

## **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

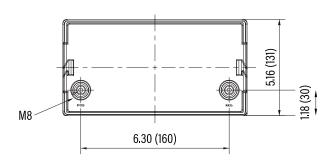
### **DISCHARGE SPECIFICATIONS**

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 SPECIFICATIONSDimensions (L x W x H)7.7 x 5.2 x 6.7"<br/>195 x 131 x 171 mmWeight11 lbs (4.8 kg)Terminal TypeM8Terminal Torque80 - 100 in-lbs (9 - 11 N-m)

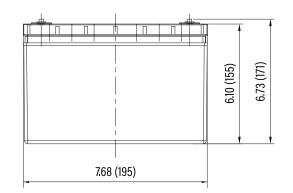
i o i i i i i i i i i i i i i i i i i i	
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO4

### **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

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	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

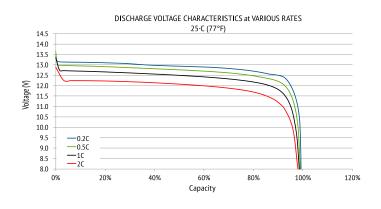
+1.803.547.7288 844.385.9840 9868 Harrisburg Road Fort Mill, SC 29707, US

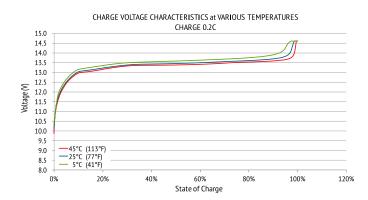


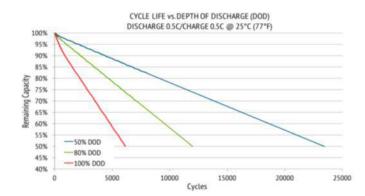


## **RB35**

### **PERFORMANCE CHARACTERISTICS**



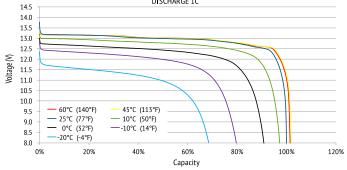


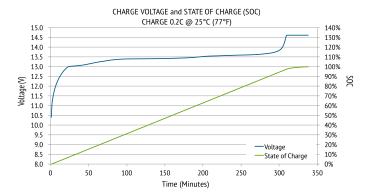


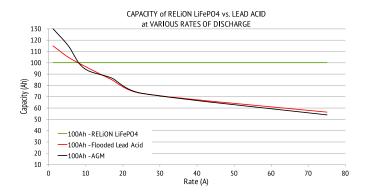


### Group: U1

DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES DISCHARGE 1C









RB35DS06.11.2017

relionbattery.com

**F**.

IEC

CE

**UN38,3** 

+1.803.547.7288 844.385.9840 9868 Harrisburg Road Fort Mill, SC 29707, US Sector 1