



RBGT-16

Voltage: 12.8 V | Capacity: 16 Ah | Energy: 204.8 Wh | Golf Trolley Battery

LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	16 Ah
Resistance	40 mΩ
Efficiency	99%
Self Discharge	<3% per Month

DISCHARGE SPECIFICATIONS

Standard Discharge Current	16 A
Maximum Continuous Discharge Current	25 A
PCM Discharge Current Cut-Off	150 A (±20 A)
Recommended Low Voltage Disconnect	11.0 V
PCM Discharge Voltage Cut-Off	8.0 V
Reconnect Voltage	>8.0 V
Short Circuit Protection Response Time	200-500 μs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	-4 to 113 °F (-20 to 45 °C)
Recommended Storage Temperature	-4 to 140 °F (-20 to 60 °C)
PCM High Temperature Cut-Off	149 °F (65 °C)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	6.6 x 5.0 x 3.0" 168 x 128 x 76 mm
Weight	4.6 lbs (2.1 kg)
Terminal Type	T-Bar Connector
Cell Type	Cylindrical
Chemistry	LiFePO4

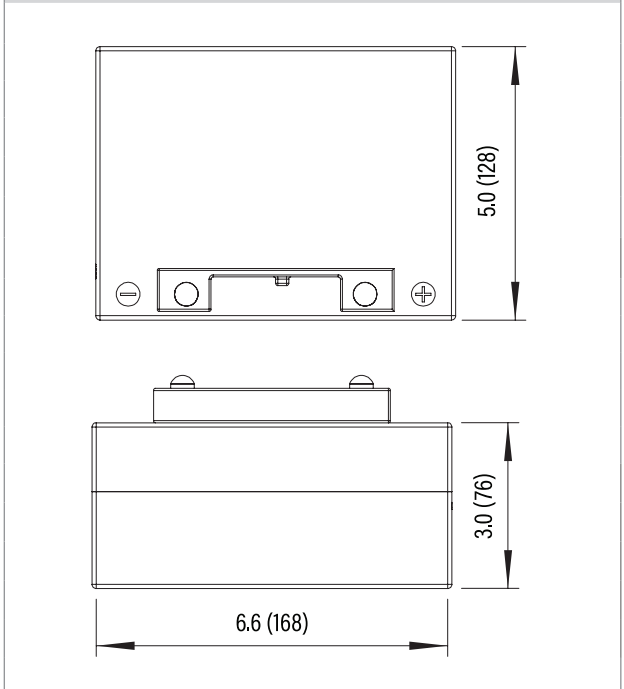
CHARGE SPECIFICATIONS

Recommended Charge Current	≤5 A
Maximum Continuous Charge Current	5 A
Charge Current (0 to -10 °C)	≤0.1 C
Charge Current (-20 to -10 °C)	≤0.05 C
PCM Charge Current Cut-Off	150 A (±20 A)
Recommended Charge Voltage	14.4 V
PCM Charge Voltage Cut-Off	15.2 V
Reconnect Voltage	14.4 V
Balancing Voltage	14.4 V

COMPLIANCE SPECIFICATIONS

Certifications	UKCA, CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

DIMENSIONAL SPECIFICATIONS





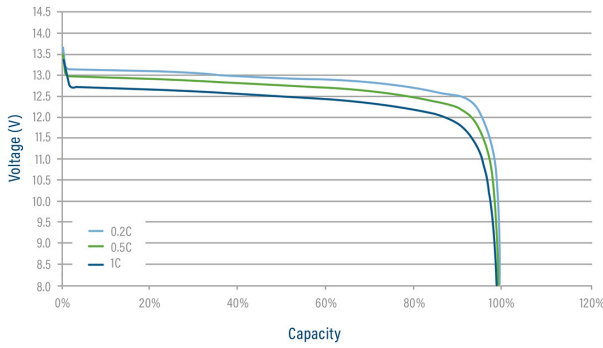
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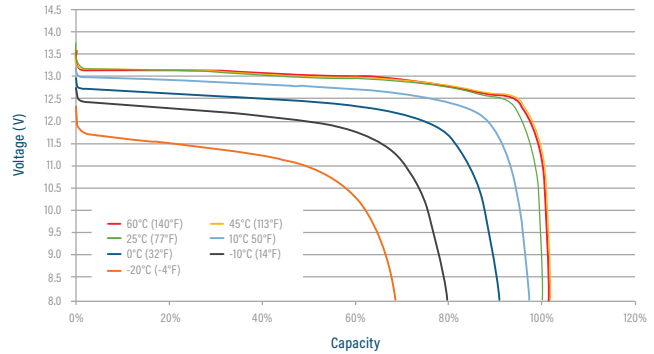
LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

TYPICAL LITHIUM IRON PHOSPHATE CHARACTERISTICS*

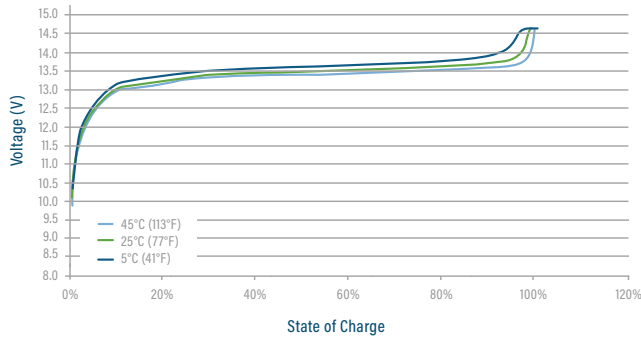
DISCHARGE VOLTAGE CHARACTERISTICS AT VARIOUS RATES
25°C (77°F)



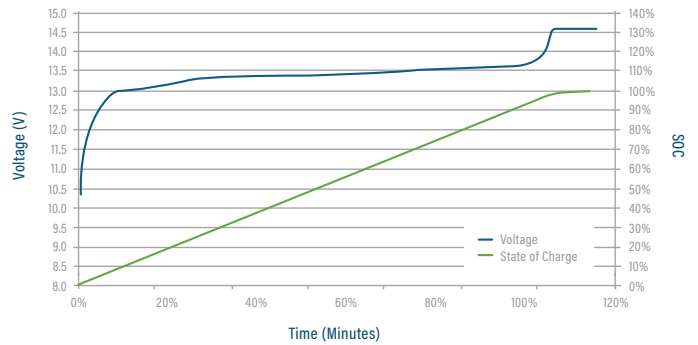
DISCHARGE VOLTAGE CHARACTERISTICS AT VARIOUS TEMPERATURES
DISCHARGE 1C



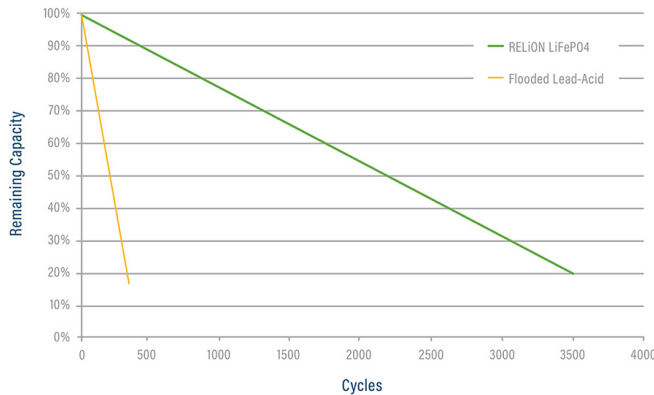
CHARGE VOLTAGE CHARACTERISTICS AT VARIOUS RATES
CHARGE 0.2C



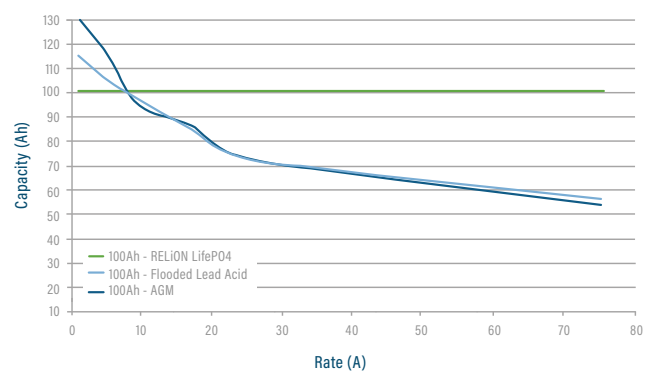
CHARGE VOLTAGE AND STATE OF CHARGE (SOC)
CHARGE 0.2C @ 25°C (77°F)



CYCLE LIFE VS. DEPTH OF DISCHARGE (DOD) AT 80%
DISCHARGE 0.5C/CHARGE 0.5C @ 25°C (77°F)



CAPACITY OF RELION LiFePO4 vs. LEAD ACID
at VARIOUS RATES OF DISCHARGE



*Performance between applications and batteries may vary. All results should be independently verified by customer.

