

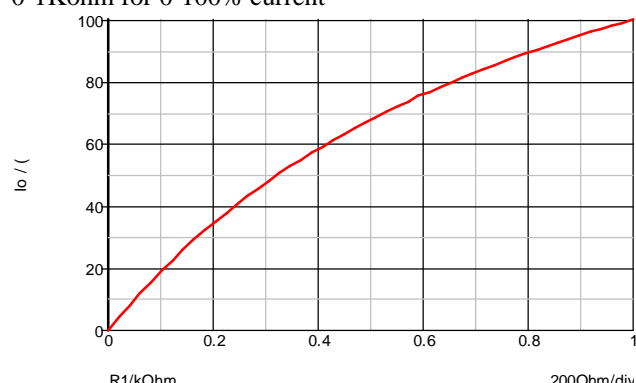
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SPECIFICATION OF 3000W HIGH FREQUENCY POWER SOURCE: Chassis mounted

Electrical:	12V 240A	
Input Voltage	207V – 253 single phase, 47 – 63Hz	
Input Current	16.0A at 207Vac	
Power Factor	>0.95 at full load	
Efficiency	>86%	
Output Voltage	12.75V @ 120A	
Ripple Voltage	<5% peak – peak (dependant upon load characteristic)	
Output Current	Adjustment available 0 - 240A	
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	16A Fuse x 2 (Recommend fitting of 3 pole 16A 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	0-1Kohm for 0-100% current 	
Under Voltage Limit	Adjustable, 9.5V – 10.0V	
Over Voltage Limit	Adjustable, 11.5V – 12.0V	
Alarm	Low Current alarm – Normally closed volt free contacts	
Stop / Start (Enable)	Closed contact ⇒ Start (Enable) (= logic 0)	
	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 wide x 110.0mm high x 392.4 deep
Finish	Zinc Passivated
Weight	15kg
Input Connection	Terminals – on lower face of unit – Cable Max = 4mmsq
Output Connection	Busbar – on lower face of unit – M10 hole
Control Connection	Terminal block – on lower face of unit – Cable max 1.0mmsq

Layout

