

RB24V100



Group: 8D

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS	
Nominal Voltage	25.6 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Energy	2560 Wh
Resistance	\leq 30 m Ω @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

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	22 V
BMS Discharge Voltage Cut-Off	16 V (2.0 ±0.08 vpc) (20 ±6 ms)
Reconnect Voltage	20 V (2.5 ±0.05 vpc)
Short Circuit Protection	200-600 μs

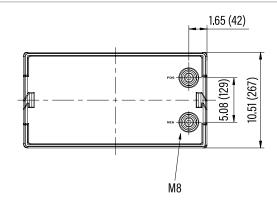
TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 113 °F (0 to 45 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	176 °F (80 °C)
Reconnect Temperature	122 °F (50 °C)

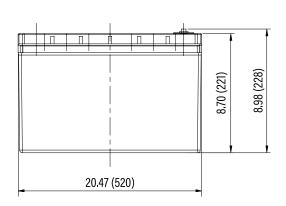
MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	20.5 x 10.5 x 9.0" 520 x 267 x 228 mm
Weight	61 lbs (27.7 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS	
Recommended Charge Current	50 A
Maximum Charge Current	100 A
Recommended Charge Voltage	28.4 V - 29.2 V
BMS Charge Voltage Cut-Off	31.2 V $(3.9 \pm 0.025 \text{ vpc})$ $(1.1 \pm 0.4 \text{ s})$
Reconnect Voltage	30.4 V (3.8 ±0.05 vpc)
Balancing Voltage	28.8 V (3.6 vpc)

Certifications	CE (battery) UL1642 & IEC62133 (cells
Shipping Classification	UN 3480, CLASS 9

DIMENSIONAL SPECIFICATIONS





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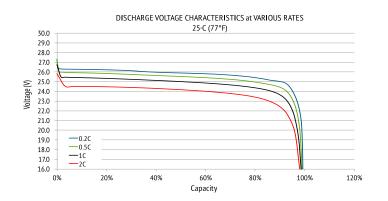


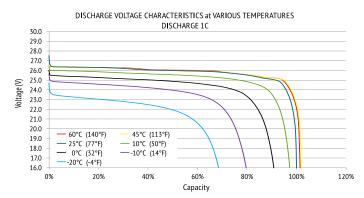
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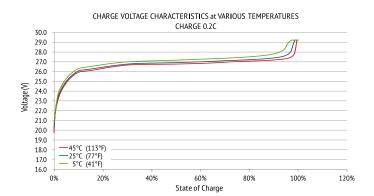


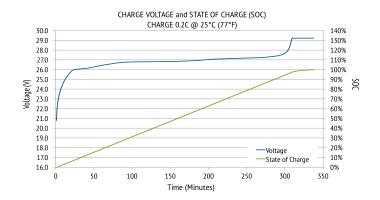
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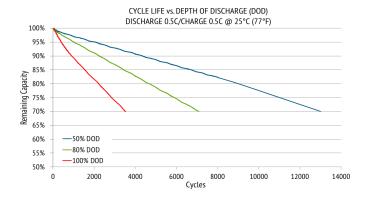
PERFORMANCE CHARACTERISTICS

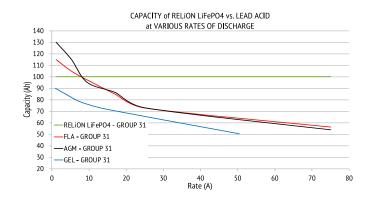






















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