

RB35-LT



MECHANICAL SPECIFICATIONS

Group: U1

7.7 x 5.2 x 6.7"

M8

ABS

IP56

195 x 131 x 171 mm 11 lbs (4.9 kg)

80 - 100 in-lbs (9 - 11 N-m)

Cylindrical - LiFePO₄

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)

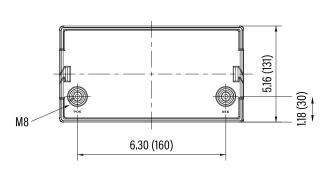
Dimensions (L x W x H)
Weight
Terminal Type
Terminal Torque
Case Material
Enclosure Protection
Cell Type - Chemistry
CHARGE SPECIFICAT
Recommended Charge
Maximum Charge Curre
Recommended Charge
BMS Charge Voltage Cu
Reconnect Voltage
Balancing Voltage
HEATING FI EMENT

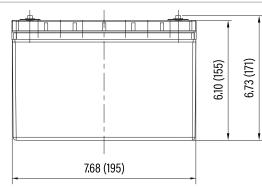
CHARGE SPECIFICATIONS	
Recommended Charge Current	1.75 A - 17.5 A
Maximum Charge Current	35 A
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1 ±0.3 s)
Reconnect Voltage	14.6 V (3.8 ±0.050 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

HEATING ELEMENT SPECIFICATI	ONS
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

DIMENSIONAL SPECIFICATIONS





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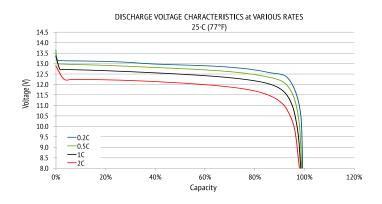


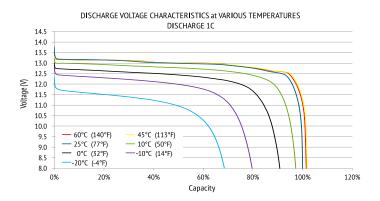
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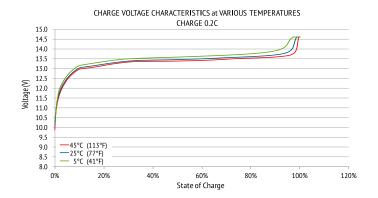


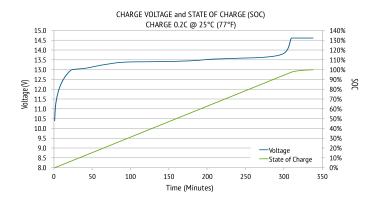
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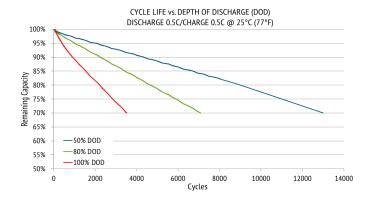
PERFORMANCE CHARACTERISTICS

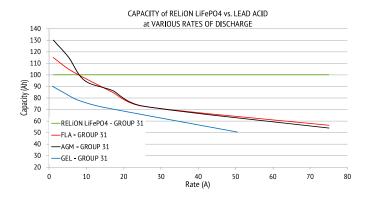




















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