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RUE BLUE POWE

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

Advanced Lithium-ion Battery

TB17





The TB17 Advanced Lithium-ion Battery uses the most sophisticated lithium-ion chemistry available. providing aviators with an unmatched advantage of power, safety, life and energy.

Ideal for the piston, turbine, and emergency power market, the TB17 starts the aircraft's engine quickly and features superior energy density - Nanophosphate® lithium-ion cells offer 3x the energy per kilogram, resulting in a battery that is 45% lighter than lead-acid or nickel-cadmium alternatives.

This advanced battery system is engineered to deliver an overall lower cost of ownership with a 2-year maintenance schedule, efficient engine starts, extended useful life and intelligent battery status communication to the cockpit.

Manufactured by Mid-Continent Instrument Co., Inc.

Product features

CAPACITY 17 amp-hour battery nominal at 23°C/73.4°F 15.6 lbs. WEIGHT TECHNOLOGY Advanced Nanophosphate[®] lithium-ion cell chemistry from A123 Systems, LLC EFFICIENCY PERFORMANCE discharged ENERGY DENSITY **INTERNAL HEATER** PROTECTION COMMUNICATION MAINTENANCE DESIGNED AND MANUFACTURED WARRANTY

Higher voltage during engine start — Less wear, less maintenance and increased useful life 7 engine starts in 7 minutes 30 minutes (at 34 amps) for complete recharge when the battery is fully

Superior performance at higher temperatures (up to 50°C/122°F)

A123 battery cells deliver 3x the energy per kilogram when compared to lead-acid and nickel-cadmium cells

Automatic internal heater

Overcharge, over-discharge, over-current, short circuit, over-temperature, undertemperature and charge current limiting

Battery status to the cockpit

2-year maintenance interval; offers 50 – 90% savings on maintenance costs

Wichita, Kansas, USA

2-year limited

truebluepowerusa.com

The Nanophosphate® Advantage









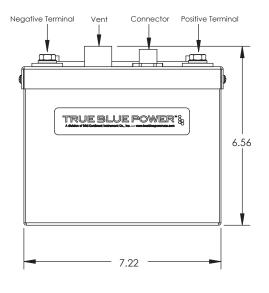


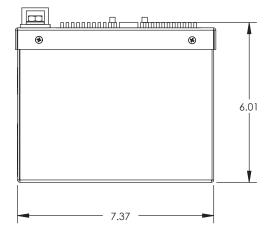
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Technical specifications

CAPACITY	17 amp-hour battery nominal at 23°C/73.4°F		
CHARGE VOLTAGE	28 VDC nominal		
OUTPUT VOLTAGE	26.4 VDC nominal		
OUTPUT CURRENT	240A continuous, 840A max		
TECHNOLOGY	Advanced Nanophosphate® lithium-ion cell chemistry from A123 Systems, LLC		
PROTECTION	Overcharge, over-discharge, over-current, short circuit, over-temperature, under- temperature and charge current limiting		
ENERGY DENSITY	66.0 Wh/kg 87.1 Wh/liter		
OPERATING TEMPERATURE	-40°C to 50°C (-40°F to 122°F)		
WEIGHT	15.6 lbs		
DIMENSIONS	7.22" L x 7.37" W x 6.01" H		
CONFIGURATION	7P8 S ; 7 parallel cells x 8 series modules		
MAINTENANCE	2-year maintenance interval; offers 50 – 90% savings on maintenance costs		
CASE	Anodized aluminum, blue		
CERTIFICATION	FAA TSO certified to C179a ETSO certified to C179a RTCA DO-311 qualified RTCA DO-160G qualified UNDOT/IATA certified		

Product comparison

	Battery Technology	Voltage Output	Capacity (1C rate)	Weight	Maintenance	Useful Life
TB 17	Lithium-ion	26.4 VDC	17 amp-hour	15.6 lbs.	2 years	6 – 10 years
	Lead-acid	24 VDC	13.6 amp-hour	29.5 lbs.	Annual	2 – 4 years
	Nickel-cadmium	24 VDC	17 amp-hour	38.5 lbs.	200 – 400 hours	5 – 10 years