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Product Data Sheet
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M164 Power Supply

Aircraft 115 VAC Power Supply Model M-164

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 adjustable and 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 many different output combinations such as dual 23 VDC outputs with isolated or common grounds, ±23 VDC outputs, and + or - 5 VDC output with common or isolated ground. The Power Supply is qualified to meet the EMC requirements of MIL-STD-461C and environmental requirements of MIL-STD-810D. The Power Supply includes EMI and RFI filtering for both input and output.

Primary Power

- **Primary Power: 115 VAC 400Hz, Isolated from output.**
- **Maximum Current: 2 Amps.**
- **Power Switch: Locking Toggle.**
- **Fuse protection.**

Output Voltages

- **+ 23.0 VDC ±3% @ 3.0 amps Adjustable +23 to +26 VDC**
- **- 23.0 VDC ±3% @ 2.0 amps Adjustable –23 to –25 VDC**
- **+5.0 VDC ±1% @ 2.0 amps Adjustable +5 to +5.5VDC**
- **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.**
- **Test points and pots available on front panel for adjustment of output voltages.**
- **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.**

Environmental

- **Operating Temperature: -0°C to +55°C**
- **Degraded Performance: -25°C to <0°C**
- **Non-Operating Temperature: -40°C to +71°C**
- **Shock: 10g's for 11mS.**
- **Vibration: Meets the requirements of MIL-STD-810E, Method 514.4, using curve shown in Figure 514.4-7A, with F1=68Hz and L1=0.3g2 per Hz**
- **Cooling: Conducted through aluminum chassis**

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 J1 D38999/20-W-A-98-P-N

Pin	Function	Pin	Function
A	115 VAC Hot	B	115 VAC Neutral
C	Chassis		

Connector J2 D38999/20-W-C-98-S-N

Pin	Function	Pin	Function
A	23 VDC	F	5 VDC RTN
B	23 VDC RTN	G	NO CONNECTION
C	-23 VDC	H	NO CONNECTION
D	-23 VDC RTN	J	NO CONNECTION
E	5 VDC	K	Chassis

M-164 OUTLINE & MOUNTING