

RB20-LT



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	20 Ah
Capacity @ 25A	48 min
Energy	256 Wh
Resistance	≤45 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	20 A
Peak Discharge Current	40 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	50 A ±8 A (32 ±8 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (20 ±8 ms)
Reconnect Voltage	9.04 V (2.26 ±0.34 vpc)
Short Circuit Protection	100-600 μs

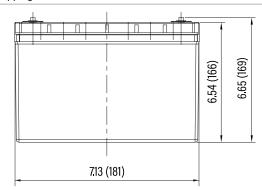
TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 113 °F (0 to 45 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off - Discharge	185 °F (85 °C)
BMS High Temperature Cut-Off - Charge	140 °F (60 °C)
Reconnect Temperature	122 °F (50 °C)

MECHANICAL SPECIFICATIONS
vimensions (L x W x H)
Veight
erminal Type
erminal Torque
ase Material
nclosure Protection
ell Type - Chemistry
CHARGE SPECIFICATIONS
ecommended Charge Current
laximum Charge Current
ecommended Charge Voltage
MS Charge Voltage Cut-Off
econnect Voltage
alancing Voltage
IEATING ELEMENT SPECIFICAT
leating Temperature Range
leating Time

Dimensions (L x W x H)	7.1 x 3.0 x 6.7" 181 x 76 x 169 mm
Weight	6.6 lbs (3 kg)
Terminal Type	M6
Terminal Torque	35 - 44 in-lbs (4 - 5 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄
CHARGE SPECIFICATIONS	
Recommended Charge Current	1 A - 10 A
Maximum Charge Current	20 A
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1 ±0.3 s)
Reconnect Voltage	14.6 V (3.8 ±0.050 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

HEATING ELEMENT SPECIFICAT	TIONS		
Heating Temperature Range -4 to 50 °F (-20 to 10 °			
Heating Time	Approximately 1 hr @ 3 A		
BMS Heating Element Cut-Off	158 °F (70 °C)		
COMPLIANCE SPECIFICATIONS			
Certifications	CE (battery) UL1642 & IEC62133 (cells)		
Shipping Classification	UN 3480, CLASS 9		

			Pos	2.99 (76)	0.51 (13)
M6 ===	6.10	(155)		,	— 0 '



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DIMENSIONAL SPECIFICATIONS







PERFORMANCE CHARACTERISTICS

