





## **LITHIUM IRON PHOSPHATE BATTERY**

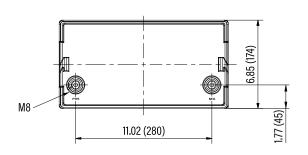
ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Energy	1280 Wh
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4

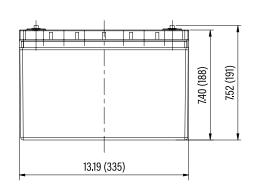
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	280 A ±50 A (9 ±4 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (140 ±60 ms)
Reconnect Voltage	9.2 V (2.3 ±0.1 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)
neconnect temperature	122 1 (30 0)

Weight 30 lbs (13.7 kg)  Terminal Type M8  Terminal Torque 80 - 100 in-lbs (9 - 11  Case Material ABS  Enclosure Protection IP56  Cell Type - Chemistry Cylindrical - LiFePO <sub>4</sub> CHARGE SPECIFICATIONS  Recommended Charge Current 5 A - 50 A  Maximum Charge Current 100 A  Charge Current (0 to -10 °C) $\leq$ 0.1 C  Charge Current (-20 to -10 °C) $\leq$ 0.05 C  Recommended Charge Voltage 14.2 V - 14.6 V  BMS Charge Voltage Cut-Off 15.6 V (3.9 $\pm$ 0.025 vp (1.1 $\pm$ 0.4 s)  Reconnect Voltage 15.2 V (3.8 $\pm$ 0.05 vpc  Balancing Voltage 14.4 V (3.6 $\pm$ 0.025 vp	Dimensions (L x W x H)	13.2 x 6.9 x 7.5"
Terminal Type M8  Terminal Torque 80 - 100 in-lbs (9 - 11  Case Material ABS  Enclosure Protection IP56  Cell Type - Chemistry Cylindrical - LiFeP0 $_4$ CHARGE SPECIFICATIONS  Recommended Charge Current 5 A - 50 A  Maximum Charge Current 100 A  Charge Current (0 to -10 °C) $\leq$ 0.1 C  Charge Current (-20 to -10 °C) $\leq$ 0.05 C  Recommended Charge Voltage 14.2 V - 14.6 V  BMS Charge Voltage Cut-Off 15.6 V (3.9 $\pm$ 0.025 vp (1.1 $\pm$ 0.4 s)  Reconnect Voltage 15.2 V (3.8 $\pm$ 0.05 vpc  Balancing Voltage 14.4 V (3.6 $\pm$ 0.025 vp	Difficitions (EX W X II)	335 x 174 x 191 mm
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CHARGE SPECIFICATIONS         Recommended Charge Current $5 \text{ A} - 50 \text{ A}$ Maximum Charge Current $100 \text{ A}$ Charge Current (0 to -10 °C) $≤ 0.1 \text{ C}$ Charge Current (-20 to -10 °C) $≤ 0.05 \text{ C}$ Recommended Charge Voltage $14.2 \text{ V} - 14.6 \text{ V}$ BMS Charge Voltage Cut-Off $15.6 \text{ V} (3.9 \pm 0.025 \text{ vp} (1.1 \pm 0.4 \text{ s})$ Reconnect Voltage $15.2 \text{ V} (3.8 \pm 0.05 \text{ vpc}$ Balancing Voltage $14.4 \text{ V} (3.6 \pm 0.025 \text{ vp}$	Enclosure Protection	IP56
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CE (bottom)	<b>COMPLIANCE</b> SPECIFICATIONS	
CE (Dattery)		CE (battery)

## **DIMENSIONAL SPECIFICATIONS**





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UN38.3 (battery) UL1642 & IEC62133 (cells)

UN 3480, CLASS 9

Certifications

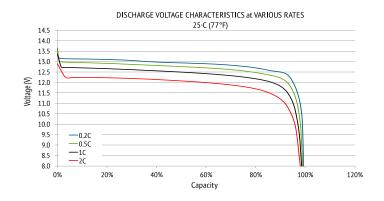
**Shipping Classification** 

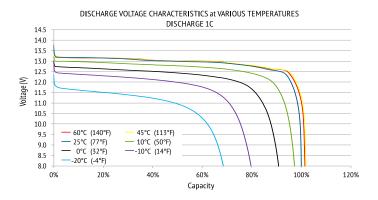


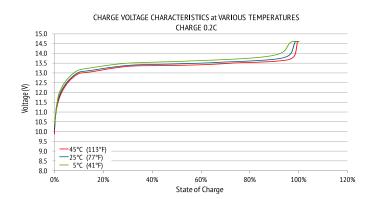


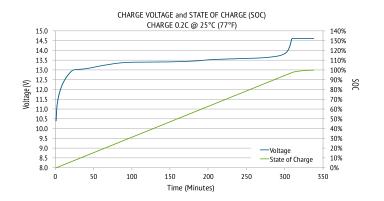


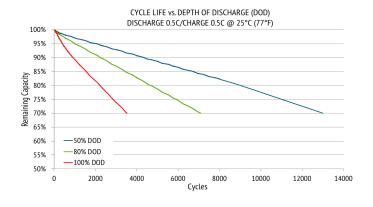
## **PERFORMANCE CHARACTERISTICS**

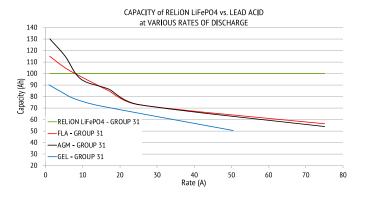












UN38.3







