

RB300



Coastal Climate Control, Inc. www.CoastalClimateControl.com - info@CoastalClimateControl.com 301-352-5738 - Annapolis MD USA

Group 8D

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

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)

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 ₄

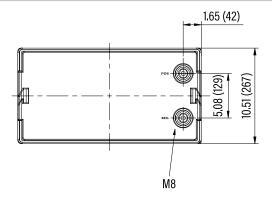
CHARGE SPECIFICATIONS

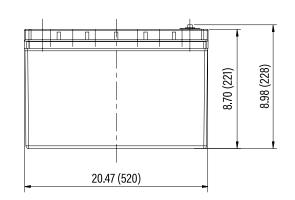
Recommended Charge Current	50 A
Maximum Charge Current	100 A
PCM Charge Current Cut-Off	280 A (±50 A)
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.6 V
Reconnect Voltage	15.2 V
Balancing Voltage	14.4 V

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC2133 (cells)
Shipping Classification	UN 3480, CLASS 9

DIMENSIONAL SPECIFICATIONS





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relionbattery.com

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





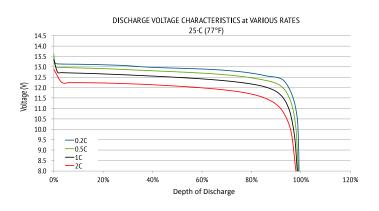


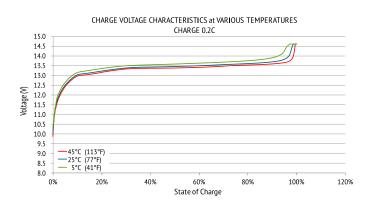
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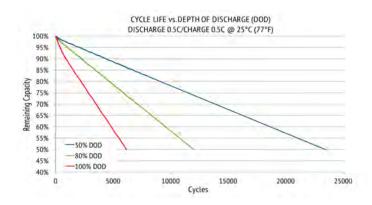
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PERFORMANCE CHARACTERISTICS

RB300

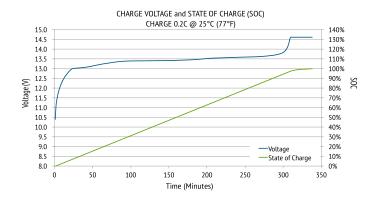


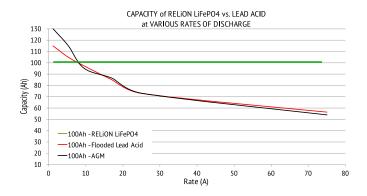




DISCHARGE 1C 14.5 14.0 13.5 13.0 12.5 12.0 Voltage (V) 11.5 11.0 10.5 10.0 60°C (140°F) 45°C (113°F) 9.5 25°C (77°F) - 10°C (50°F) 9.0 — 0°C (32°F) 8.5 -20°C (-4°F) 8.0 0% 100% 20% 40% 60% 80% 120% Depth of Discharge

DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES







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UN38.3 (E 🔊 🛄

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