

RB35



Group: U1

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

| Nominal Voltage | 12.8 V |
|---------------------------|---------------|
| Nominal Capacity | 35 Ah |
| Capacity @ 25A | 84 min |
| Energy | 448 Wh |
| Resistance | 50 mΩ |
| Efficiency | 99% |
| Self Discharge | <3% per Month |
| Maximum Modules in Series | 3 |
| | |

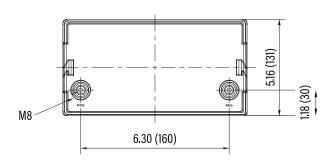
DISCHARGE SPECIFICATIONS

| Maximum Continuous Discharge Current | 35 A |
|--------------------------------------|---------------------|
| Peak Discharge Current | 70 A (7.5 s ±2.5 s) |
| PCM Discharge Current Cut-Off | 170 A (±20 A) |
| Recommended Low Voltage Disconnect | 11 V |
| PCM Discharge Voltage Cut-Off | 8 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) |

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS Dimensions (L x W x H) 7.7 x 5.2 x 6.7" 195 x 131 x 171

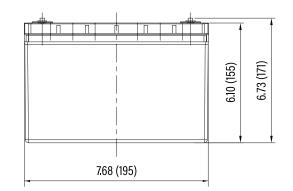
| Dimensions (L x W x H) | 195 x 131 x 171 mm |
|------------------------|------------------------------|
| Weight | 11 lbs (4.8 kg) |
| Terminal Type | M8 |
| Terminal Torque | 80 - 100 in-lbs (9 - 11 N-m) |
| Case Material | ABS |
| Enclosure Protection | IP56 |
| Cell Type - Chemistry | Cylindrical - LiFePO4 |

CHARGE SPECIFICATIONS

| Recommended Charge Current | 17.5 A |
|----------------------------|-----------------|
| Maximum Charge Current | 35 A |
| PCM Charge Current Cut-Off | 170 A (±20 A) |
| Recommended Charge Voltage | 14.2 V - 14.6 V |
| PCM Charge Voltage Cut-Off | 15.2 V |
| Reconnect Voltage | 14.4 V |
| Balancing Voltage | 14.4 V |
| | |

COMPLIANCE SPECIFICATIONS

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

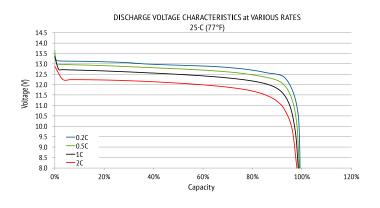


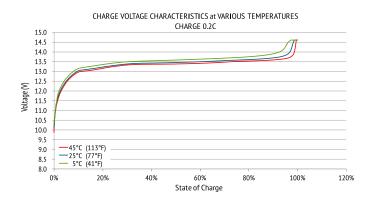
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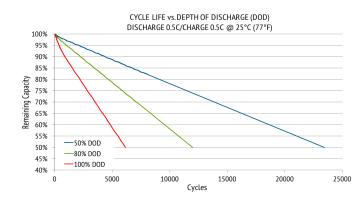


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PERFORMANCE CHARACTERISTICS





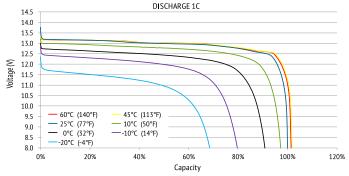


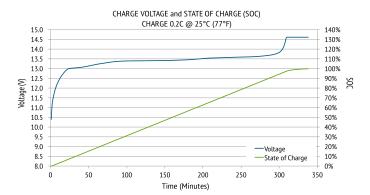


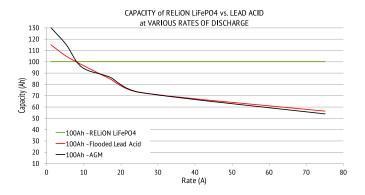


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DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES









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