

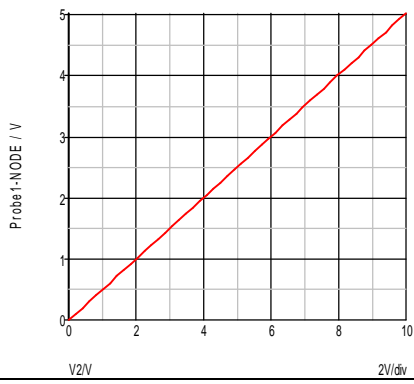
# RITENGA DESIGN LTD

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## SPECIFICATION OF 16V 300A HIGH FREQUENCY POWER SOURCE: Chassis mounted

<b>Electrical:</b>	<b>16V 300A</b>	
Input Voltage	400V, +/-10% - three phase, three wire supply (Public Low Voltage network)	
Input Current	8.9A / phase maximum	
Power Factor	>0.94 at full load	
Efficiency	>90% at full load, with mains at 400Vac	
Output Voltage	16.0 @ 150A	
Ripple Voltage	<5% peak – peak (dependant upon load characteristic)	
Output Current	Adjustment available 0 - 300A	
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 3 (Recommend fitting of 3 pole 10A MCB type B for mains isolation)	
Output Current Protection	Internal electronic control of current limit Short circuit protection	
<b>Indication:</b>	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	
<b>Control Connections:</b>		
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 	
Under Voltage Limit	Not used	
Over Voltage Limit	18V	
Alarm	Low Current alarm – Normally closed volt free contacts	
Stop / Start (Enable)	+5V 10mA ⇒ Start (Enable)	
	All isolated to +/-1kV from DC output	

(cont)

<b>Environment:</b>	
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.
<b>EMC &amp; Safety:</b>	
Conducted & Radiated EMI	EN55011 / EN55022, level B
Safety Approvals	EN61010-1:2001
<b>Mechanical:</b>	
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

