

# TRUE BLUE POWER®

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

## 500VA DC-to-AC Inverter

### TI500

Manufactured by Mid-Continent Instrument Co., Inc.

The TI500 supplies 500 watts of power to multiple cabin accessories, such as laptops, cell phones and MP3 players.



The TI500 DC-to-AC Inverter produces 115 volts at 60 Hz for 500 watts of “wall outlet” power from an aircraft’s 28 VDC input. Lighter and 30% smaller than competing inverters, the TI500 has the same connector and footprint of legacy designs, plus overload and short-circuit protection up to 150% of the rated load.

#### Product features

OUTPUT POWER	500 VA
INPUT VOLTAGE	20 – 36 VDC
OUTPUT VOLTAGE	115 VAC $\pm$ 3%
EFFICIENCY	85 – 90%
REMOTE CONTROL	Remote On/Off
OVERLOAD AND SHORT-CIRCUIT PROTECTION	Input transient, overload and short-circuit protection (up to 150% of rated load without damage)
DESIGNED AND MANUFACTURED	Wichita, Kansas, USA
WARRANTY	Two-year limited

#### Kansas

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Wichita, Kansas 67226 USA  
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tbp@mcico.com

#### California

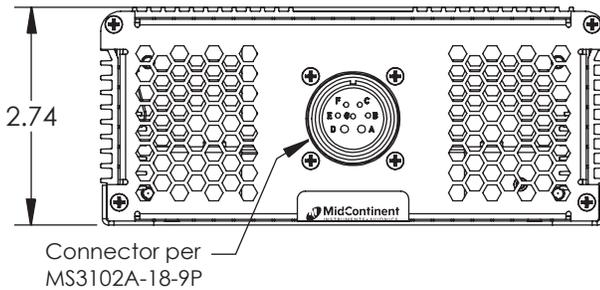
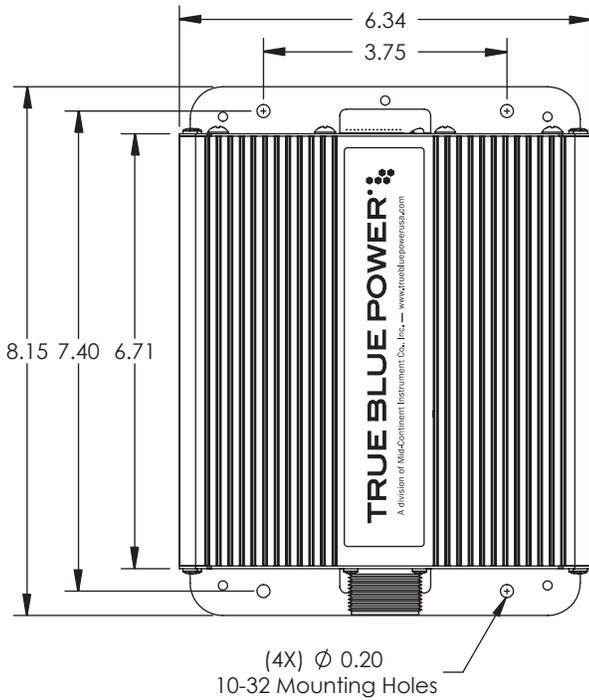
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[truebluepowerusa.com](http://truebluepowerusa.com)

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## TI500

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### Technical specifications

INPUT VOLTAGE	20 – 36 VDC
INPUT CURRENT	20A at 28 VDC input
OUTPUT VOLTAGE	115 VAC ± 3%
OUTPUT POWER	500 VA
OUTPUT FREQUENCY	60 Hz ± 0.1%
OUTPUT WAVEFORM	Single phase, true sine wave, < 3% total harmonic distortion
WEIGHT	3.9 lbs
ALTITUDE	55,000 ft
HUMIDITY	Tested to greater than 95% for 10 days, temperature cycle of 75° F to 160° F
TEMPERATURE	-65° F to +160° F (-55° C to +71° C)
INTEGRAL COOLING	Dual, electronically-controlled brushless fans
MATING CONNECTOR	MS3106A-18-9S (MCI P/N 9016905-1, -2)
CASE	Anodized aluminum extrusion, blue
CERTIFICATION	FAA TSO-C73 certified RTCA DO-160F 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 1.70" 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 1.70" 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