

RB35



Group: U1

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	35 Ah
Capacity @ 25A	84 min
Energy	448 Wh
Resistance	50 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	3

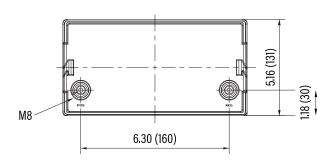
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	35 A
Peak Discharge Current	70 A (7.5 s ±2.5 s)
PCM Discharge Current Cut-Off	170 A (±20 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	8 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)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS Dimensions (L x W x H) 7.7 x 5.2 x 6.7" 195 x 131 x 171

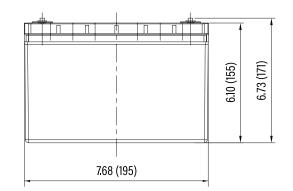
Dimensions (L x W x H)	195 x 131 x 171 mm
Weight	11 lbs (4.8 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO4

CHARGE SPECIFICATIONS

Recommended Charge Current	17.5 A
Maximum Charge Current	35 A
PCM Charge Current Cut-Off	170 A (±20 A)
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.2 V
Reconnect Voltage	14.4 V
Balancing Voltage	14.4 V

COMPLIANCE SPECIFICATIONS

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

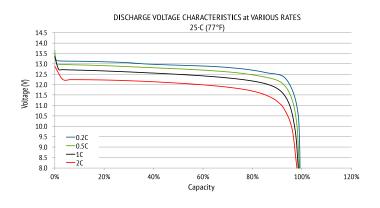


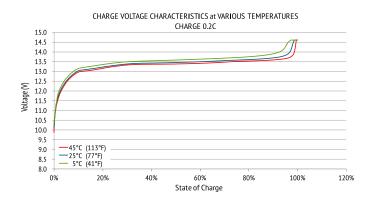
© 2017 Relion Battery, LLC. All rights reserved. Relion Battery is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Relion Battery reserves the right to make adjustments to this publication at any time, without notice or obligation.

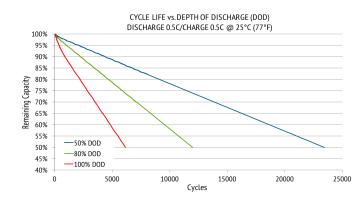


RB35

PERFORMANCE CHARACTERISTICS





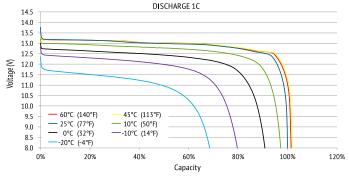


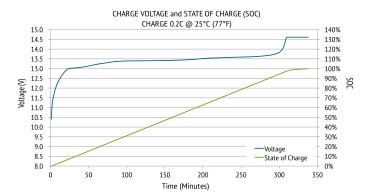


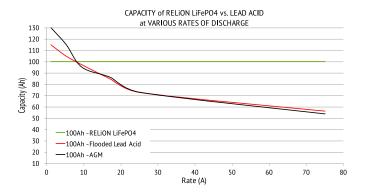


Group: U1

DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES









© 2017 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.