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SPECIFICATION OF 30V, 165 / 330A HIGH FREQUENCY POWER SOURCE: Chassis mounted

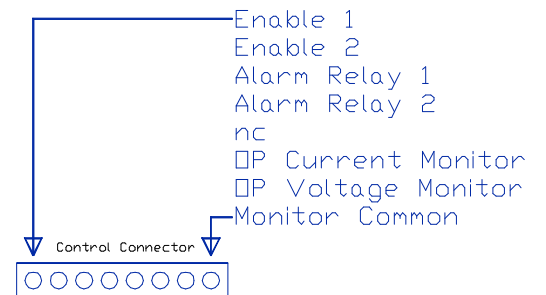
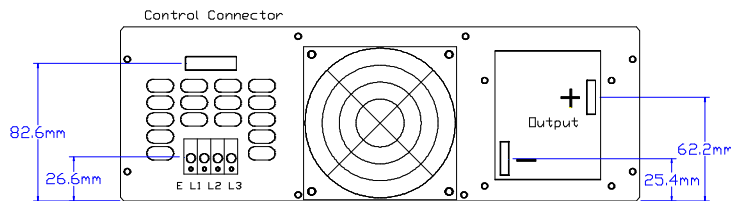
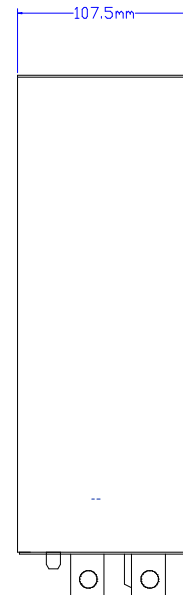
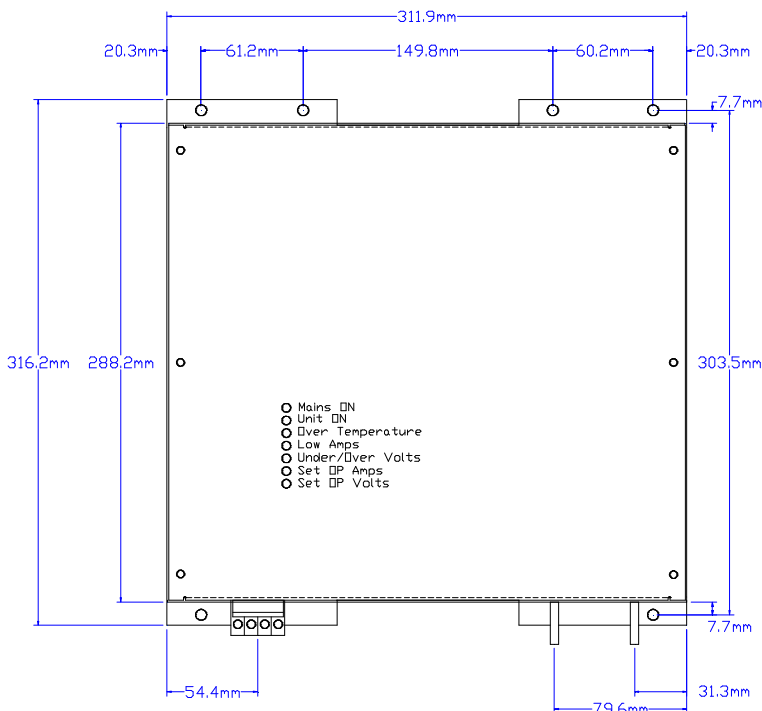
Electrical:	30V 165A	30 330A
Input Voltage	400V, +/-10% - three phase, three wire supply (Public Low Voltage network)	
Input Current	9.4A / phase maximum	18.8A / phase maximum
Power Factor	>0.94 at full load	
Efficiency	>90% at full load, with mains at 400Vac	
Output Voltage	Adjustment available 16V – 32V. Factory set to 30.0V	
Ripple Voltage	<5% peak – peak (dependant upon load characteristic)	
Output Current	Adjustment available 82.5 - 167A Factory set to 165A	Adjustment available 165A – 333A Factory set to 330A
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)	20A Fuse x 3 (Recommend fitting of 3 pole 20A 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) ⇒ 0-30V output voltage Accuracy <=1%	
Current Monitor	0-10V (reference -ve output) ⇒ 0-100% output current Accuracy <=1%	
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	
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.	

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EMC & Safety:		
Conducted & Radiated EMI	EN55011 / EN55022, level B	
Safety Approvals	EN61010-1:2001	
Mechanical:		
Dimensions	311.9mm(w) x 110.0mm(d) x 316.2mm(h)	311.9mm(w) x 211.4mm(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

RDL30V165A



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Layout
RDL30V330A

