

# RB35-X



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	1

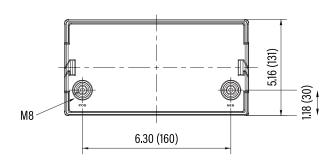
### **DISCHARGE SPECIFICATIONS**

Maximum Continuous Discharge Current	70 A
Peak Discharge Current	100 A (7.5 s ±2.5 s)
PCM Discharge Current Cut-Off	160 A (±20 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	8 V
Reconnect Voltage	7.7 - 9.6 V
	0.0 1
Short Circuit Protection	200-800 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	167 °F (75 °C)

### **DIMENSIONAL SPECIFICATIONS**



## **MECHANICAL** SPECIFICATIONS

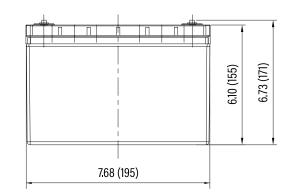
Dimensions (L x W x H)	7.7 x 5.2 x 6.7" 195 x 131 x 171 mm
Weight	11.4 lbs (5.17 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO₄

### **CHARGE** SPECIFICATIONS

Recommended Charge Current	17.5 A
Maximum Charge Current	70 A
PCM Charge Current Cut-Off	160 A (±20 A)
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.6 V
Reconnect Voltage	15.2 V
Balancing Voltage	14.4 V

### **COMPLIANCE** SPECIFICATIONS

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



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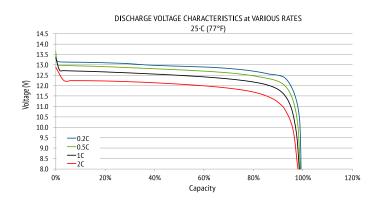
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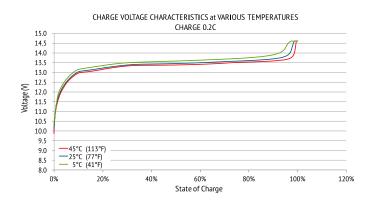


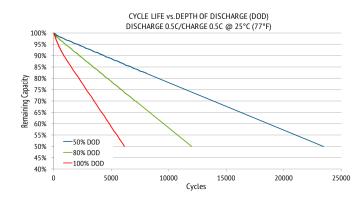


# **RB35-X**

## **PERFORMANCE** CHARACTERISTICS



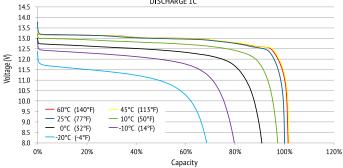


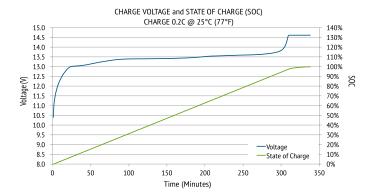


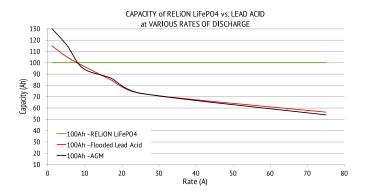


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DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES DISCHARGE 1C









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