





RB40

Voltage: 12.8V | Capacity: 40 Ah | Energy: 512 Wh

LITHIUM IRON PHOSPHATE BATTERY LIFEPO4

| ELECTRICAL SPECIFICATIONS | | |
|---------------------------|------------------|--|
| Nominal Voltage | 12.8 V | |
| Nominal Capacity | 40 Ah | |
| Capacity @ 25A | 96 min | |
| Resistance | ≤50 mΩ @ 50% SOC | |
| Efficiency | 99% | |
| Self Discharge | <3% per Month | |
| Maximum Modules in Series | 4 | |

| DISCHARGE SPECIFICATIONS | | |
|-------------------------------------|----------------------------------|--|
| Maximum Continous Discharge Current | 40 A | |
| Peak Discharge Current | 80 A (7.5 s ±2.5 s) | |
| BMS Discharge Current Cut-Off | 170 A ±20 A (20 ±5 ms) | |
| Recommended Low Voltage Disconnect | 11 V | |
| BMS Discharge Voltage Cut-Off | 8 V (2.0 ±0.08 vpc) (140 ±60 ms) | |
| Reconnect Voltage | 10 V (2.5 ±0.1 vpc) | |
| Short Circuit Protection | 200-600 μs | |

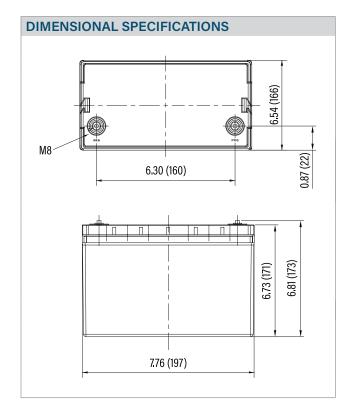
| TEMPERATURE SPECIFICATIONS | | |
|------------------------------|-----------------------------|--|
| Discharge Temperature | -4 to 140 °F (-20 to 60 °C) | |
| Charge Temperature* | -4 to 113 °F (-20 to 45 °C) | |
| Storage Temperature | 23 to 95 °F (-5 to 35 °C) | |
| BMS High Temperature Cut-Off | 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) | 7.8 x 6.5 x 6.8" 197 x 166 x 173 mm | |
| Weight | 11.9 lbs (5.4 kg) | |
| Terminal Type | M8 x 1.25 x 12mm | |
| Terminal Torque | 80 - 100 in-lbs (9 - 11 N-m) | |
| Case Material | ABS | |
| Enclosure Protection | IP66 | |
| Cell Type - Chemistry | Cylindrical - LiFePO ₄ | |

| CHARGE SPECIFICATIONS | | |
|-----------------------------------------------|-----------------------------------------|--|
| Recommended Charge Current | 2 A - 20 A | |
| Maximum Charge Current | 40 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 | 15.2 V (3.8 ±0.025 vpc) (1.1 ±0.4 s) | |
| Reconnect Voltage | 14.4 V (3.6 ±0.050 vpc) | |
| Balancing Voltage | 14.4 V (3.6 ±0.025 vpc) | |

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









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