

PI-500 Power Inverter

Cobham Avionics

COBHAM

The most important thing we build is trust



- Designed specifically for aviation applications
- Reliably powers portable electronics, appliances and medical equipment
- Superior performance under extreme conditions
- Product in-stock reducing lead times

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PI-500 Power Inverter

Technical Specifications

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Designed Specifically for Aviation

The Cobham Avionics PI-500 Static Power Inverter is specifically designed and certified for aviation applications. Utilizing the newest circuitry, the PI-500 operates with 28VDC input and a 60HZ 115VAC output. The PI-500 is a DC to AC Power Supply rated at a continuous 500W, meeting all 115VAC requirements on board turbo-props, business jets and helicopters.

Highly Reliable and Efficient

The PI-500 is a highly reliable inverter with exceptional protection and quick recovery times to meet the power demand of any device from MP3s to medical equipment. Control circuits ensure the output power is well regulated for voltage, current and frequency. In addition, special circuits monitor the temperature and input voltage to insure the PI-500 provides output power under a wide range of environmental conditions.

Cobham Avionics Quality Assurance

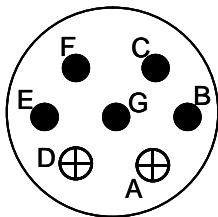
Designed under strict Cobham Avionics quality standards, the PI-500 reliably powers laptop computers, portable electronics (MP3, DVD, video games, etc.), audio and video equipment, coffee makers, and medical equipment in airborne and ground applications.

Technical Specifications

Connection

Mating Connector: Amphenol 97-3106A18-9S, or Equivalent

Pin	Signal	Wire Size
A	+28VDC In	#12 AWG
B	115VAC, Hot	#16 AWG
C	AC Return	#16 AWG
D	DC Ground (Chassis)	#12 AWG
E	Remote On/Off	#20 AWG
F	Not Used --	
G	Remote On/Off Return	#20 AWG



Connector Pinout

Environmental

Humidity: 95% for 240 hours
Altitude: 55,000 feet
Operating: -55°C to +71°C
Storage: -55°C to +85°C
RF Emissions: RTCA DO-160F
Shock - Operational: 6G
Shock - Crash: 20G

Physical

Dimensions: 9.5"L x 6.34"W x 3.38"H
Weight: 4.9lbs

Reliability

Fixed Wing MTBF: 6100 hrs
(Airborne Uninhabited Cargo)
Fixed Wing MTBF: 9900 hrs
(Airborne Inhabited Cargo)
Helicopter MTBF: 4100 hrs

Functional

Voltage Requirements: +28VDC Nominal (+20VDC to +36.5VDC)
Voltage Output: 115VAC +/- 2% at 60Hz +/- Single Phase
Power Output Operating: 500W Nominal, 530W Maximum
Power Output Ratings: 110% for 2 hours, 150% for 5 min.
Efficiency: 85% at 28VDC with 530W Output Power
Short Circuit: 11 Amp with <1msec Response Time
Total Harmonic Distortion: <5%

Tested to

TSO-C73
RTCA DO-160F

For further information please contact:

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