LITHIUM IRON PHOSPHATE BATTERY

**ELECTRICAL SPECIFICATIONS**

- Nominal Voltage: 12.8 V
- Nominal Capacity: 300 Ah
- Capacity @ 25A: 720 min
- Energy: 3840 Wh
- Resistance: ≤30 mΩ @ 50% SOC
- Efficiency: 99%
- Self Discharge: <3% per Month
- Maximum Modules in Series: 6

**MECHANICAL SPECIFICATIONS**

- Dimensions (L x W x H): 20.5 x 10.5 x 9.0" 520 x 267 x 228 mm
- Weight: 83 lbs (37.5 kg)
- Terminal Type: M8
- Terminal Torque: 80 - 100 in-lbs (9 - 11 N-m)
- Case Material: ABS
- Enclosure Protection: IP56
- Cell Type - Chemistry: Cylindrical - LiFePO₄

**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

**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: 15.6 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)

**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)

**COMPLIANCE SPECIFICATIONS**

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

**DIMENSIONAL SPECIFICATIONS**

- 1.65 (42)
- 5.08 (129)
- 10.4 (267)
- 8.70 (221)
- 8.98 (230)

- 20.47 (520)