



# RB300-HP

Voltage: 12.8V | Capacity: 300 Ah | Energy: 3840 Wh | Group: 8D

LITHIUM IRON PHOSPHATE BATTERY **LiFePO<sub>4</sub>**

## ELECTRICAL SPECIFICATIONS

|                           |                  |
|---------------------------|------------------|
| Nominal Voltage           | 12.8 V           |
| Nominal Capacity          | 300 Ah           |
| Capacity @ 25A            | 720 min          |
| Resistance                | ≤30 mΩ @ 50% SOC |
| Efficiency                | 99%              |
| Self Discharge            | <3% per Month    |
| Maximum Modules in Series | 1 (Single Use)   |

## DISCHARGE SPECIFICATIONS

|                                      |                                    |
|--------------------------------------|------------------------------------|
| Maximum Continuous Discharge Current | 100 A                              |
| Peak Discharge Current               | 800 A (2 s)                        |
| BMS Discharge Current Cut-Off        | 1000 A ±100 A (2.2 ±1 ms)          |
| Recommended Low Voltage Disconnect   | 11 V                               |
| BMS Discharge Voltage Cut-Off        | 9.2 V (2.3 ±0.08 vpc) (4.2 ±0.5 s) |
| Reconnect Voltage                    | 10 V (2.5 ±0.1 vpc)                |
| Short Circuit Protection             | 200-600 μs                         |

## TEMPERATURE SPECIFICATIONS

|                              |                             |
|------------------------------|-----------------------------|
| Discharge Temperature        | -4 to 140 °F (-20 to 60 °C) |
| Charge Temperature*          | -4 to 113 °F (-20 to 45 °C) |
| Storage Temperature          | 23 to 95 °F (-5 to 35 °C)   |
| BMS High Temperature Cut-Off | 176 °F (80 °C)              |
| Reconnect Temperature        | 122 °F (50 °C)              |

\*Refer to charge currents below 32°F (0°C)

## MECHANICAL SPECIFICATIONS

|                        |  |
|------------------------|--|
| Dimensions (L x W x H) | 20.6 x 10.5 x 8.7"<br>522 x 267 x 220 mm |
| Weight                 | 82.7 lbs (37.5 kg)                       |
| Terminal Type          | M8 x 1.25 x 2mm                          |
| Terminal Torque        | 80 - 100 in-lbs (9 - 11 N-m)             |
| Case Material          | ABS                                      |
| Enclosure Protection   | IP66                                     |
| Cell Type - Chemistry  | Cylindrical - LiFePO <sub>4</sub>        |

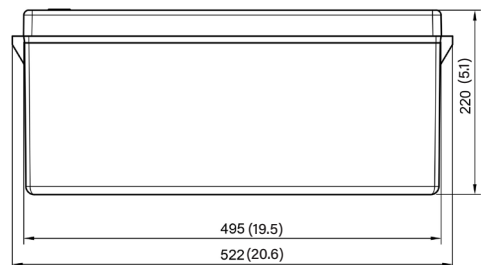
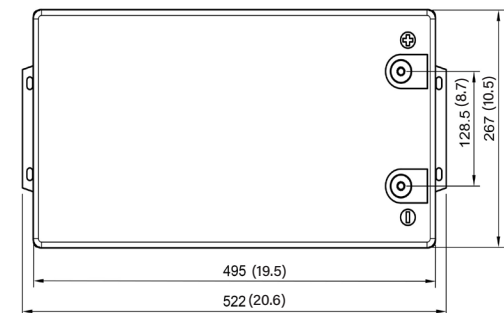
## CHARGE SPECIFICATIONS

|  |                                     |
|--|-------------------------------------|
| Recommended Charge Current                 | 15 A - 50 A                         |
| Maximum Charge Current                     | 100 A                               |
| Charge Current 14 to 32 °F (-10 to 0 °C)   | ≤0.1 C                              |
| Charge Current -4 to 14 °F (-20 to -10 °C) | ≤0.05 C                             |
| Recommended Charge Voltage                 | 14.2 V - 14.6 V                     |
| BMS Charge Voltage Cut-Off                 | 15.4 V (3.85 ±0.025 vpc) (1 ±0.2 s) |
| Reconnect Voltage                          | 14.6 V (3.65 ±0.05 vpc)             |
| Balancing Voltage                          | 14.4 V (3.6 ±0.025 vpc)             |

## COMPLIANCE SPECIFICATIONS

|                         |   |
|-------------------------|---|
| Certifications          | UN38.3 & CE (battery)<br>UL1642 (cells) (File# MH62098)<br>IEC62133 (cells) |
| Shipping Classification | UN 3480, CLASS 9  |

## DIMENSIONAL SPECIFICATIONS



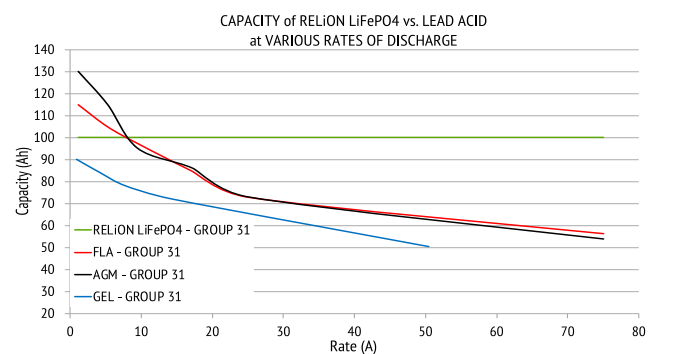
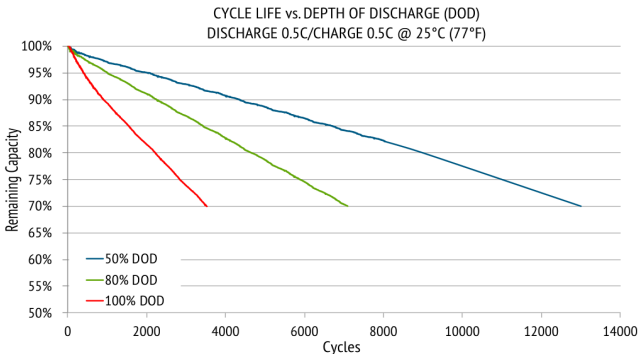
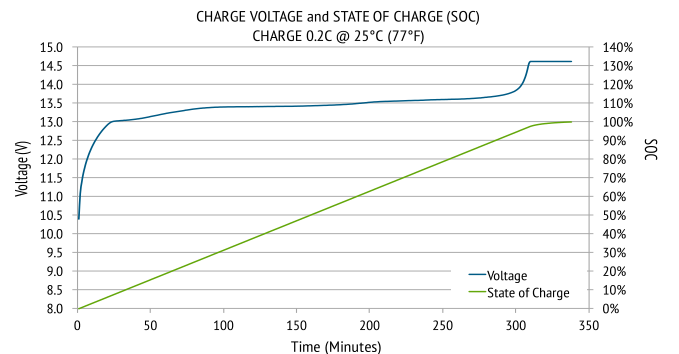
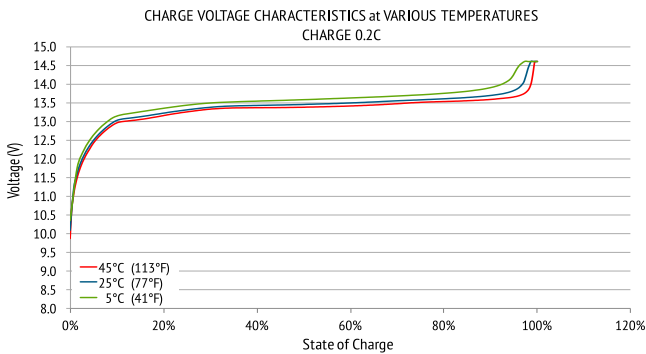
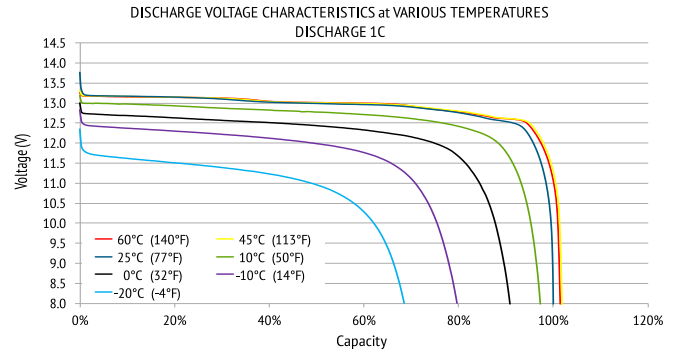


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## PERFORMANCE CHARACTERISTICS



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UN38.3

