# 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
- **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)
- **PCM Discharge Current Cut-Off**: 280 A (±50 A)
- **Recommended Low Voltage Disconnect**: 11 V
- **PCM Discharge Voltage Cut-Off**: 8 V
- **Reconnect Voltage**: 9.2 V
- **Short Circuit Protection**: 200-600 µs

## Charge Specifications
- **Recommended Charge Current**: 50 A
- **Maximum Charge Current**: 100 A
- **PCM Charge Current Cut-Off**: 280 A (±50 A)
- **Recommended Charge Voltage**: 14.2 V - 14.6 V
- **PCM Charge Voltage Cut-Off**: 15.6 V
- **Reconnect Voltage**: 15.2 V
- **Balancing Voltage**: 14.4 V

## Temperature Specifications
- **Discharge Temperature**: -4 to 140 ºF (-20 to 60 ºC)
- **Charge Temperature**: 32 to 131 ºF (0 to 55 ºC)
- **Storage Temperature**: -4 to 140 ºF (-20 to 60 ºC)
- **PCM High Temperature Cut-Off**: 176 ºF (80 ºC)

## Mechanical Specifications
- **Dimensions (L x W x H)**: 20.5 x 10.5 x 9.0"
- **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

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

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