

100 VA STATIC INVERTER



The 100 VA Static Inverter is a commercially flight qualified single-phase AC power inverter with isolation between the input and output. It can accept a wide range of input DC voltage (18.0 to 32.2 VDC) input power due to the front end 28V to 280V converter topology that is then inverted and filtered into 115 VAC Single Phase 400Hz output.



Performance Features

- ◆ Up to 500% overload operation (500 VA)
- ◆ > 80% Electrical Efficiency
- ◆ Power Isolation between Input & Output
- ◆ Built-in-Test
- ◆ Overvoltage, Over-temperature, and Frequency Variation Fault Protection

Physical Characteristics

Weight: 2.08 kg (4.6 lbs.)
Dimensions: 203 mm (8.00") x 171.5 mm (6.75") x 102 mm (4.00")
Material: Aluminum Alloy 6061-T4
Finish: Chem Film per MIL-DTL-5541, Type II CL3

Electrical I/O:

Pin	Description	Pin	Description
A	115 VAC	G	28 VDC Return
B	115 VAC Return	H	Spare
C	28 VDC	J	Warning Output
D	Chassis Ground	K	Warning Output Return
E	Spare	L	28 VDC Return
F	Spare	M	28 VDC

Environmental (DO-160E)

Cooling: Natural Convection & Conduction
Temp/Altitude: -1000 ft to +15,000 ft
-15 °C to +70 °C (Typical Ambient)
-40 °C to +70 °C (Operating Survival)
Vibration: Section 8 R, Curves B & B1
Shock: Section 7, B, A/C, Type 2, Test Type R
Humidity: Section 6 Category A
Waterproofness: Category W (Drip Test)
Sand and Dust: Section 12 Category S
RF Susceptibility: Section 20 Category TT
Voltage Spike: Section 17 Category A
Lightning Transient Susceptibility: Section 22 Category A3G33



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