



RB80

Voltage: 12.8V | Capacity: 80 Ah | Energy: 1024 Wh | Group: 27

LITHIUM IRON PHOSPHATE BATTERY LIFePO4

ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	80 Ah
Capacity @ 25A	192 min
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4

DISCHARGE SPECIFICATIONS		
Maximum Continous Discharge Current	80 A	
Peak Discharge Current	160 A (7.5±2.5 sec)	
BMS Discharge Current Cut-Off	280 A ±50 A (9 ±4 ms)	
Recommended Low Voltage Disconnect	11 V	
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (144 ms±30 ms)	
Reconnect Voltage	9.2 V (2.3 ±0.1 vpc)	
Short Circuit Protection	200-600 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	176 °F (80 °C)	
Reconnect Temperature	122 °F (50 °C)	

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

MECHANICAL SPECIFICATIONS		
Dimensions (L x W x H)	12 x 6.6 x 8.2" 305 x 168 x 210 mm	
Weight	24.9 lbs (11.3 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 ₄	

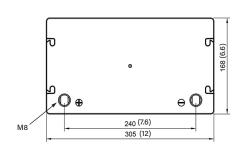
CHARGE SPECIFICATIONS

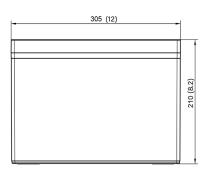
4 A - 40 A
80 A
≤0.1 C
≤0.05 C
14.2 V - 14.6 V
15.6 V (3.9 ±0.025 vpc) (1.1 ±0.4 s)
15.2 V (3.8 ±0.05 vpc)
14.4 V (3.6 ±0.025 vpc)

RELI³ON[°] DATA SHEET

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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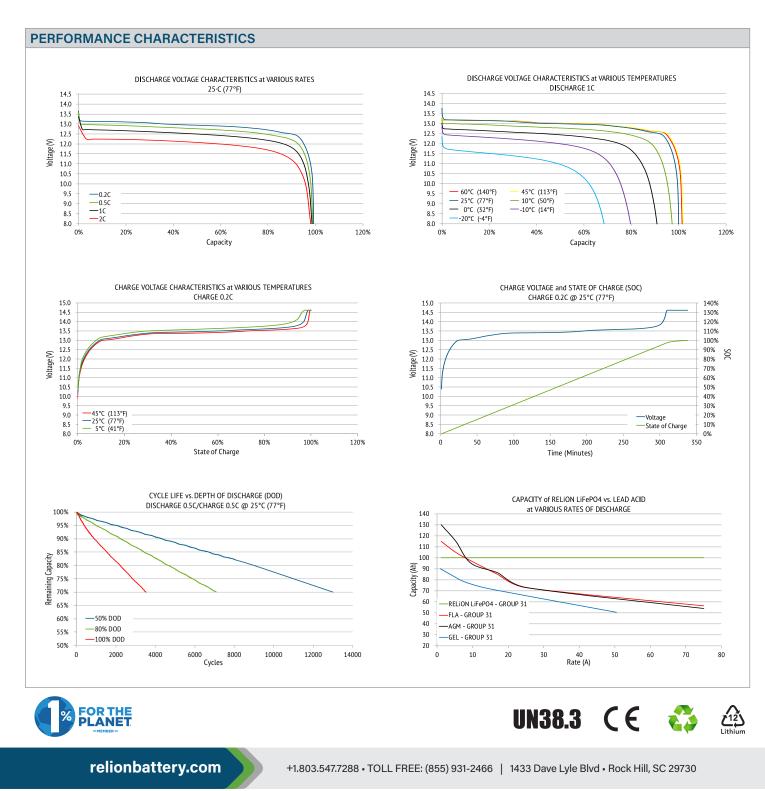




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RELI³ON^{*} DATA SHEET

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