

RB20



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	20 Ah
Capacity @ 25A	48 min
Energy	256 Wh
Resistance	≤60 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	3

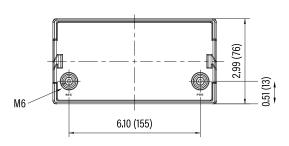
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	20 A
Peak Discharge Current	40 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	70 A ±10 A (20 ±5 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (140 ±60 ms)
Reconnect Voltage	10 V (2.5 ±0.10 vpc)
Short Circuit Protection	200-500 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	158 °F (70 °C)
Reconnect Temperature	122 °F (50 °C)
*Refer to charge currents below 32°F (0°C)	

DIMENSIONAL SPECIFICATIONS

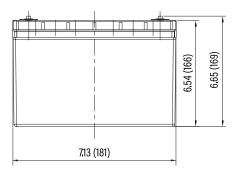


MECHANICAL SPECIFICATIONS 7.1 x 3.0 x 6.7" Dimensions (L x W x H) 181 x 76 x 169 mm Weight 5.6 lbs (2.55 kg) **Terminal Type** Μ6 **Terminal Torque** 35 - 44 in-lbs (4 - 5 N-m) ABS **Case Material Enclosure Protection** IP56 Cell Type - Chemistry Cylindrical - LiFePO₄

CHARGE SPECIFICATIONS Recommended Charge Current 1 A - 10 A 20 A Maximum Charge Current 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 15.2 V (3.8 ±0.025 vpc) BMS Charge Voltage Cut-Off (1.1 ±0.4 s) 14.4 V (3.6 ±0.050 vpc) **Reconnect Voltage** 14.4 V (3.6 ±0.025 vpc) **Balancing Voltage**

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9



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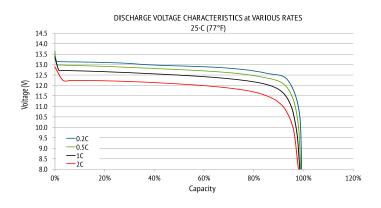
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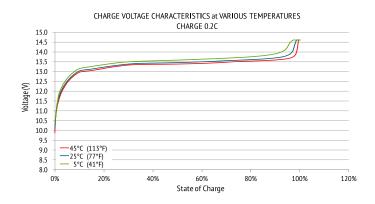


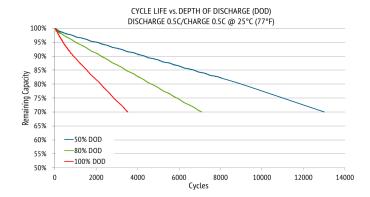


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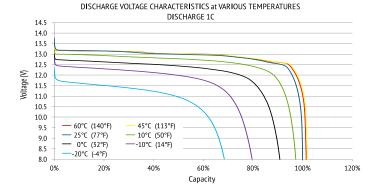
PERFORMANCE CHARACTERISTICS

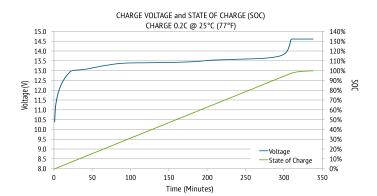


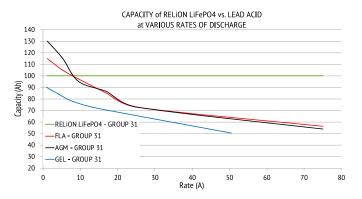




2.8V 20A RELION (€ 🚔 🚊









CE **UN38.3**

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