

# TRUE BLUE POWER®



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

## Advanced Lithium-ion Battery

### TB28-12V

Manufactured by Mid-Continent Instrument Co., Inc.



TB28-12V

## Designed specifically for 14-VOLT AIRCRAFT

Save time and money with longer battery life and no required capacity checks. The TB28-12V lasts 8 years and offers on-condition maintenance.

Its sophisticated design provides cooler, faster engine starts and superior performance in extreme temperatures (-20°C to +70°C). This intelligent lithium-ion battery features built-in charge current limiting to protect your aircraft's alternator or generator without needing to install additional equipment. It delivers cockpit communication via RS-232, analog and discrete signals.

### Product features

CAPACITY	26 amp-hour nominal at 23°C/73.4°F
WEIGHT	6430014-1 10.0 lbs. (4.54 kg) 6430014-11 12.2 lbs. (5.53 kg)
TECHNOLOGY	Advanced iron phosphate lithium-ion cell chemistry
EFFICIENCY	Higher voltage during engine start — Less wear, less maintenance and increased useful life
PERFORMANCE	50 minutes (at 35 amps average) for complete recharge when the battery is fully discharged  Superior high-temperature and cold-weather performance from -20°C to +70°C (-4°F to +158°F)
ENERGY DENSITY	More than 2 amp-hours per pound
PROTECTION	Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting
COMMUNICATION	RS-232, Analog, Discrete
MAINTENANCE	On-condition
DESIGNED AND MANUFACTURED	Wichita, Kansas, USA
WARRANTY	Two-year limited

#### Kansas

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#### California

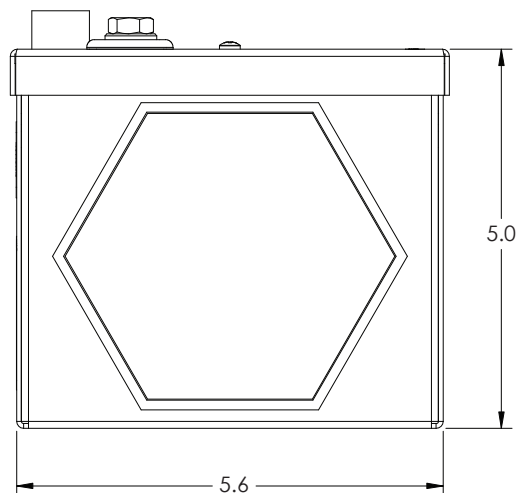
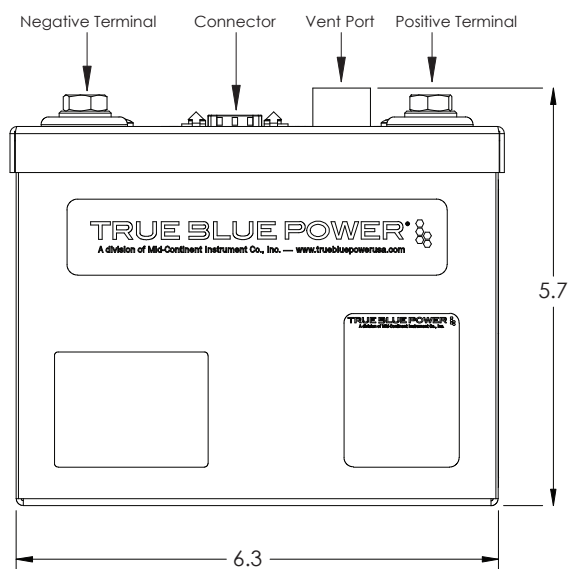
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## TB28-12V

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### Technical specifications

CAPACITY	26 amp-hour nominal at 23°C/73.4°F
CHARGE VOLTAGE	14.4 VDC nominal
OUTPUT VOLTAGE	13.2 VDC nominal
OUTPUT CURRENT	200A continuous, 850A max
TECHNOLOGY	Advanced iron phosphate lithium-ion cell chemistry
PROTECTION	Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting
ENERGY DENSITY	76 Wh/kg 121 Wh/liter
OPERATING TEMPERATURE	-20°C to 70°C (-4°F to 158°F)
WEIGHT	6430014-1 10.0 lbs. (4.54 kg) 6430014-11 12.2 lbs. (5.53 kg)
DIMENSIONS	6.3" L x 5.6" W x 5.0" H
CONFIGURATION	4P4S; 4 parallel cells x 4 series cells
LIFE EXPECTANCY	8 years (average)
MAINTENANCE	On-condition
CASE	6430014-1 Anodized aluminum, blue 6430014-11 Stainless steel
CERTIFICATION	FAA TSO C179b (Class A-4B) RTCA DO-311A RTCA DO-160G RTCA DO-178C DAL A UNDOT/IATA

### Product comparison

	Battery Technology	Voltage Output	Capacity (1C rate)	Weight	Maintenance	Useful Life
TB28-12V	Lithium-ion (6430014-1)	13.2 VDC	26 amp-hour	10 lbs.	On-condition	8 years (average)
	Lead-acid	12 VDC	24 amp-hour	23.5 lbs.	Annual	2 – 4 years