



**RB12** 

Voltage: 12.8V | Capacity: 12 Ah | Energy: 154 Wh

## LITHIUM IRON PHOSPHATE BATTERY LIFePO4

#### **ELECTRICAL SPECIFICATIONS**

Nominal Voltage	12.8 V
Nominal Capacity	12 Ah
Resistance	≤90 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1

DISCHARGE SPECIFICATIONS	
Maximum Continous Discharge Current	10 A
Peak Discharge Current	20 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	30 A ±5 A (10 ±5 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (100 ±50 ms)
Reconnect Voltage	10 V (2.5 ±0.1 vpc)
Short Circuit Protection	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)
Storage Temperature	23 to 95 °F (-5 to 35°C)

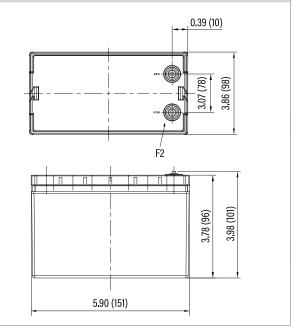
\*Refer to charge currents below 32°F (0°C)

MECHANICAL SPECIFICATIONS		
Dimensions (L x W x H)	5.9 x 3.9 x 4.0" 151 x 98 x 101 mm	
Weight	3.6 lbs (1.65 kg)	
Terminal Type	F2 terminal	
Case Material	ABS	
Enclosure Protection	IP66	
Cell Type - Chemistry	Cylindrical - LiFePO <sub>4</sub>	

CHARGE SPECIFICATIONS	
Recommended Charge Current	0.5 A - 5 A
Maximum Charge Current	10 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) (1.0 ±0.5 s)
Reconnect Voltage	15.2 V (3.8 ±0.05 vpc)

COMPLIANCE SPECIFICATIONS	
Certifications	UN38.3 & CE (battery) UL1642 (cells) (File# MH64523) IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

#### **DIMENSIONAL SPECIFICATIONS**



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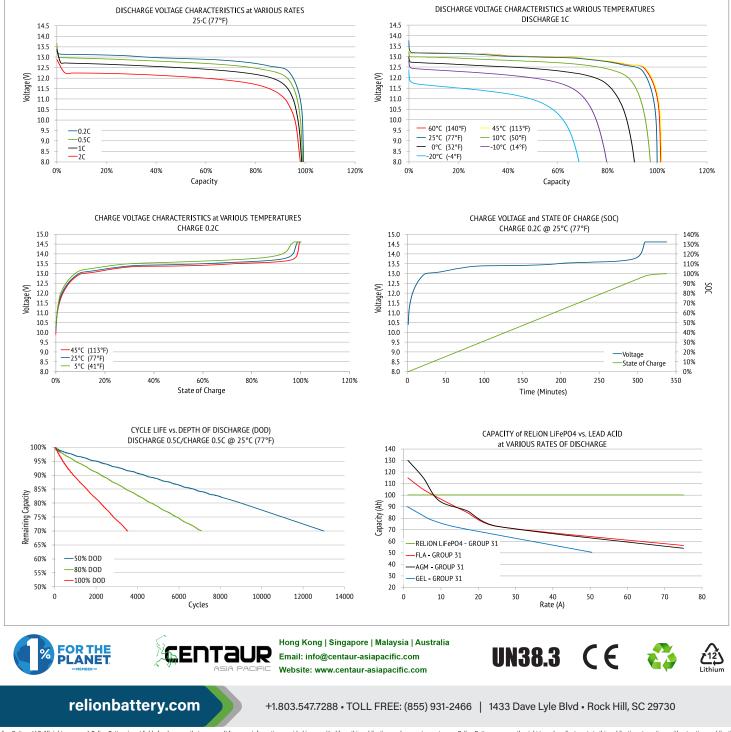
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RELI<sup>3</sup>ON<sup>\*</sup> DATA SHEET

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# **PERFORMANCE CHARACTERISTICS**



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