



TRI-MAG, Inc.

® *your* POWER Specialists

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Power Supply for Aircraft Application

KD121PF-28AV 56 Watts

MEETS RTCA/DO160C



DESCRIPTION

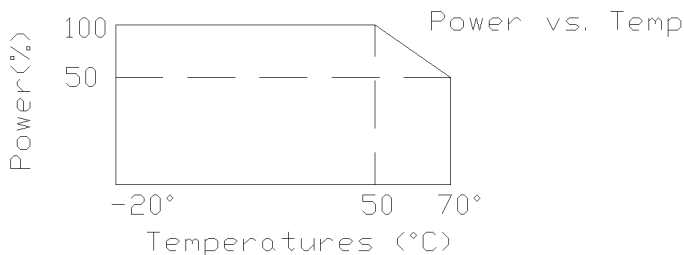
Designed to meet RTCA/DO160C AC input power factor correction. All the heat generating semiconductor components are mounted on the base of the power supply housing.

FEATURES

- EMI FCC Class B
- Power Factor Correction
- No Minimum Load Required
- Multiple Output
- Universal input 90VAC to 260VAC

APPLICATIONS

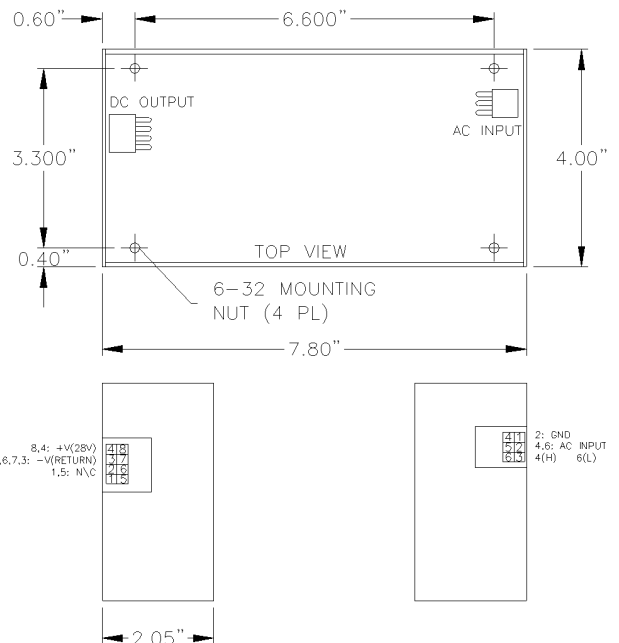
- Computer Peripherals
- Telecommunications
- Aircraft Application
- Test Instrumentation Product
- Data Acquisition
- Medical



GENERAL SPECIFICATIONS

Input Voltage..... 97VAC to 134VAC
 Input Frequency..... 50Hz to 440Hz
 Meets RTCA/DO160 SEC. 16, normal and abnormal surge voltages and SEC. 17 voltage spikes.
 Operating Temperature..... 0 to 65°C
 Storage Temperature..... -40°C to 90°C
 Cooling..... Free Air Convection
 Efficiency.....73% Typical
 Holdup Time.....>20ms at 115VAC
 Overvoltage Type..... Crowbar
 Overload Protection..... Foldback
 Within 150% rated load
 Power Factor.....0.98 Typical
 Switching Frequency..... >200KHz
 Safety:
 Designed in full compliance with..... UL 1950
 CSA 22.2 #234
 VDE EN60950
 EMI.....EN55022 "B"
 FCC docket class "B"
 EN61000-3-2

MECHANICAL SPECIFICATIONS





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OUTPUT SPECIFICATIONS

Model	Watts	Voltage (Vdc)	Load (A)			Tolerance ±	Ripple & Noise	Regulation	
			Min.	Rate	Peak			Line	Load
AD121PF-28AV	56	+28V	0	2	3.5	0.5%	1%P-P	±0.1%	0.2%

Note: Contact factory for Safety Agency Approved status.

1. Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
5. The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47µF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to 95% output voltage at rated load and nominal line.
7. Efficiency is measured at rated load.