



RITENGA DESIGN LTD

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SPECIFICATION OF 1500W HIGH FREQUENCY POWER SOURCE: Chassis mounted

Electrical:	8V 150A	12 120A
Input Voltage	207V – 253 single phase, 47 – 63Hz	
Input Current	8.4A at 207Vac	8.2A at 207Vac
Power Factor	>0.95 at full load	
Efficiency	>88%	
Output Voltage	8.0V	12.75V @ 60A
Ripple Voltage	<5% peak – peak (dependant upon load characteristic)	
Output Current	Adjustment available 0 -150A	Adjustment available 0 -120A
Ripple Current	<5% peak – peak (dependant upon load characteristic)	
Load regulation	<1% for output current = 10 – 100%	
Line regulation	< +/-0.5% for +/-10% mains variation	
Mains Input Protection	10A Fuse x 2 (Recommend fitting of 3 pole 10A MCB type B for mains isolation)	
Output Current Protection	Internal electronic control of current limit Short circuit protection	
Indication:	Green Led = Mains On	
	Green Led = Unit ON	
	Red Led = Unit Overheating	
	Amber Led = Low current Alarm (Output Current <50%)	
	Red Led = Under Voltage/ Over Voltage	
Control Connections:		
Voltage Monitor	0-10V (reference –ve output) ⇒ 0-100% output voltage Accuracy <=1%	
Current Monitor	0-10V (reference –ve output) ⇒ 0-100% output current Accuracy <=1%	
Current Control	0 – 10V for 0-100% current 	0-1Kohm for 0-100% current
Under Voltage Limit	10.0V	Adjustable, 9.5V – 10.0V
Over Voltage Limit	Not used	Adjustable, 11.5V – 12.0V
Alarm	Low Current alarm – Normally closed volt free contacts	
Stop / Start (Enable)	+5V 10mA ⇒ Start (Enable)	Closed contact ⇒ Start (Enable)
	All isolated to +/-1kV from DC output	

(cont)

Environment:		
Temp range	0 – 40°C	
Max Altitude	1000m (max output current to be reduced above 1000m)	
Cooling	Forced convection from lower face to upper face of unit.	
EMC & Safety:		
Conducted & Radiated EMI	EN55011 / EN55022, level B	
Safety Approvals	EN61010-1:2001	
Mechanical:		
Dimensions	311.9mm(w) x 107.5mm(d) x 316.2mm(h)	
Finish	Zinc Passivated	
Weight	<=10kg	<=20kg
Input Connection	Terminals – on lower face of unit – Cable Max = 4mmsq	
Output Connection	Busbar – on lower face of unit – M8 hole	Busbar – on lower face of unit – M10 hole
Control Connection	Terminal block – on lower face of unit – Cable max 1.0mmsq	

Layout

