



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	35 Ah
Capacity @ 25A	84 min
Energy	448 Wh
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

DISCHARGE SPECIFICATIONS

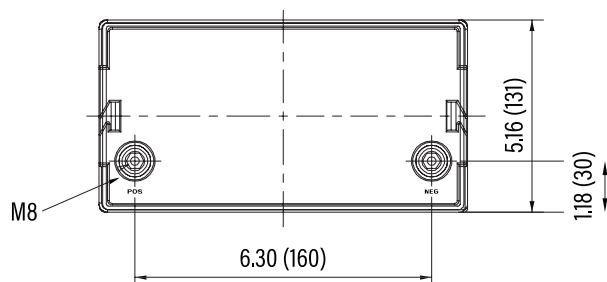
Maximum Continuous Discharge Current	35 A
Peak Discharge Current	70 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	80 A ±8 A (32 ±8 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (20 ±8 ms)
Reconnect Voltage	9.04 V (2.26 ±0.34 vpc)
Short Circuit Protection	100-600 μs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature*	32 to 113 °F (0 to 45 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off - Discharge	185 °F (85 °C)
BMS High Temperature Cut-Off - Charge	140 °F (60 °C)
Reconnect Temperature	122 °F (50 °C)

*Refer to charge currents below 0°C (32°F)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	7.7 x 5.2 x 6.7"
	195 x 131 x 171 mm
Weight	10.8 lbs (4.9 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

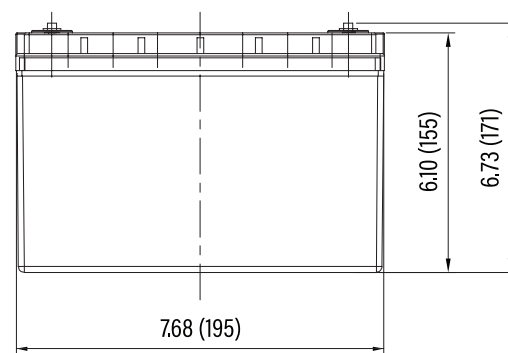
Recommended Charge Current	1.75 A - 17.5 A
Maximum Charge Current	35 A
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1 ±0.3 s)
Reconnect Voltage	14.6 V (3.8 ±0.050 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

HEATING ELEMENT SPECIFICATIONS

Heating Temperature Range	-4 to 50 °F (-20 to 10 °C)
Heating Time	Approximately 1 hr @ 5 A
BMS Heating Element Cut-Off	158 °F (70 °C)

COMPLIANCE SPECIFICATIONS

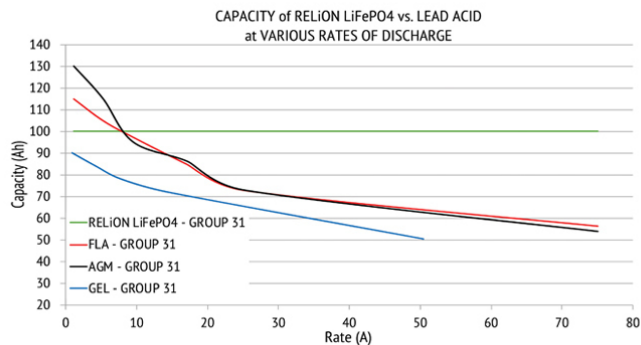
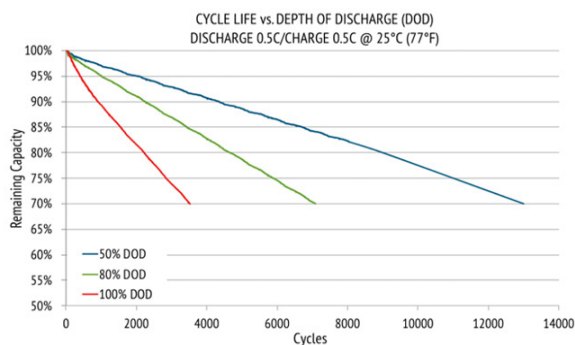
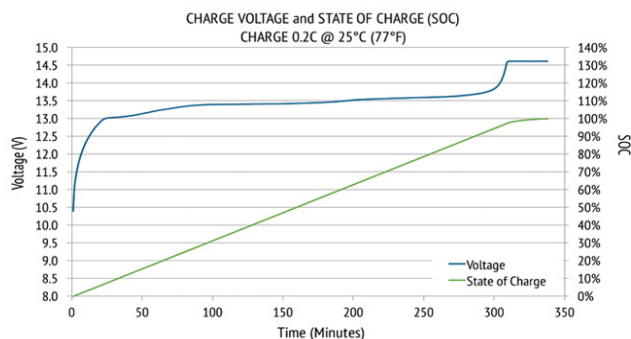
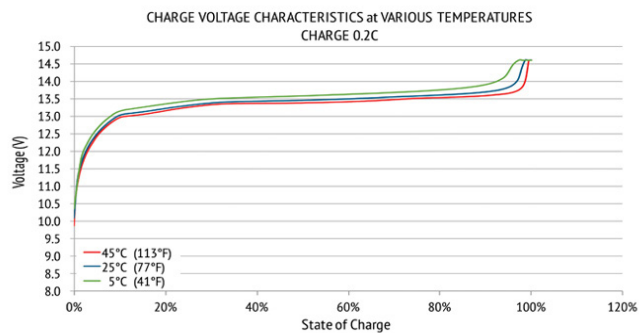
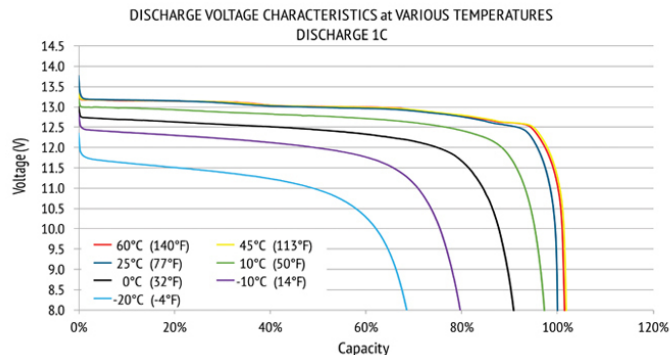
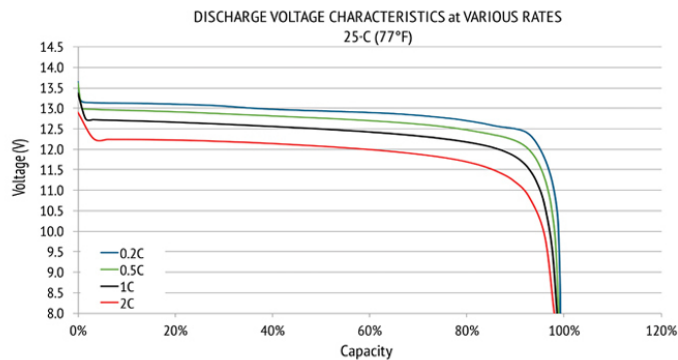
Certifications	CE (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9





RB35-LT

Group: U1



Canada: 1-888-271-8888

United States: 1-844-370-0258

Panama: +507-292-4776

sales@magnacharge.com

