

RB300-HP Group: 8D

## **LITHIUM IRON PHOSPHATE BATTERY**

<b>ELECTRICAL</b> 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	1

DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	100 A
Peak Discharge Current	800 A (2.0 s)
PCM Discharge Current Cut-Off	1000 A (±100 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	9.2 V
Reconnect Voltage	10 V
Short Circuit Protection	200-600 μs

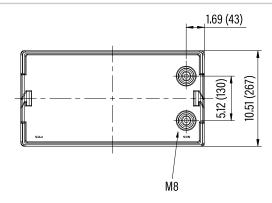
TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 131 °F (0 to 55 °C)
Storage Temperature	-4 to 140 °F (-20 to 60 °C)
PCM High Temperature Cut-Off	176 °F (80 °C)

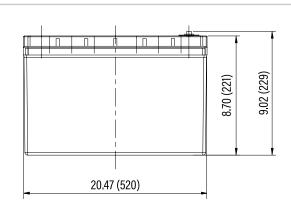
MECHANICAL SPECIFICATIONS	005 405 00"
Dimensions (L x W x H)	20.5 x 10.5 x 9.0"
,	520 x 267 x 229 mm
Weight	83 lbs (37.5 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO₄
CHARGE SPECIFICATIONS	
Recommended Charge Current	50 A

CHARGE SPECIFICATIONS		
Recommended Charge Current	50 A	
Maximum Charge Current	100 A	
PCM Charge Current Cut-Off	1000 A (±100 A)	
Recommended Charge Voltage	14.2 V - 14.6 V	
PCM Charge Voltage Cut-Off	15.4 V	
Reconnect Voltage	14.6 V	
Balancing Voltage	14.4 V	

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

## **DIMENSIONAL SPECIFICATIONS**





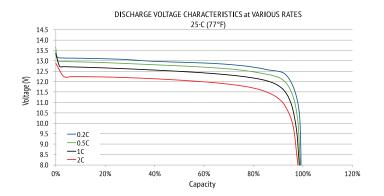
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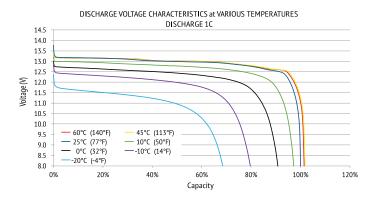


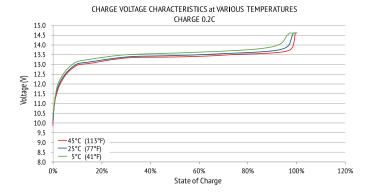


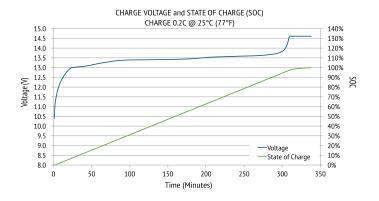
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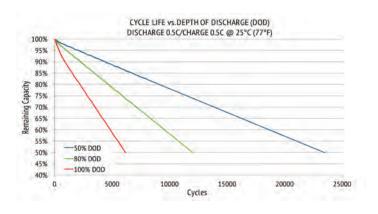
## **PERFORMANCE CHARACTERISTICS**

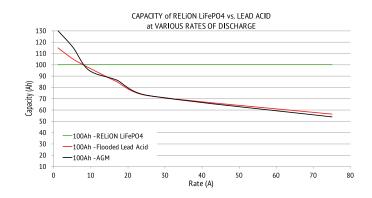












**UN38.3** 











RB300DS06.02.2017