

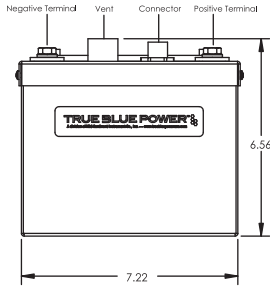
TRUE BLUE POWER®



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

TX16 Lithium-ion Battery

Manufactured by Mid-Continent Instrument Co., Inc.



A lithium-ion battery exclusively offered for experimental aircraft.

The TX16 is designed with the same architecture as certified True Blue Power® battery products and offers the experimental market a safe and reliable lithium-ion battery.

Specifications

CAPACITY	16 amp-hour battery nominal at 23°C/73.4°F
WEIGHT	15.6 lbs (45% lighter than lead-acid or nickel-cadmium alternatives)
TECHNOLOGY	Advanced NanoPhosphate® lithium-ion cell chemistry
CHARGE VOLTAGE	28 VDC nominal
OUTPUT VOLTAGE	26.4 VDC nominal
OUTPUT CURRENT	240A continuous, 840A max
ENERGY DENSITY	Battery cells deliver 3x the energy per kilogram when compared to lead-acid and nickel-cadmium cells
OPERATING TEMPERATURE	-40°C to 50°C (-40°F to 122°F)
ALTITUDE	55,000 ft
DIMENSIONS	7.22" L x 7.37" W x 6.01" H
MAINTENANCE	2-year maintenance interval; offers 50 – 90% savings on maintenance costs
SAFETY	Rapid recharge and multiple levels of redundancy
PROTECTIONS	Overcharge, over-discharge, over-current, short circuit, over-temperature Under-temperature protection with automatic built-in heater and over-temperature protection monitor circuit
ENVIRONMENTALLY FRIENDLY	No special disposal requirements
WARRANTY	18-month limited

Product comparison

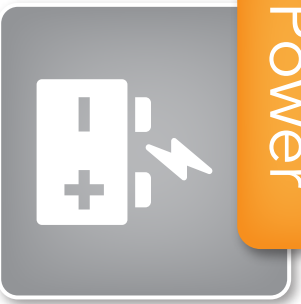
	Battery Technology	Voltage Output	Capacity (1C rate)	Weight	Maintenance	Useful Life
TX16	Lithium-ion	26.4 VDC	16 amp-hour	15.6 lbs.	2 years	8 – 10 years
	Lead-acid	24 VDC	13.6 amp-hour	29.5 lbs.	Annual	2 – 4 years
	Nickel-cadmium	24 VDC	17 amp-hour	38.5 lbs.	200 – 400 hours	5 – 10 years

Game-changing Technology

The NanoPhosphate[®] Advantage



Power



Superior power by weight or volume in a cost effective solution

- + Fast charge capable
- + Enables smaller, lighter battery pack
- + Consistent power over wide state of charge (SOC) range for greater pack utilization

Safety



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

- + Superior safety and abuse tolerance compared to metal oxide lithium ion chemistries
- + Independently validated by National Labs and multiple customers
- + Multiple layers of protection at the chemistry, cell and system level mitigates risk

Life



Excellent calendar and cycle life with consistent performance over extended use

- + NanoPhosphate[®] technology retains performance enabling less pack oversizing
- + At low rates our cells can deliver thousands of cycles at 100% depth of discharge
- + Energy and power capability retained over extended life
- + High rate and deep cycling capabilities mean greater battery utilization

Energy



Higher useable energy means greater battery utilization and lower cost

- + Deeper cycling and a wider usable SOC range means higher usable energy; more of the battery's energy can actually be utilized in the application
- + High usable energy enables less pack oversizing for superior price-performance

Superior Performance + Greater Battery Utilization = Price-Performance + Lower TCO