





Group: 31

LITHIUM IRON PHOSPHATE BATTERY

| ELECTRICAL SPECIFICATIONS | |
|----------------------------------|------------------|
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 100 Ah |
| Capacity @ 25A | 240 min |
| Energy | 1280 Wh |
| Resistance | ≤30 mΩ @ 50% SOC |
| 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) |
| BMS Discharge Current Cut-Off | 280 A ±50 A (9 ±4 ms) |
| Recommended Low Voltage Disconnect | 11 V |
| BMS Discharge Voltage Cut-Off | 8 V (2.0 ±0.08 vpc) (140 ±60 ms) |
| Reconnect Voltage | 9.2 V (2.3 ±0.1 vpc) |
| Short Circuit Protection | 200-600 μs |

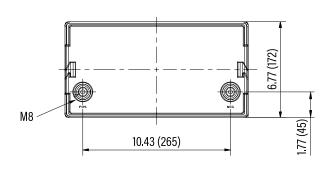
| TEMPERATURE SPECIFICATIONS | |
|------------------------------|-----------------------------|
| Discharge Temperature | -4 to 140 °F (-20 to 60 °C) |
| Charge Temperature | -4 to 113 °F (-20 to 45 °C) |
| Storage Temperature | 23 to 95 °F (-5 to 35 °C) |
| BMS High Temperature Cut-Off | 176 °F (80 °C) |
| Reconnect Temperature | 122 °F (50 °C) |
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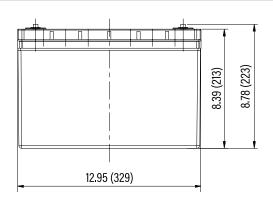
| MECHANICAL SPECIFICATION | IS |
|--------------------------|---|
| Dimensions (L x W x H) | 12.95 x 6.77 x 8.8" 329 x 172 x 223 mm |
| Weight | 30 lbs (13.5 kg) |
| Terminal Type | M8 |
| Terminal Torque | 80 - 100 in-lbs (9 - 11 N-m) |
| Case Material | ABS |
| Enclosure Protection | IP56 |
| Cell Type - Chemistry | Cylindrical - LiFePO ₄ |
| | |

| CHARGE SPECIFICATIONS | |
|------------------------------|--------------------------------------|
| Recommended Charge Current | 50 A |
| Maximum Charge Current | 100 A |
| Recommended Charge Voltage | 14.2 V - 14.6 V |
| BMS Charge Voltage Cut-Off | 15.6 V (3.9 ±0.025 vpc) (1.1 ±0.4 s) |
| Reconnect Voltage | 15.2 V (3.8 ±0.05 vpc) |
| Balancing Voltage | 14.4 V (3.6 ±0.025 vpc) |
| | |

| Certifications | CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells) |
|-------------------------|---|
| Shipping Classification | UN 3480, CLASS 9 |

DIMENSIONAL SPECIFICATIONS





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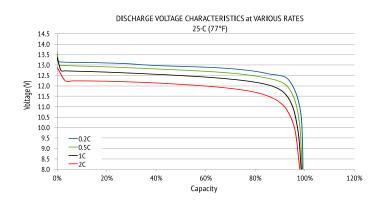


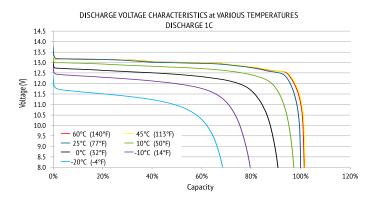


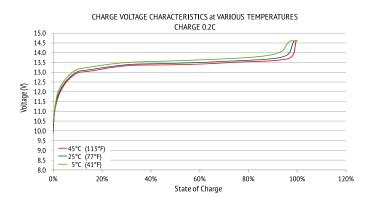


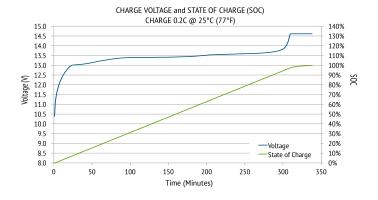
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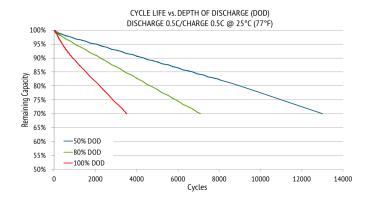
PERFORMANCE CHARACTERISTICS

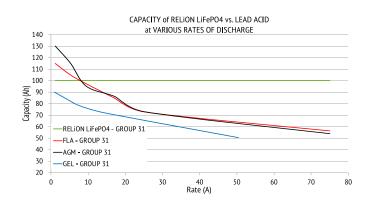












UN38.3











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