



Product Description:

This rugged, industrial quality power converter utilizes field-proven technology to generate the required output power. It is a mature design with a track record in numerous applications. Cooling is by conduction via baseplate. All heat generating components are installed on aluminium heatsink blocks which are thermally connected to the base plate. This also provides exceptional mechanical ruggedness. Additional cooling is achieved by natural convection through cooling slots. Conformal coating provides protection against humidity and airborne contaminants. Full electronic protection, low component count, large design headrooms and the exclusive use of components with established reliability contribute to a high MTBF.

Specifications

Input Voltage	72Vdc nominal (60-90Vdc)
Input Current	10A max
Input Protection	Inrush current limiting Varistor protection Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
Efficiency	>86% at full load
Output Voltage / Current	48Vdc \pm 0.5V/10A Output is floating, either terminal can be grounded
Redundancy Diode	Not installed
Line / Load Regulation	\pm 1% combined from zero load to full load
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time
Output Noise	Better than 80mV _{rms} or 400mV _{pp} (@20MHz BW)
Output Overload Protection	Rectangular current limiting with hiccup-type short-circuit protection. Current Limit set to: 11A \pm 0.8A
Output Overvoltage Protection	Double regulator loop. OVP setting: 54V \pm 2V
Cooling	Conduction via baseplate and natural air convection
Isolation	1000Vdc input to chassis 1500Vdc input to output 700Vdc output to chassis
Operating Temperature Range	0°C to +50°C coldplate temperature
Temperature Drift	0.03% per °C over operating temperature range
Environmental Protection	Ruggedizing Conformal coating
Shock / Vibration	IEC 61373 Cat 1 A&B
Humidity	5-95% non-condensing
MTBF	Min. 150,000 hours @ 45°C Demonstrated MTBF is significantly higher
Indicators	Green "Output ON" LED visible through the cooling slots
Control Input	Not installed
Alarm Outputs	Not installed
Package / Dimensions (WxHxL)	129 x 67 x 351mm, Mounting holes are clear
Weight	2.2 kg
Connections	12 pole barrier-type terminal block with 9.5mm spacing
RoHS Compliance	Compliant

Terminal Block Pin-out

DC OUTPUT				DC INPUT							
+	+	-	-	NOT USED	NOT USED	NOT USED	GND	-	-	+	+
1	2	3	4	5	6	7	8	9	10	11	12