

### LiFePO<sub>4</sub> Battery

Warranty

**5**  
years

 **+ BMS**

LFP/LiFePO<sub>4</sub> (Lithium Ferrophosphate) batteries are one of the safest varieties of lithium ion batteries. The technology is characterized by high energy density. LiFePO<sub>4</sub> batteries stand out durability, long service life, high efficiency electricity, work safety and increased resistance to improper operating conditions



- marine, boats, yachts
- campers, caravans
- golf-carts, wheelchairs
- energy storage
- solar powered systems
- wind farms
- fire and security system
- uninterruptible power supplies
- emergency light systems
- mobile and portable equipment -cycle use



Long service life



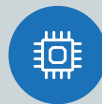
No memory effect



Environmental impact



High current resistance



Security and BMS control



Flexible use



Low weight



High operating temperature range



\*Battery monitoring

**Electrical Parameters**

|  |                    |
|--|--------------------|
| Nominal Voltage                            | 25.6 V             |
| Nominal Capacity                           | 50 Ah              |
| Energy                                     | 1280Wh             |
| Internal Resistance                        | ≤ 90mΩ             |
| Cycle Life                                 | >2000 cycles @0.2C |
| Self-Discharge                             | 2-3% per Month     |
| Max. Module in Series (S)/<br>Parallel (P) | 2S/4P              |

**Charge Parameters**

|                            |       |
|----------------------------|-------|
| Charge Method              | CC-CV |
| Charge Voltage             | 29.2V |
| Standby Charge             | 27.6V |
| Recommended Current Charge | 10A   |
| Max. Current Charge        | 25A   |
| BMS Charge ut-off Voltage  | >30V  |

**Discharge Parameters**

|                               |       |
|-------------------------------|-------|
| Max. Discharge Current        | ≤ 50A |
| Pulse Discharge Current <1s   | 100A  |
| Recommended Volt. Disconnect  | 20V   |
| BMS Discharge cut-off Voltage | ~19V  |
| BMS Reconnect Voltage         | 20V   |

**Mechanical Parameters**

|                        |   |
|------------------------|---|
| Dimensions (L x W x H) | 260 x 167 x 212 [mm]                          |
| Weight                 | 12.7 kg                                       |
| Terminal Type          | M8  |
| Case Material          | ABS   |
| Case IP Rating         | IP56  |
| Technology             | LiFePO4                                       |
| Accessories            | Bluetooth (option)<br>SOC Display LCD(option) |

**Thermal Parameters**

|                              |             |
|------------------------------|-------------|
| Discharge Temperature        | -20 do 60°C |
| Charge Temperature           | 0 do 45°C   |
| Storage Temperature          | 0 do 40°C   |
| BMS High Temperatura cut-off | ~70°C       |

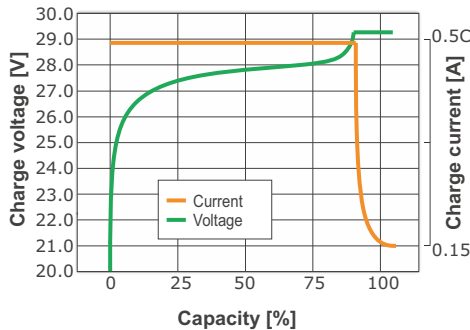
**Certificates**

CE

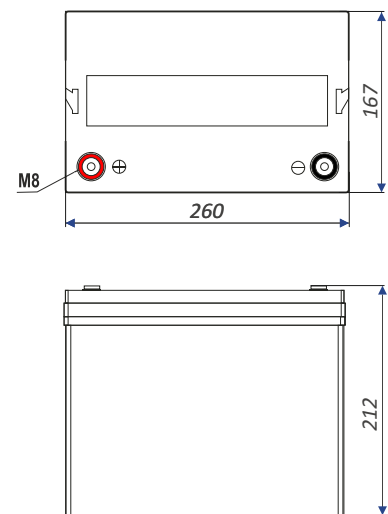
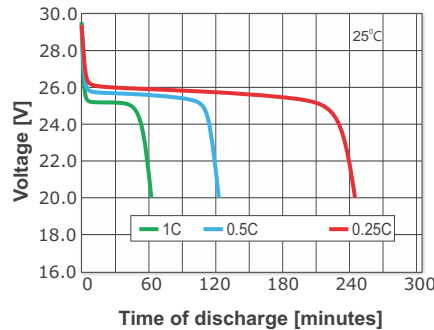
**Characteristics**

**Dimensions [mm]**

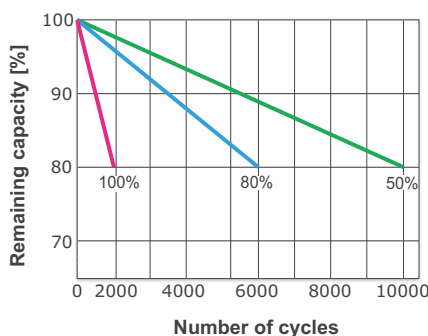
**Charge Characteristics**



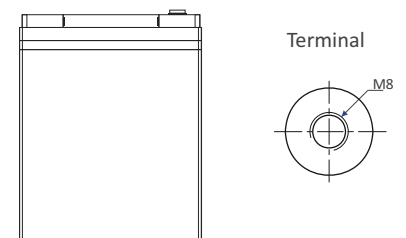
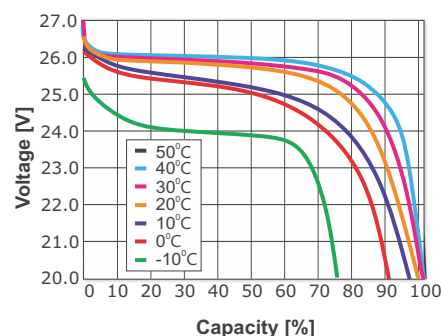
**Discharge Characteristics**



**Different DOD Discharge Cycle Life Curve @0.2C**



**Discharge Curves at Different Temperature**



Tolerance: +/- 2mm;

