





LITHIUM IRON PHOSPHATE BATTERY

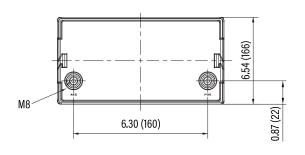
ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	40 Ah
Capacity @ 25A	96 min
Energy	512 Wh
Resistance	≤50 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4
Maximum Modules III Selles	4
DISCHARGE SPECIFICATIONS	

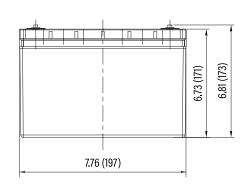
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	40 A
Peak Discharge Current	80 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	170 A ±20 A (20 ±5 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V ($2.0 \pm 0.08 \text{ vpc}$) ($140 \pm 60 \text{ ms}$)
Reconnect Voltage	10 V (2.5 ±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)

Dimensions (L x W x H)	7.8 x 6.5 x 6.8" 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 ₄	
CHARGE SPECIFICATIONS		
Recommended Charge Current	2 A - 20 A	
Maximum Charge Current	40 A	
Charge Current (0 to -10 °C)	≤0.1 C	
Charge Current (-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 ±0.025 vpc) (1.1 ±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		
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)	

DIMENSIONAL SPECIFICATIONS





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UN 3480, CLASS 9

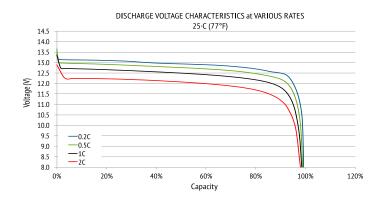
Shipping Classification

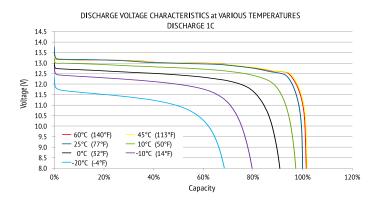


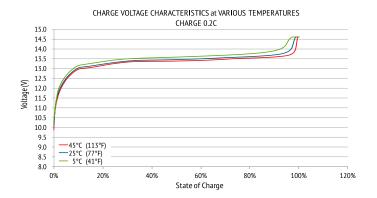


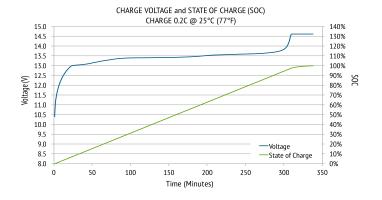


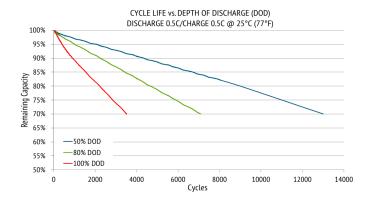
PERFORMANCE CHARACTERISTICS

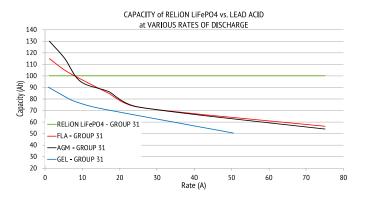












UN38.3







