

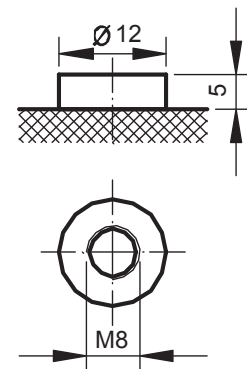
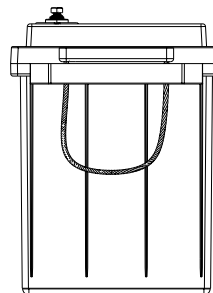
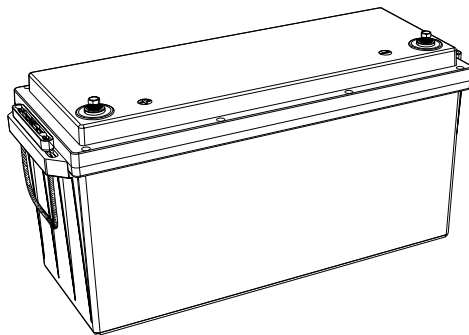
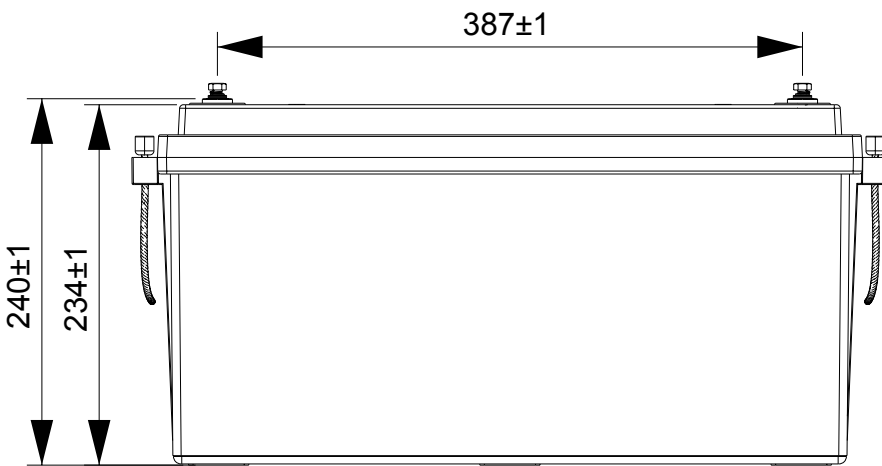
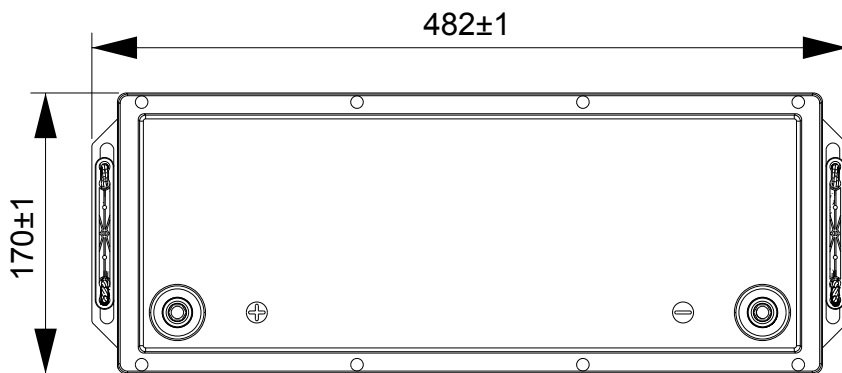
# HUB LiON



LITHIUM  
ION BATTERY

HUB-12.8V-200-LFP

## TECHNICAL DRAWING



## BENEFITS AND ADVANTAGES

### Start at the Core

- High Reliability
- Fast and Efficient charge/discharge cycles
- Deep Discharge capability
- Fully Recycle capability
- Light weight
- Environmentally friendly
- UL Approved Cells
- Safety UN38.3 approved
- UN3480, CLASS 9

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## ELECTRICAL SPECIFICATIONS

|                                 |            |
|---------------------------------|------------|
| Nominal Voltage                 | 12.8V      |
| Amp Hour Capacity               | 200AH      |
| Reserve Capacity @ 25A          | 480 min    |
| Energy Density                  | 25600Wh    |
| Resistance - Milliohms          | < 5        |
| Efficiency - round trip         | > 99.5%    |
| Self Discharge per Month        | < 3%       |
| **Max 4 - series connections    | 12-48V     |
| **Max 16 - parallel connections | 200-3200AH |

\*\*DO NOT configure series and parallel connections simultaneously

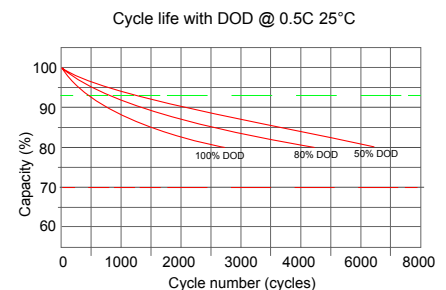
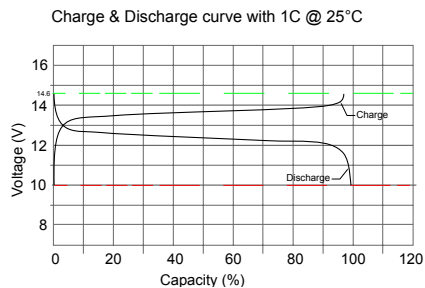
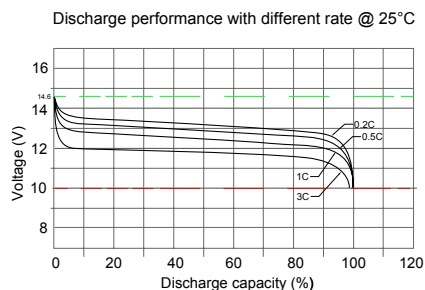
## TEMPERATURE SPECIFICATIONS

|                       |              |
|-----------------------|--------------|
| Discharge Temperature | (-20 to 60C) |
| Charge Temperature    | (-20 to 45C) |
| Storage Temperature   | (-5 to 35C)  |
| BMS High Temp Cut Off | 80C          |
| BMS Reconnect Temp    | 50C          |

## CHARGE SPECIFICATIONS

|                              |              |
|------------------------------|--------------|
| Recommend Charge current     | 10A - 100A   |
| Max Charge current           | 100A         |
| Charge current (0 to -10C)   | <0.1C        |
| Charge current (-20 to -10C) | <0.05C       |
| Recommended Charge voltage   | 14.2 - 14.6V |
| BMS High voltage disconnect  | 15.0V        |
| BMS High voltage reconnect   | 14.6V        |
| Balancing voltage            | ≥3.20V/cell  |

## PERFORMANCE CHARACTERISTICS



## DISCHARGE SPECIFICATIONS

|                            |                    |
|----------------------------|--------------------|
| Max Cont Discharge current | 200A               |
| Peak Discharge Current 3C  | 600A               |
| BMS Current Cut Off (10S)  | >240A              |
| BMS Current Cut Off (3S)   | >300A              |
| BMS Current Cut Off        | Load Short circuit |
| BMS Low Voltage Cut Off    | 8.8V               |
| BMS Low Reconnect Voltage  | 12V                |

## MECHANICAL SPECIFICATIONS

|                       |                      |
|-----------------------|----------------------|
| Dimensions            | 18.97 x 6.69x 9.44in |
| L x W x H             | 482 x 170 x 240mm    |
| Weight                | 48.53lbs (22KG)      |
| Terminal Type         | M8                   |
| Terminal Torque       | 90 in lbs (10NM)     |
| Case Material         | ABS                  |
| Case IP Rating        | IP56                 |
| Cell Type - Chemistry | LiFePO4              |
| Cell Type             | Prismatic            |

## HEATING CIRCUIT

|                               |             |
|-------------------------------|-------------|
| Operating Range               | (-20 to 5C) |
| Heating Circuit Engages at    | ≤ 0C        |
| Heating Circuit Disengages at | +5C         |

## SAFETY TESTED

|                         |   |
|-------------------------|---|
| Safety Ratings          | CB / CE<br>UN38.3 @ cell<br>UL1973 @ cell |
| Shipping Classification | UN3480, CLASS 9                           |