

RB100-HP



Group: 31

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Energy	1280 Wh
Resistance	$30~\text{m}\Omega$
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1

DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	100 A
Peak Discharge Current	800 A (2 s)
PCM Discharge Current Cut-Off	1000 A (±100 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	9.2 V
Reconnect Voltage	10 V
Short Circuit Protection	200-600 μs

TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 131 °F (0 to 55 °C)
Storage Temperature	-4 to 140 °F (-20 to 60 °C)
PCM High Temperature Cut-Off	176 °F (80 °C)

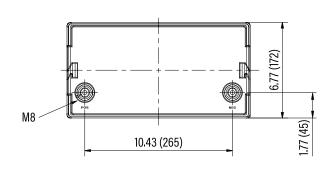
MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	13.0 x 6.8 x 8.8"
	329 x 172 x 223 mm
Weight	30 lbs (13.5 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄
CHARGE SPECIFICATIONS	
Recommended Charge Current	50 A
Maximum Charge Current	100 A
PCM Charge Current Cut-Off	1000 A (±100 A)

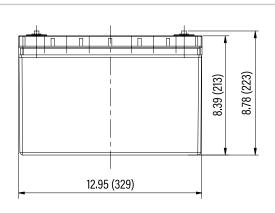
Balancing Voltage	14.4 V
COMPLIANCE SPECIFICATIONS	
Certifications	CE (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

14.2 V - 14.6 V

15.4 V 14.6 V

DIMENSIONAL SPECIFICATIONS





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Recommended Charge Voltage

PCM Charge Voltage Cut-Off

Reconnect Voltage

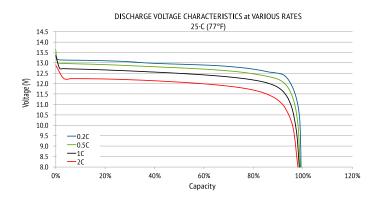


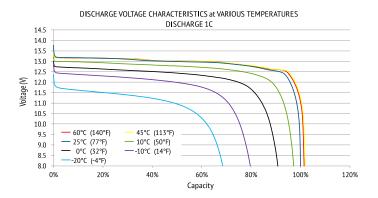
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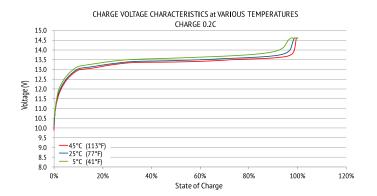


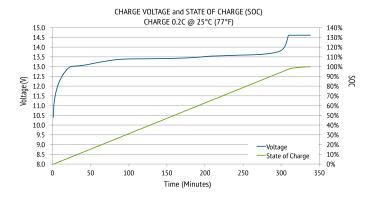
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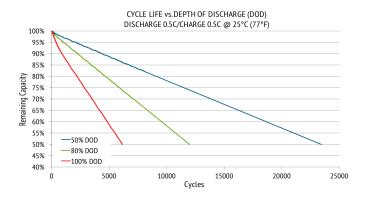
PERFORMANCE CHARACTERISTICS

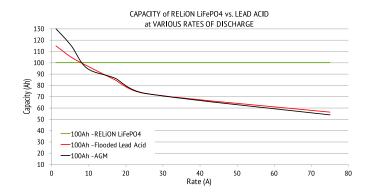






















RB100HPDS07.06.2017