

TRUE BLUE POWER®

A division of Mid-Continent Instrument Co., Inc.

250VA DC-to-AC Inverter

TI250 Series

Manufactured by Mid-Continent Instrument Co., Inc.

The TI250 Series Inverters supply 250 watts of power to instruments, avionics, and multiple cabin accessories, including laptops, tablets and cell phones.



TI250

The highly efficient TI250 Series DC-to-AC Inverters produce 250 watts of power from an aircraft's 28 VDC input. Engineered to run cooler and featuring a fanless design, the TI250 Series saves energy and reduces weight. These inverters are lighter and smaller than competing units and include overload, short-circuit and ground fault interrupter protection.

The primary stage of the TI250 Series utilizes current mode control for increased reliability and safety, similar to most military design requirements.

Product features

OUTPUT POWER	250 VA
INPUT VOLTAGE	20 – 36 VDC
OUTPUT VOLTAGE	TI250 115 VAC ± 3% TI254 115 VAC ± 3% TI256 115/26 VAC ± 3%
OUTPUT FREQUENCY	TI250 60 Hz TI254 400 Hz TI256 400 Hz
EFFICIENCY	87 – 90%
REMOTE CONTROL	Remote On/Off
OVERLOAD AND SHORT-CIRCUIT PROTECTION	Input transient, overload, short-circuit protection (up to 150% of rated load without damage) and GFI (ground fault interrupter) protection
DESIGNED AND MANUFACTURED	Wichita, Kansas, USA
WARRANTY	Two-year limited

Kansas

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California

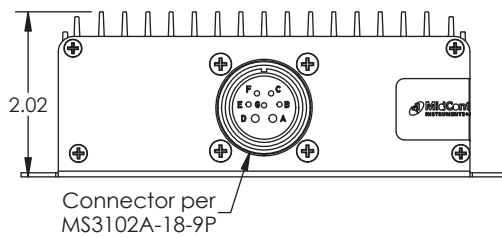
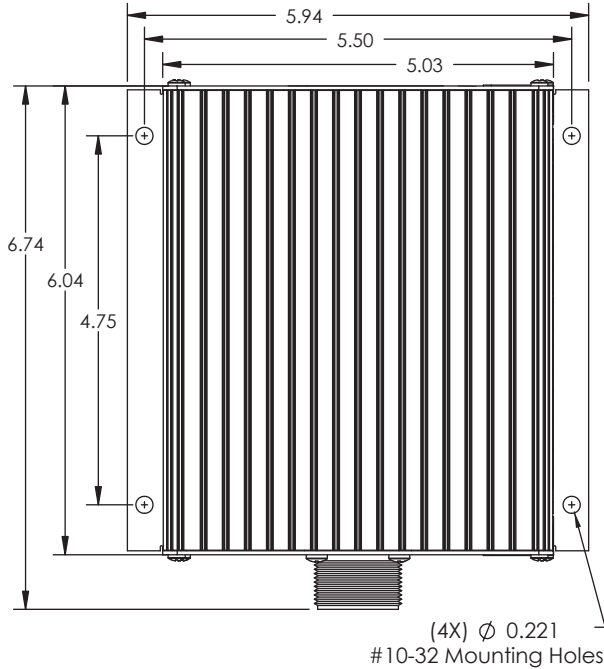
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Technical specifications

INPUT VOLTAGE	20 – 36 VDC
INPUT CURRENT	10A at 28 VDC input
OUTPUT VOLTAGE	TI250 115 VAC \pm 3% TI254 115 VAC \pm 3% TI256 115/26 VAC \pm 3%
OUTPUT POWER	250 VA
OUTPUT FREQUENCY	TI250 60 Hz \pm 0.1% TI254 400 Hz \pm 0.1% TI256 400 Hz \pm 0.1%
OUTPUT WAVEFORM	Single phase, true sine wave, < 3% total harmonic distortion
POWER CONVERSION METHOD	Current mode control
WEIGHT	TI250 2.2 lbs TI254 2.2 lbs TI256 2.6 lbs
ALTITUDE	70,000 ft
HUMIDITY	Tested to greater than 95% for 10 days, temperature cycle of 100°F to 150°F
TEMPERATURE	-65°F to +160°F (-55°C to +70°C)
MATING CONNECTOR	MS3106A-18-9S (MCI P/N 9016905-1, -2)
CASE	Anodized aluminum extrusion, blue
CERTIFICATION	FAA TSO-C73 certified RTCA DO-160G qualified

AC Outlet Option

Part Number	Compatibility	Current Rating	Weight	Dimensions	Connector	Case
9018708-1	North American	15 amps	0.3 lbs (0.14 kgs)	1.75" W x 1.75" H x 1.7" D	Mate-N-Lok	Aluminum
9018708-2	Universal	14 amps	0.49 lbs (0.22 kgs)	2.30" W x 2.30" H x 1.94" D	Mate-N-Lok	Aluminum
9018708-3	North American	15 amps	0.3 lbs (0.14 kgs)	1.75" W x 1.75" H x 1.7" D	None	Aluminum
9018708-4	Universal	14 amps	0.49 lbs (0.22 kgs)	2.30" W x 2.30" H x 1.94" D	None	Aluminum