



# RB35-X

Voltage: 12.8V | Capacity: 35 Ah | Energy: 448 Wh | Group: U1

LITHIUM IRON PHOSPHATE BATTERY **LiFePO<sub>4</sub>**

## ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	35 Ah
Capacity @ 25A	84 min
Resistance	≤50 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1

## DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	70 A
Peak Discharge Current	100 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	160 A ±20 A (9 ±4 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (144 ±30 ms)
Reconnect Voltage	8.64 V ±0.96 V (2.16 ±0.24 vpc)
Short Circuit Protection	200-800 μs

## TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature*	-4 to 113 °F (-20 to 45 °C)
Storage Temperature	14 to 95 °F (-10 to 35 °C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	122 °F (50 °C)

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

## MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	7.7 x 5.2 x 6.7" 195 x 131 x 171 mm
Weight	11.4 lbs (5.17 kg)
Terminal Type	M8 x 1.25 x 12mm
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP66
Cell Type - Chemistry	Cylindrical - LiFePO <sub>4</sub>

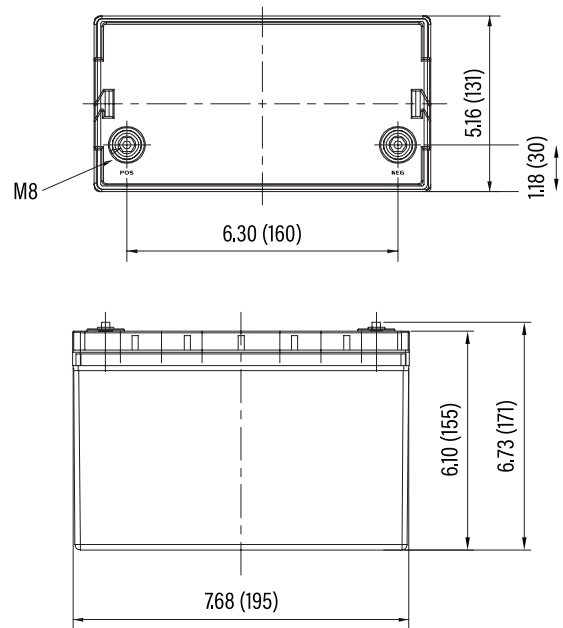
## CHARGE SPECIFICATIONS

Recommended Charge Current	1.75 A - 17.5 A
Maximum Charge Current	70 A
Charge Current 14 to 32 °F (-10 to 0 °C)	≤0.1 C
Charge Current -4 to 14 °F (-20 to -10 °C)	≤0.05 C
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1.2 ±0.3 s)
Reconnect Voltage	15.2 V (3.8 ±0.050 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

## COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UL1642 (cells) (File# MH62098) IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

## DIMENSIONAL SPECIFICATIONS



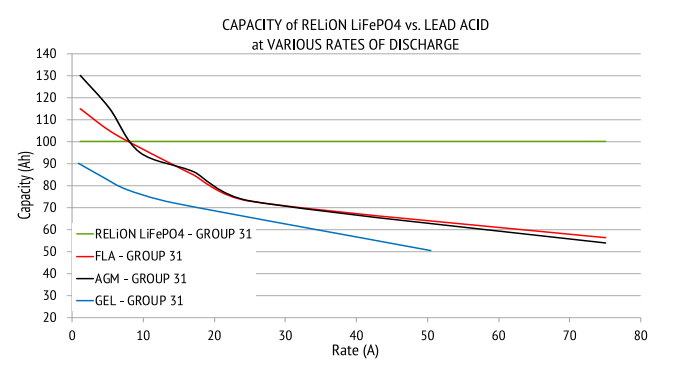
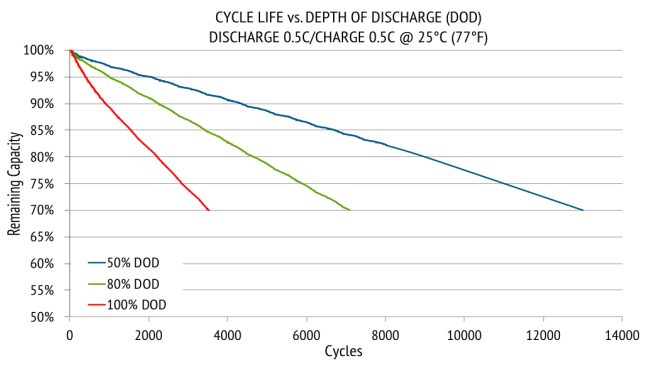
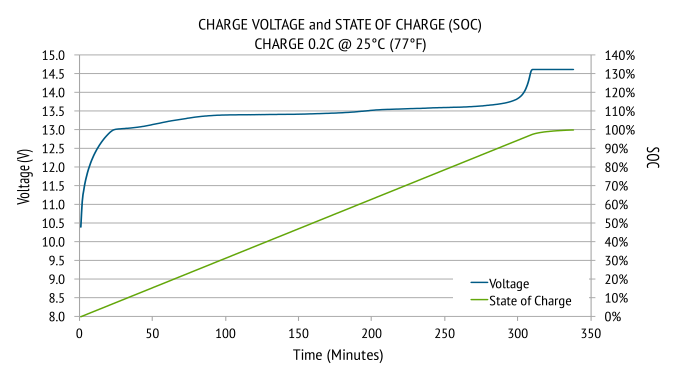
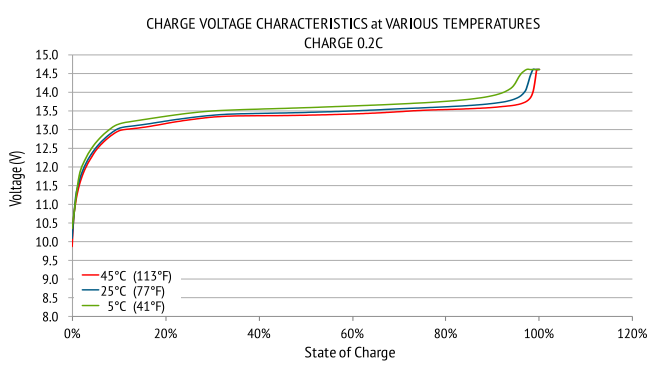
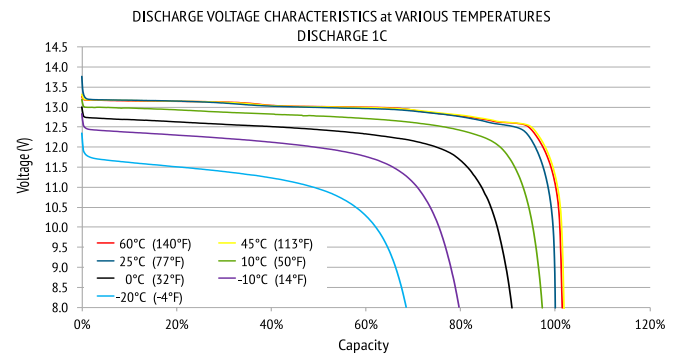
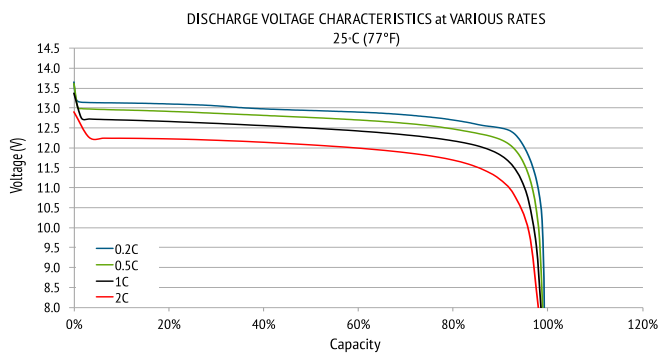


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## PERFORMANCE CHARACTERISTICS



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