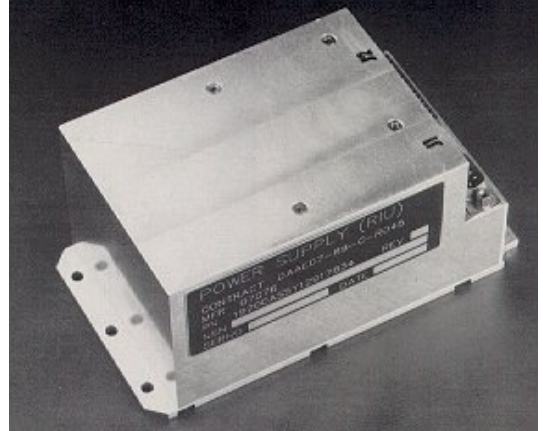


Low Voltage 44 Watt DC/DC Power Supply Catalog 71162-02 Series

Features

- Nuclear Hardened
- Nuclear Event Detector
- Nuclear Circumvention Circuitry
- Discharges Output in 20 μ Sec
- 18 - 32 VDC Input
- Temperature Warning Indicator
- Input Power Monitor Signal
- System Reset Signal



Specifications

Electrical

DC OUTPUT				
Voltage	Current Amps	Regulation Line, Load & Temp	Ripple & Noise mVp-p	Holdup Time μ s
+ 5.07	8.0	$\pm 2\%$	100	15
+15.00	0.1	$\pm 2\%$	150	10
-15.00	0.1	$\pm 2\%$	150	10

OVERVOLTAGE PROTECTION:

30% \pm 10% all outputs

OVERCURRENT PROTECTION:

All outputs, automatic recover

TEMPERATURE MONITOR:

Temperature: -29°C to +71°C

Monitor: 2 digital outputs

START-UP TIME:

150 mSec

OUTPUT RIPPLE FREQUENCY:

100 kHz \pm 15%

NUCLEAR EVENT DETECTOR:

Provides circumvention for rapid power down

DC INPUT:

18 to 30 VDC

INPUT TRANSIENT PROTECTION:

9 to 40V, continuous, no damage

100 V for 1 mSec

50 V for 50 mSec

MINIMUM EFFICIENCY:

66% 18 to 30 VDC FL

ISOLATION:

100 V between input and output
50 v between input and case
50 v between output and case

INPUT EMI :

(Per MIL-STD-461C Part 4)
CE03, CS02, CS06, RE02, RS03

RELIABILITY: (Per MIL-HDBK-217E)

Hours	Condition	Base Plate Temp
50,000	GM	85°C

Mechanical

Weight:..... 2.75 lbs
Dim:..... 3.35" x 2.68" x 5.62"
Cooling:..... Baseplate Conduction
Termination:..... MIL-C-24308B
Encapsulation:..... Conformal Coat
Elect. Parts:
IC's..... MIL-STD-883 or equiv
Transistors..... JANTX or equiv
Diodes..... JANTX or equiv
Capacitors..... ER level "P" or equiv
Resistors..... ER level "P" or equiv
PC Boards..... MIL-P-55110

Environmental

OPERATING TEMPERATURE:

-29°C to +71°C baseplate

VIBRATION:

1.0g-p, 40-200Hz

SHOCK:

50g, 8 mSec

FUNGUS:

MIL-F-13927, Class 1, Med B

HUMIDITY:

100%

ELEVATION: 15,000 feet