

TRUE BLUE POWER®

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



Advanced Lithium-ion Battery

TB20, TB30, TB40

Manufactured by Mid-Continent Instrument Co., Inc.



TB20, TB30, TB40

The TB20, TB30 and TB40 lithium-ion aircraft batteries offer on-condition maintenance and are configured to meet the needs of each specific aircraft. This includes charge current limit, end-of-life capacity, minimum dispatch capacity and engine-start readiness.

The intelligent battery systems communicate accurate and reliable real-time, state-of-charge and state-of-health data.

The TB20, TB30 and TB40 weigh up to 60% less than lead-acid and NiCad solutions, and deliver more amp-hours per pound than any other battery. This translates into more power for engine starts, more energy for emergency and back-up power, ultra-fast recharge and much longer life.

Product features

CAPACITY	TB20 20 amp-hour nominal at 23°C/73.4°F TB30 30 amp-hour nominal at 23°C/73.4°F TB40 40 amp-hour nominal at 23°C/73.4°F
WEIGHT	TB20 20.0 lbs. TB30 28.5 lbs. TB40 38.5 lbs.
TECHNOLOGY	Advanced NanoPhosphate® lithium-ion cell chemistry
EFFICIENCY	Higher voltage during engine start — Less wear, less maintenance and increased useful life
PERFORMANCE	Superior high-temperature and cold-weather performance from -40°C to +70°C (-40°F to +158°F)
ENERGY DENSITY	More than 1 amp-hour per pound
INTERNAL HEATER	Automatic internal heater
PROTECTION	Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting
COMMUNICATION	ARINC 429, Analog, Discrete Built-in Test (BIT) Indicator communicates real-time state-of-charge and state-of-health
MAINTENANCE	On-condition
DESIGNED AND MANUFACTURED	Wichita, Kansas, USA
WARRANTY	Two-year limited

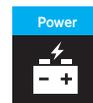
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The NanoPhosphate® Advantage



Superior power by weight or volume in a cost effective solution



NanoPhosphate® is stable chemically, providing the foundation for safe systems



Excellent calendar and cycle life with consistent performance over extended use



Higher useable energy means greater battery utilization and lower cost

truebluepowerusa.com

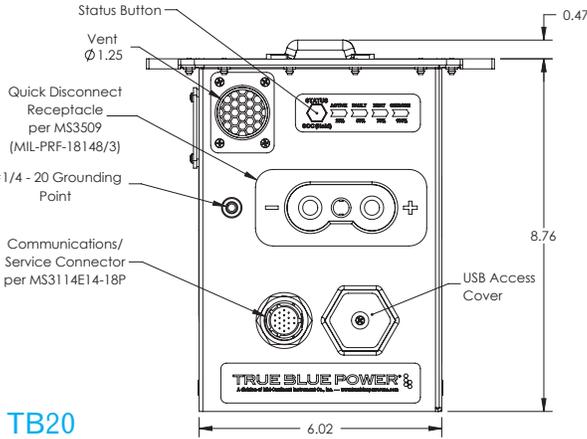
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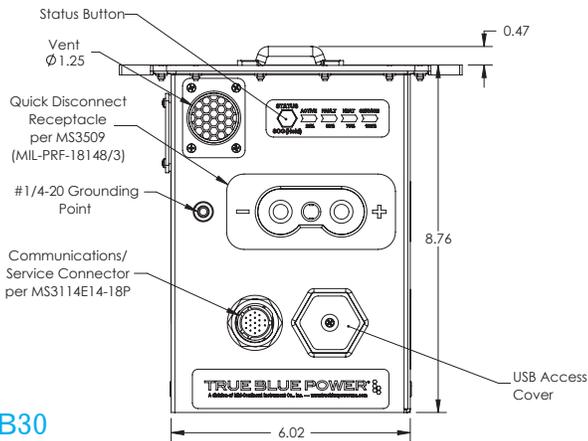
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Technical specifications

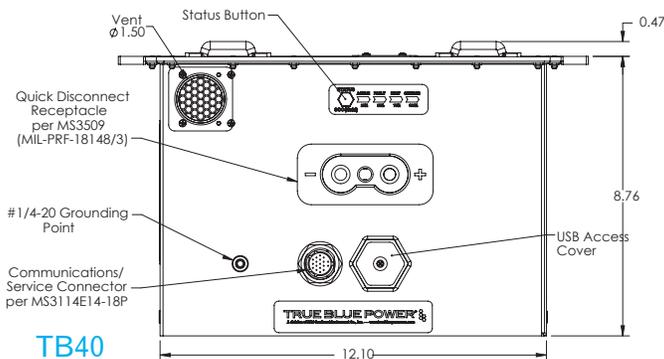
CHARGE VOLTAGE	28 VDC nominal
OUTPUT VOLTAGE	26.4 VDC nominal
OUTPUT CURRENT	TB20 560A continuous, 960A max TB30 840A continuous, 1440A max TB40 1120A continuous, 1500A max
TECHNOLOGY	Advanced NanoPhosphate® lithium-ion cell chemistry
ENERGY DENSITY	TB20 58.2 Wh/Kg TB30 61.3 Wh/Kg TB40 60.5 Wh/Kg
CHARGE CURRENT LIMITING	Programmable up to 4C or 10C unlimited
OPERATING TEMPERATURE	-40°C to +70°C (-40°F to +158°F)
WEIGHT	TB20 20.0 lbs. (9.1 kg) TB30 28.5 lbs. (12.9 kg) TB40 38.5 lbs. (17.5 kg)
DIMENSIONS	TB20 9.1" L x 8.6" W x 8.8" H TB30 12.5" L x 8.6" W x 8.8" H TB40 9.1" L x 14.7" W x 8.8" H
CONFIGURATION	TB20 8P8S; 4 parallel x 8 in series x 2 TB30 12P8S; 4 parallel x 8 in series x 3 TB40 16P8S; 4 parallel x 8 in series x 4
LIFE EXPECTANCY	8 years (average)
MAINTENANCE	On-condition
CASE	Anodized aluminum, blue
CERTIFICATION	FAA TSO-C179b (pending) RTCA DO-311A (pending) RTCA DO-160G (pending) RTCA DO-178C DAL A (pending) UNDOT/IATA (pending)



TB20



TB30



TB40