Aircraft 115 VAC Power Supply
Model M-168

INSTRUMENTATION, INC

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General

The Aircraft Power Supply has three regulated outputs and will operate from 115 VAC 400 Hz aircraft power. All outputs have individual short circuit and over-voltage protection. All outputs are isolated from each other, chassis, and from primary power. Fault indicators are provided on the front panel for all outputs. Output isolation enables the user to configure the power supply for different output combinations such as +12 VDC output with isolated ground, and +5 VDC output with isolated ground.The Power Supply is qualified to meet the EMC requirements of MIL-STD-461C and environmental requirements of MIL-STD-810E. The Power Supply includes EMI and RFI filtering for both input and output.The power supply withstands transient voltages defined by Mil Std 704A.

Specifications:

Primary Power

- *Primary Power: 115 VAC 400Hz, Isolated from output.*
- *Maximum Power: <300 Watts.*
- *Power Switch: Locking Toggle.*
- *Fuse protection.*

Environmental

- *Operating Temperature: -0ºC to +55ºC*
- *Degraded Performance: -25ºC to<0ºC*
- *Non-Operating Temperature: -40ºC to+71ºC*
- *Shock: 10g's for 10-12mS.*
- *Vibration: .01g2/Hz random vibration spectrum from 15 to 2000 Hz. 4-prop tones simulated by spike accelerated .spectral densities centered at F=68Hz, 136Hz, 204 Hz, 272 Hz each.*
- *Cooling: Conducted through aluminum chassis*

EMI

Mil Std 461C -CE03, CE06
CS01,CS02,CS03,CS04,CS05,CS06

Output Voltages

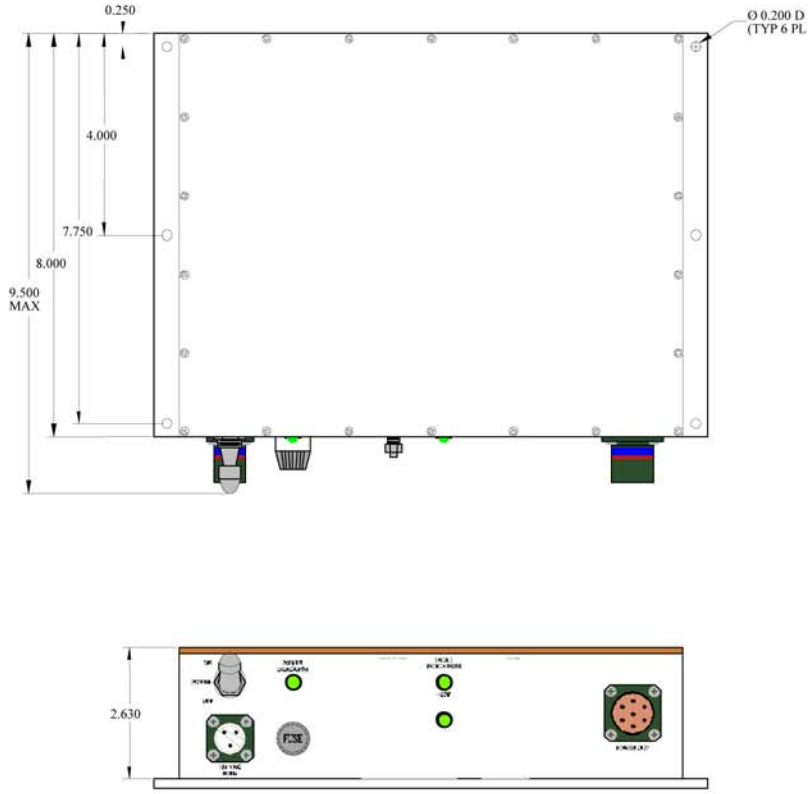
- *+12.0 to 12.5VDC @ 12.5 amps*
- *+5.0 to 5.5VDC @ 20.0 amps*
- *Regulation over Line, Load, and Temperature.*
- *Individual short circuit protection on all outputs at a minimum of 110% of rated output current.*
- *All outputs isolated from each other, prime power, and chassis.*
- *Individual fault indicators for each output illuminate only when output voltages are within specification.*
- *Ripple and noise less than 40mV p-p when measured at connector.*

Mechanical

- *Weight: 7 pounds Max.*
- *Size: Depth 9.50" Max, Width 11.025" Max, Height 2.875" Max.*
- *Mounting: 6 each 0.200 diameter through holes.*

Connector J2 D38999/20-W-C-98-S-N		Connector J1 D38999/20-W-A-98-P-N
Pin	Pin	Description
A	+12VDC	115 VAC Hot
B	+12VDC RTN	115 VAC Neutral
C	+12VDC	Chassis
D	+12VDC RTN	
E	+5VDC	
F	+5VDC RTN	
G	No Connection	
H	No Connection	
J	No Connection	
K	Chassis	

Outline and Mount Drawing



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