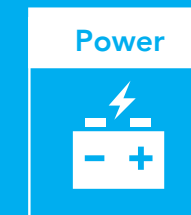


	TB17	TB20	TB30	TB40	TB44
CAPACITY	17 amp-hour nominal at 23°C/73.4°F	20 amp-hour nominal at 23°C/73.4°F	30 amp-hour nominal at 23°C/73.4°F	40 amp-hour nominal at 23°C/73.4°F	46 amp-hour nominal at 23°C/73.4°F
WEIGHT	16 lbs. (7.26 kg)	20 lbs. (9.1 kg)	28.5 lbs. (12.9 kg)	38.5 lbs. (17.5 kg)	51.7 lbs. (23.45 kg)
CHARGE VOLTAGE	28 VDC nominal	28 VDC nominal		28 VDC nominal	
OUTPUT VOLTAGE	26.4 VDC nominal	26.4 VDC nominal		26.4 VDC nominal	
OUTPUT CURRENT	500A continuous, 840A max	560A continuous, 960A max	840A continuous, 1440A max	1,120A continuous, 1500A max	750A continuous, 1500A max
RECHARGE TIME	30 minutes for complete recharge when the battery is fully discharged	Configurable Charge Current Limiting; 15 minutes for full recharge when configured for maximum charge current		Configurable Charge Current Limiting; 15 minutes for full recharge when configured for maximum charge current	15 minutes for complete recharge when the battery is fully discharged on a typical aircraft
DIMENSIONS	7.2" L x 7.4" W x 6.0" H	9.1" L x 8.6" W x 8.8" H	12.5" L x 8.6" W x 8.8" H	9.1" L x 14.7" W x 8.8" H	10.9" L x 10.5" W x 10.1" H
PROTECTION	Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting	Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting		Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting	Overcharge, over-discharge, over-current, short circuit, over-temperature and under-temperature
TECHNOLOGY	Advanced NanoPhosphate® lithium-ion cell chemistry	Advanced NanoPhosphate® lithium-ion cell chemistry		Advanced NanoPhosphate® lithium-ion cell chemistry	
USEFUL LIFE	8 years (average)	8 years (average)		8 years (average)	
COMMUNICATION	Battery status to the cockpit	Built-in Test (BIT) Indicator		Built-in Test (BIT) Indicator	ARINC 429 data to the cockpit
MAINTENANCE	Two-year maintenance intervals	On-condition Service indication via discrete output, LED indication and ARINC 429		On-condition Service indication via discrete output, LED indication and ARINC 429	Two-year maintenance intervals
OPERATING TEMPERATURE	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)		-40°C to 70°C (-40°F to 158°F)	
CONFIGURATION	7P8S; 7 parallel x 8 in series	8P8S; 4 parallel x 8 in series x 2	12P8S; 4 parallel x 8 in series x 3	16P8S; 4 parallel x 8 in series x 4	8S19P; 1 parallel x 8 in series x 19
CASE	Anodized aluminum, blue	Anodized aluminum, blue		Anodized aluminum, blue	Powder-coated steel, blue
CONNECTION	Terminals, Cannon plugs for communications	MS3509 Quick disconnect, Power Mil Circular for communications		MS3509 Quick disconnect, Power Mil Circular for communications	Quick disconnect, Cannon plugs for communications
VENT KIT	Available	Available		Available	
CERTIFICATION	FAA TSO certified to C179a ETSO certified to C179a RTCA DO-311 qualified RTCA DO-160G qualified UNDOT/IATA qualified	FAA TSO-C179b (pending) RTCA DO-311A (pending) RTCA DO-160G (pending) RTCA DO-178C DAL A (pending) UNDOT/IATA (pending)		FAA TSO-C179b (pending) RTCA DO-311A (pending) RTCA DO-160G (pending) RTCA DO-178C DAL A (pending) UNDOT/IATA (pending)	FAA TSO certified to C179a ETSO certified to C179a RTCA DO-311 qualified RTCA DO-160G qualified UNDOT/IATA qualified
WARRANTY	Two-year limited	Two-year limited		Two-year limited	

The NanoPhosphate® Lithium-ion Advantage

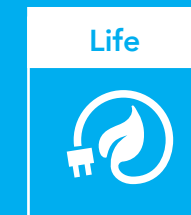
Game-changing Technology



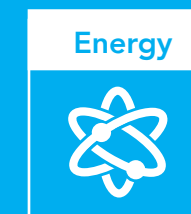
Power
Superior power by weight or volume in a cost effective solution



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



Life
Excellent calendar and cycle life with consistent performance over extended use



Energy
Higher useable energy means greater battery utilization and lower cost

How lithium-ion measures up

Battery Technology	Capacity (1C rate)	Weight	Voltage Output	Useful Life	Maintenance
TB17 Lithium-ion Aircraft Battery	17 amp-hour	16 lbs.	26.4 VDC	8 years (average)	2 years
Lead-acid Battery	17 amp-hour	43 lbs.	24 VDC	2 – 4 years	Annual
Nickel-cadmium Battery	17 amp-hour	38.5 lbs.	24 VDC	5 – 10 years	200 – 400 hours

Battery Technology	Capacity (1C rate)	Weight	Voltage Output	Useful Life	Maintenance
TB20 Lithium-ion Aircraft Battery	20 amp-hour	20 lbs.	26.4 VDC	8 years (average)	On-condition
Lead-acid Battery	17 amp-hour	43 lbs.	24 VDC	2 – 4 years	Annual
Nickel-cadmium Battery	17 amp-hour	38.5 lbs.	24 VDC	5 – 10 years	200 – 400 hours

Battery Technology	Capacity (1C rate)	Weight	Voltage Output	Useful Life	Maintenance
TB30 Lithium-ion Aircraft Battery	30 amp-hour	28.5 lbs.	26.4 VDC	8 years (average)	On-condition
Lead-acid Battery	28 amp-hour	62 lbs.	24 VDC	2 – 4 years	Annual
Nickel-cadmium Battery	27 amp-hour	54.3 lbs.	24 VDC	5 – 10 years	200 – 400 hours

Battery Technology	Capacity (1C rate)	Weight	Voltage Output	Useful Life	Maintenance
TB40 Lithium-ion Aircraft Battery	40 amp-hour	38.5 lbs.	26.4 VDC	8 years (average)	On-condition
Lead-acid Battery	42 amp-hour	86 lbs.	24 VDC	2 – 4 years	Annual
Nickel-cadmium Battery	44 amp-hour	80 lbs.	24 VDC	5 – 10 years	200 – 400 hours

Battery Technology	Capacity (1C rate)	Weight	Voltage Output	Useful Life	Maintenance
TB44 Lithium-ion Aircraft Battery	46 amp-hour	51.7 lbs.	26.4 VDC	8 years (average)	2 years
Lead-acid Battery	42 amp-hour	86 lbs.	24 VDC	2 – 4 years	Annual
Nickel-cadmium Battery	44 amp-hour	80 lbs.	24 VDC	5 – 10 years	200 – 400 hours



Lithium-ion Aircraft Batteries

PRODUCT COMPARISON CHART

- TB17 (17 amp hour)
- TB20 (20 amp hour)
- TB30 (30 amp hour)
- TB40 (40 amp hour)
- TB44 (46 amp hour)