





LITHIUM IRON PHOSPHATE BATTERY

12.8 V
20 Ah
48 min
256 Wh
≤60 mΩ @ 50% SOC
99%
<3% per Month
3

DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	50 A
Peak Discharge Current	90 A (4 s ±1 s)
BMS Discharge Current Cut-Off	140 A ±20 A (12 ±5 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (20 ±5 ms)
Reconnect Voltage	9 V ±1.32 V (2.25 ±0.33 vpc)
Short Circuit Protection	200-600 μs

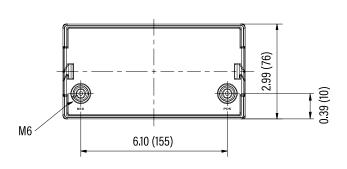
TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 113 °F (0 to 45 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	122 °F (50 °C)

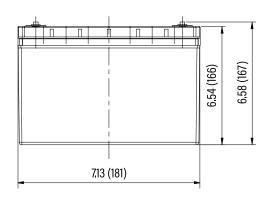
MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	7.1 x 3.0 x 6.6" 181 x 76 x 166.5 mm
Weight	6.1 lbs (2.75 kg)
Terminal Type	Flag Terminal
Terminal Torque	35 - 44 in-lbs (4 - 5 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄
CHARGE SPECIFICATIONS	
Recommended Charge Current	10 A

CHARGE SPECIFICATIONS	
Recommended Charge Current	10 A
Maximum Charge Current	50 A
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 \pm 0.025 vpc) (1.0 \pm 0.5 s)
Reconnect Voltage	15.2 V (3.8 ±0.050 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

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

DIMENSIONAL SPECIFICATIONS





© 2018 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.

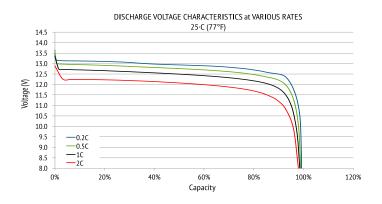


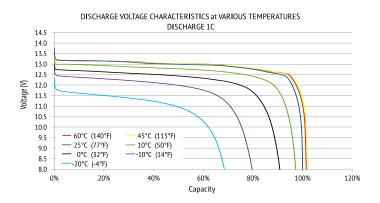


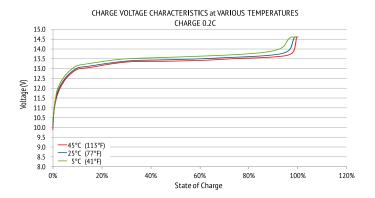


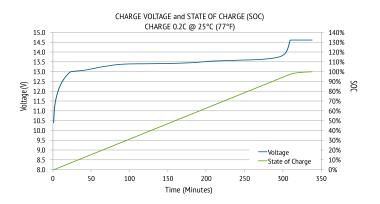


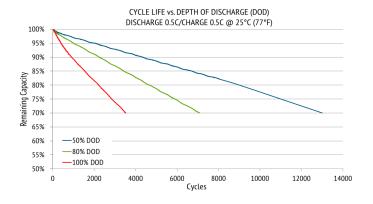
PERFORMANCE CHARACTERISTICS

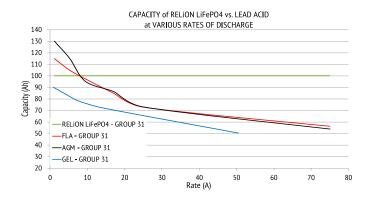
























RB20XDS06.27.2018

© 2018 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.