



Reconnect Voltage
Short Circuit Protection

**DIMENSIONAL SPECIFICATIONS** 



## **LITHIUM IRON PHOSPHATE BATTERY**

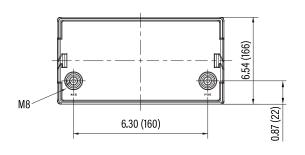
ELECTRICAL SPECIFICATIONS		<b>MECHANICAL</b> SPECIFI
Nominal Voltage	12.8 V	Dimensions (L x W x H)
Nominal Capacity	40 Ah	
Capacity @ 25A	96 min	Weight
Energy	512 Wh	Terminal Type
Resistance	≤50 mΩ @ 50% SOC	Terminal Torque
Efficiency	99%	Case Material
Self Discharge	<3% per Month	<b>Enclosure Protection</b>
Maximum Modules in Series	4	Cell Type - Chemistry
DISCHARGE SPECIFICATIONS		CHARGE SPECIFICATION
Maximum Continuous Discharge Current	40 A	Recommended Charge Cu
Peak Discharge Current	80 A (7.5 s ±2.5 s)	Maximum Charge Current
BMS Discharge Current Cut-Off	170 A ±20 A (20 ±5 ms)	Charge Current 14 to 32 °F
Recommended Low Voltage Disconnect	11 V	Charge Current -4 to 14 °F
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (140 ±60 ms)	Recommended Charge Vo

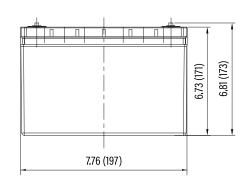
10 V (2.5 ±0.1 vpc)

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)	

Dimensions (L x W x H)	7.8 x 6.5 x 6.8"
Zimonolono (EX W X II)	197 x 166 x 173 mm
Weight	12 lbs (5.4 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO <sub>4</sub>
CHARGE SPECIFICATIONS	
Recommended Charge Current	2 A - 20 A
Maximum Charge Current	40 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	15.2 V (3.8 $\pm$ 0.025 vpc) (1.1 $\pm$ 0.4 s)
Reconnect Voltage	14.4 V (3.6 ±0.050 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)
COMPLIANCE SPECIFICATIONS	
	CE (battery)
Certifications	UN38.3 (battery) UL1642 & IEC62133 (cells)





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UN 3480, CLASS 9

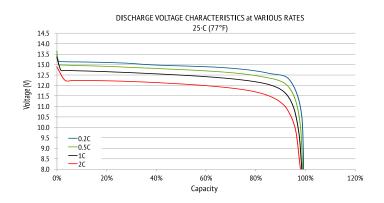
**Shipping Classification** 

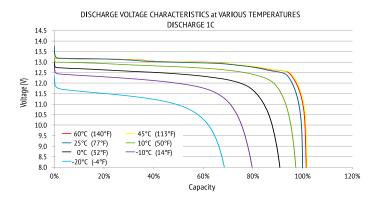


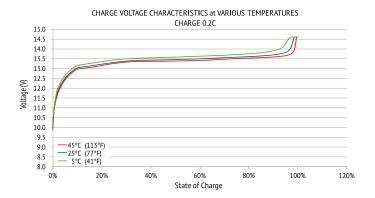


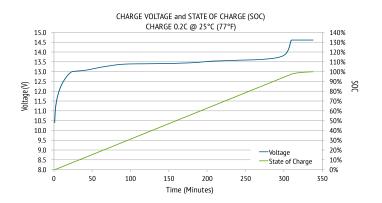


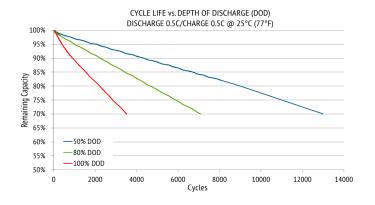
## **PERFORMANCE CHARACTERISTICS**

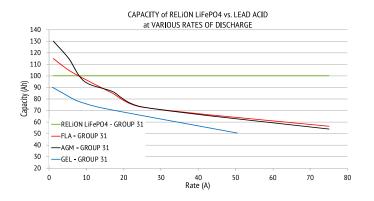












UN38.3







