

RB24V50



Group: 31

LITHIUM IRON PHOSPHATE BATTERY

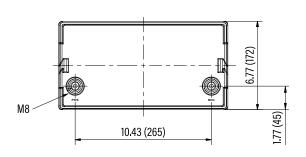
| ELECTRICAL SPECIFICATIONS | |
|----------------------------------|------------------|
| Nominal Voltage | 25.6 V |
| Nominal Capacity | 50 Ah |
| Capacity @ 25A | 120 min |
| Energy | 1280 Wh |
| Resistance | ≤60 mΩ @ 50% SOC |
| Efficiency | 99%; |
| Self Discharge | <3% per Month |
| Maximum Modules in Series | 1 (Single Use) |
| | |

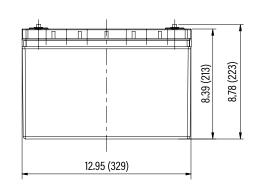
| DISCHARGE SPECIFICATIONS | |
|--------------------------------------|---------------------------------|
| Maximum Continuous Discharge Current | 50 A |
| Peak Discharge Current | 100 A (7.5 s ±2.5 s) |
| BMS Discharge Current Cut-Off | 215 A ±15 A (10 ±5 ms) |
| Recommended Low Voltage Disconnect | 22 V |
| BMS Discharge Voltage Cut-Off | 16 V (2.0 ±0.08 vpc) (20 ±6 ms) |
| Reconnect Voltage | 20 V (2.5 ±0.05 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 | -4 to 131 °F (-20 to 55 °C) |
| BMS High Temperature Cut-Off | 176 °F (80 °C) |
| Reconnect Temperature | 122 °F (50 °C) |
| | |

| MECHANICAL SPECIFICATIONS | |
|---|--|
| Dimensions (L x W x H) | 13.0 x 6.8 x 8.8" |
| | 329 x 172 x 223 mm |
| Weight | 29 lbs (13.2 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 | 2.5 A - 25 A |
| Maximum Charge Current | 50 A |
| Charge Current 32 to 14 °C $$ (0 to -10 °C) | ≤0.1 C |
| Charge Current -4 to 14 $^{\rm o}{\rm C}~$ (-20 to -10 $^{\rm o}{\rm C})$ | ≤0.05 C |
| Recommended Charge Voltage | 28.4 V - 29.2 V |
| BMS Charge Voltage Cut-Off | 31.2 V (3.9 \pm 0.025 vpc) (1.1 \pm 0.4 s) |
| Reconnect Voltage | 30.4 V (3.8 ±0.05 vpc) |
| Balancing Voltage | 28.8 V (3.6 vpc) |
| | |
| COMPLIANCE SPECIFICATIONS | |
| Certifications | CE (battery) |
| | UL1642 & IEC62133 (cells) |
| Shipping Classification | UN 3480, CLASS 9 |

DIMENSIONAL SPECIFICATIONS





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PERFORMANCE CHARACTERISTICS

