



# BATTERY PACK

## Technical Specifications



MODEL NO  
DOCUMENT CODE  
PUBLICATION DATE

: LFP-010-005K  
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## GENERAL SPECIFICATIONS



|                     |  |
|---------------------|--|
| Nominal Voltage     | 51.2 V DC  |
| Nominal Capacity    | 105 Ah   |
| Nominal Energy      | 5.4 kWh  |
| Material Properties | Aluminum   |
| Color               | Black  |
| Cycle Life          | 5000 cycles or 5 years (whichever comes first), 70% remaining capacity                         |
| Protection Class    | IP65   |
| Components          | Current Sensor, Cell Balancing System, State of Charge (SOC) Estimation, CAN Bus Communication |

## PHYSICAL SPECIFICATIONS



|                        |   |
|------------------------|---|
| Dimensions (L × W × H) | 15.75 × 15.39 × 9.61 in   |
| Weight                 | 99.21 lb  |
| Mounting               | Horizontal  |
| Sockets                | HV+ Power Socket, HV- Power Socket, Button Control Socket, Communication Socket |

## OPERATIONAL SPECIFICATIONS



|                       |                            |
|-----------------------|----------------------------|
| Operating Temperature | -4°F – +131°F              |
| Storage Temperature   | -4 °F – +77 °F (6 Months)  |
|                       | -4 °F – +113 °F (3 Months) |
|                       | -4 °F – +140 °F (1 Month)  |
| Storage Voltage       | ≤ 30 % SOC, 51.2 V         |
| Transport Voltage     | ≤ 30 % SOC, 51.2 V         |
| Maximum Humidity      | 80 %                       |

## SYSTEM AND PERFORMANCE SPECIFICATIONS



|                              |                                     |
|------------------------------|-------------------------------------|
| Chemistry                    | LFP                                 |
| Series                       | 16                                  |
| Parallel                     | 1                                   |
| Discharge (25°C)             | 150 A Continuous / 200 A Max. (5 s) |
| Regenerative Charging (25°C) | 50 A Continuous / 200 A Max. (5 s)  |
| Max. Charging Current Limit  | 50 A                                |
| Fuse                         | 500 A                               |
| Voltage                      | Nominal 51.2 V                      |
|                              | Min. Limit 41.6 V                   |
|                              | Max. Limit 58.4 V                   |



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