	20.00	0.7874	
All fixing holes 4.8mm $\left(\frac{3}{16}\right)$ dia.			

RD RANGE OUTLINE DRAWING

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





External Dimensions and Mass

228.6(9.00) x 123.7(4.87) x 81.3(3.20). 3kg (6.6lb). 12 x 4.8mm (0.19in) holes are provided on the chassis for mounting purposes. Connectors

The following connectors are provided on the power supply: 2.8mm (0.11in) 'fast on' tags on transformers. Input 1/4" 'fast on' spade terminals.. Soldered links on transformers.

Output Input Voltage Selector

Fixings

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RBBRANGE OUTLINE DRAWING

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



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Dim.	mm	Inch
A	123.70	4.87
в	104.78	4.125
C	6.35	0.25
D	177.80	7.00
E	158.75	6.25
F	12.70	0.50
G	63.50	2.50
H	31.75	1.25
J	19.05	0.75
ĸ	11.43	0.45
L	72.39	2.85
M	26.04	1.025
N	20.00	0.79

All fixing holes 4.8mm $\left(\frac{3''}{16}\right)$ dia.

External Dimensions and	d Mass
	177.8 (7.0) x 123.7 (4.87) x 74.9 (2.96). 2.5kg (5.5lb)
Fixings	12 x 4.8mm (0.19in) holes are provided on the chassis for mounting purposes.
Connectors	The following connectors are provided on the powe supply:
Input	2.8mm (0.11in) 'fast on' tags on transformers.
Output	1/4" 'fast on' spade terminals
Input Voltage Selector	Soldered links on transformers.

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15 TO 115 WATT RANGE

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



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