

RB100-LT



Group: 31

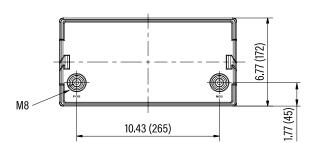
LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Energy	1280 Wh
Resistance	≤30 mΩ @ 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 (32 ±10 ms)
Recommended Low Voltage Disconnect	11 V

Recommended Low Voltage Disconnect	II V
BMS Discharge Voltage Cut-Off	9.2 V (2.3 ±0.08 vpc) (4.7 ±1 s)
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 - Discharge	185 °F (85 °C)
BMS High Temperature Cut-Off - Charge	140 °F (60 °C)
Reconnect Temperature	122 °F (50 °C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	12.95 x 6.77 x 8.9" 329 x 172 x 223 mm
Weight	30 lbs (13.59 kg)
Terminal Type	M8 X 1.25
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

official of Eon for the total	
Recommended Charge Current	5 A - 50 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.4 V (3.85 ±0.025 vpc) (1000 ±200 ms)
Reconnect Voltage	14.6 V (3.65 ±0.05 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

HEATING ELEMENT SPECIFICATIONS

Heating Temperature Range	-4 to 41 °F (-20 to 5 °C)
Heating Time	Approximately 1 hr @ 10 A
BMS Heating Element Cut-Off	167 °F (75 °C)

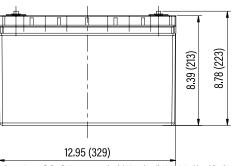
COMPLIANCE SPECIFICATIONS

Certifications

CE (battery) UL1642 & IEC62133 (cells)

Shipping Classification

UN 3480, CLASS 9



© 2019 Relion Battery, LLC. All rights reserved. Relion Battery is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Relion Battery reserves the right to make adjustments to this publication at any time, without notice or obligation.

relionbattery.com

+1.803.547.7288 844.385.9840

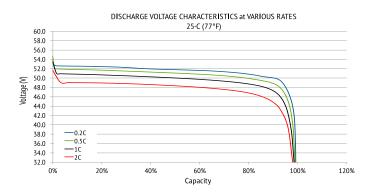
1433 Dave Lyle Blvd Rock Hill, SC 29730, US

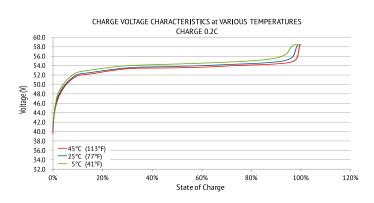


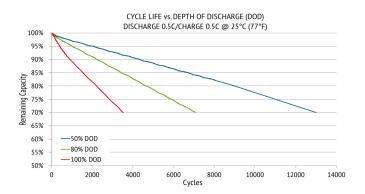
RB100-LT

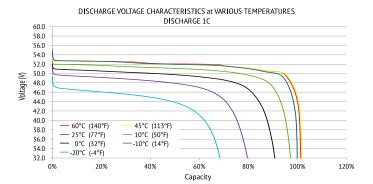


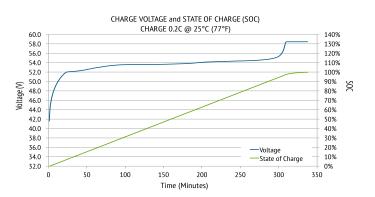
Group: 31

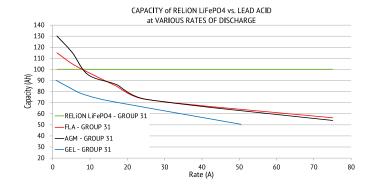














B100LTDS07.23.2019

© 2019 Relion Battery, LLC. All rights reserved. Relion Battery is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Relion Battery reserves the right to make adjustments to this publication at any time, without notice or obligation.

relionbattery.com

+1.803.547.7288 844.385.9840 1433 Dave Lyle Blvd Rock Hill, SC 29730, US

