



# RB48V25

Voltage: 51.2V | Capacity: 25 Ah | Energy: 1280 Wh | Group: 24

LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

## ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2 V
Nominal Capacity	25 Ah
Resistance	≤70 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

## DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	20 A
Peak Discharge Current	25 A (4 ±1 s)
BMS Discharge Current Cut-Off	60 A ±10 A (6 ±3 ms)
Recommended Low Voltage Disconnect	44 V
BMS Discharge Voltage Cut-Off	40 V (2.5 ±0.1 vpc) (100 ±50 ms)
Reconnect Voltage	32 V (2.0 ±0.1 vpc)
Short Circuit Protection	400-600 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	23 to 95° F (-5 to 35° C)
BMS High Temperature Cut-Off	149° F (65° C)
Reconnect Temperature	122° F (50° C)

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

## MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	10.2 x 6.6 x 8.2" 260 x 168 x 210 mm
Weight	27.6 lbs (12.5 kg)
Terminal Type	M8 x 1.25
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP66
Cell Type - Chemistry	Cylindrical - LiFePO4

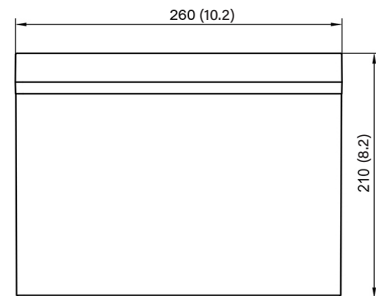
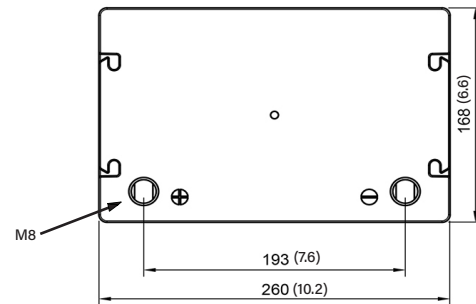
## CHARGE SPECIFICATIONS

Recommended Charge Current	1.25 A - 12.5 A
Recommended Maximum Charge Current	20 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	56.0 V - 58.4 V
BMS Charge Voltage Cut-Off	60.8 V (3.8 ±0.05 vpc) (1.0 ±0.5 s)
Reconnect Voltage	57.6 V (3.6 ±0.05 vpc)
Balancing Voltage	57.6 V (3.6 ±0.025 vpc)

## COMPLIANCE SPECIFICATIONS

Certifications	UN38.3 & CE (battery) UL1642 (cells) (File# MH62098) IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

## DIMENSIONAL SPECIFICATIONS



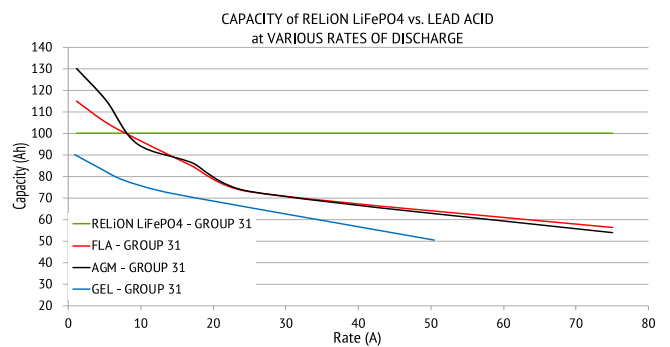
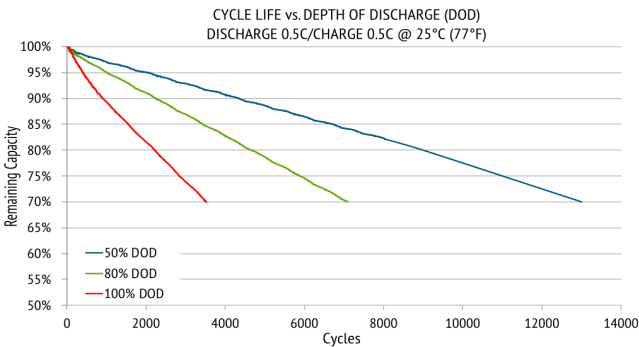
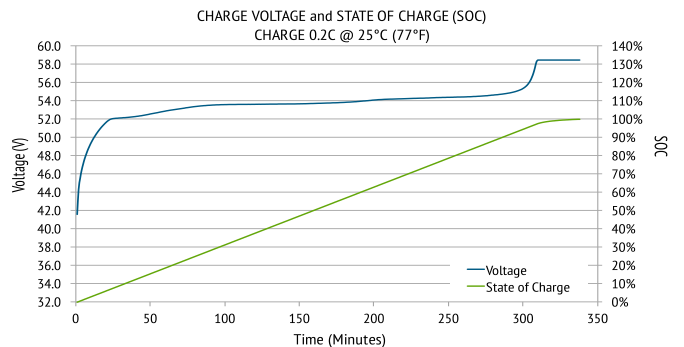
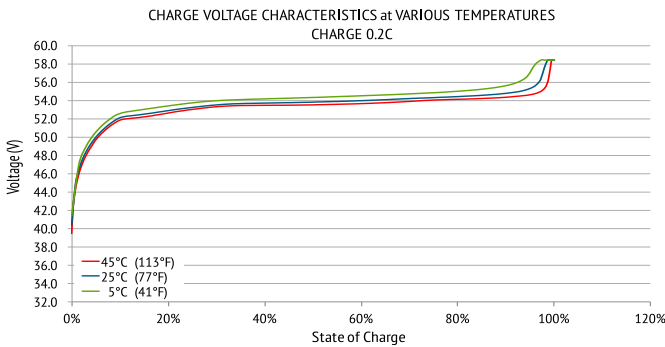
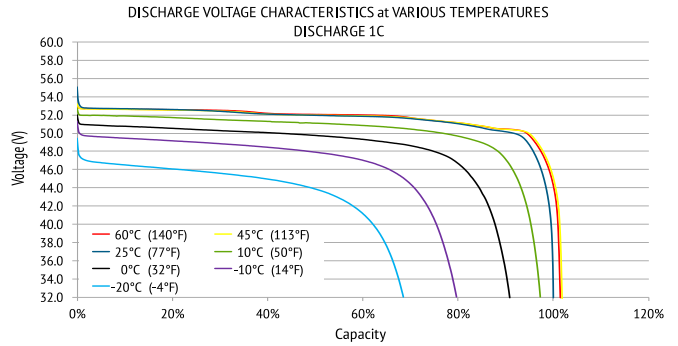
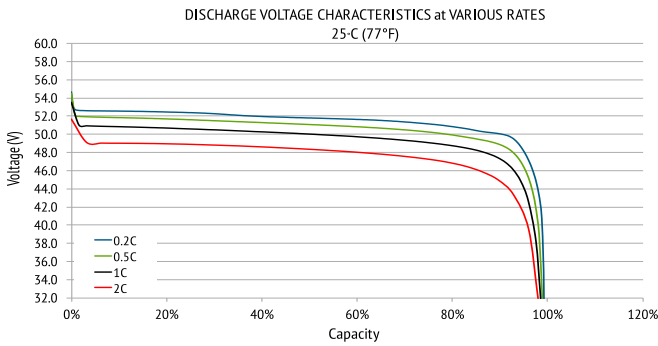


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## PERFORMANCE CHARACTERISTICS



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+1.803.547.7288 • TOLL FREE: (855) 931-2466 | 1433 Dave Lyle Blvd • Rock Hill, SC 29730

UN38.3

