

# **RB300**

# LITHIUM IRON PHOSPHATE BATTERY

<b>ELECTR</b>	ICAL	SPFCI	FICAT	IONS
			110/11	10110

Nominal Voltage	12.8 V
Nominal Capacity	300 Ah
Capacity @ 25A	720 min
Energy	3840 Wh
Resistance	30 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	6

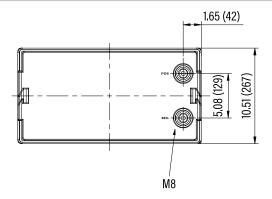
#### **DISCHARGE SPECIFICATIONS**

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (7.5 s ±2.5 s)
PCM Discharge Current Cut-Off	280 A (±50 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	8 V
Reconnect Voltage	9.2 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

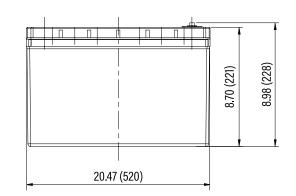
Dimensions (L x W x H)	20.5 x 10.5 x 9.0" 520 x 267 x 228 mm	
Weight	83 lbs (37.5 kg)	
Terminal Type	M8	
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)	
Case Material	ABS	
Enclosure Protection	IP56	
Cell Type - Chemistry	Cylindrical - LiFePO <sub>4</sub>	

#### **CHARGE** SPECIFICATIONS

Recommended Charge Current	50 A
Maximum Charge Current	100 A
PCM Charge Current Cut-Off	280 A (±50 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) UN38.3 (battery) UL1642 & IEC2133 (cells)
Shipping Classification	UN 3480, CLASS 9



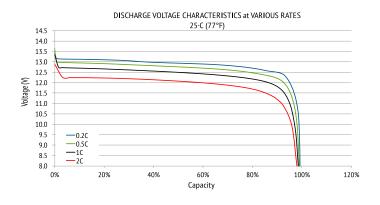
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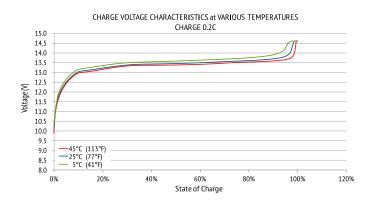


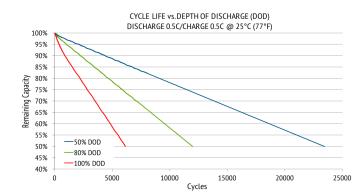
# **RB300**

### Group: 8D

#### **PERFORMANCE** CHARACTERISTICS



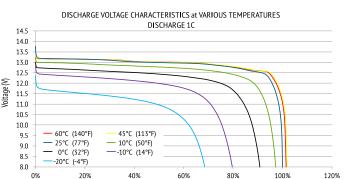




**F**.

CE

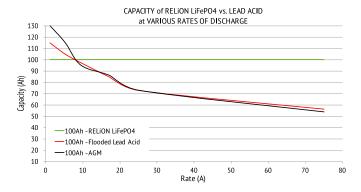
**UN38,3** 



Capacity

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CHARGE VOLTAGE and STATE OF CHARGE (SOC) CHARGE 0.2C @ 25°C (77°F) 140% 15.0 130% 14.5 120% 14.0 13.5 110% 13.0 100% 12.5 90% SOC Voltage (V) 12.0 80% 11.5 70% 11.0 60% 105 50% 10.0 40% 9.5 30% 9.0 20% 8.5 -State of Charge 10% 8.0 0% 0 50 100 150 200 250 300 350 Time (Minutes)





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