

Model: **12.8V 80Ah**

LFP Series

LiFePO₄ Battery

Warranty

5
years

 **+ BMS**

LFP/LiFePO₄ (Lithium Ferrophosphate) batteries are one of the safest varieties of lithium ion batteries. The technology is characterized by high energy density. LiFePO₄ 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



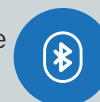
Flexible use



Low weight



High operating temperature range



*Battery monitoring

Electrical Parameters

| | |
|--|--------------------|
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 80 Ah |
| Energy | 1024Wh |
| Internal Resistance | ≤ 40mΩ |
| Cycle Life | >2000 cycles @0.2C |
| Self-Discharge | 2-3% per Month |
| Max. Module in Series (S)/ Parallel (P) | 4S/4P |

Charge Parameters

| | |
|----------------------------|-------|
| Charge Method | CC-CV |
| Charge Voltage | 14.4V |
| Standby Charge | 13.8V |
| Recommended Current Charge | 16A |
| Max. Current Charge | 40A |
| BMS Charge ut-off Voltage | >15V |

Discharge Parameters

| | |
|-------------------------------|-------|
| Max. Discharge Current | ≤ 80A |
| Pulse Discharge Current <1s | 160A |
| Recommended Volt. Disconnect | 10V |
| BMS Discharge cut-off Voltage | ~9.5V |
| BMS Reconnect Voltage | 10V |

Mechanical Parameters

| | |
|------------------------|---|
| Dimensions (L x W x H) | 260 x 167 x 212 [mm] |
| Weight | 12.0 kg |
| Terminal Type | M8 |
| Case Material | ABS |
| Case IP Rating | IP56 |
| Technology | LiFePO4 |
| Accessories | Bluetooth (option) 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 |

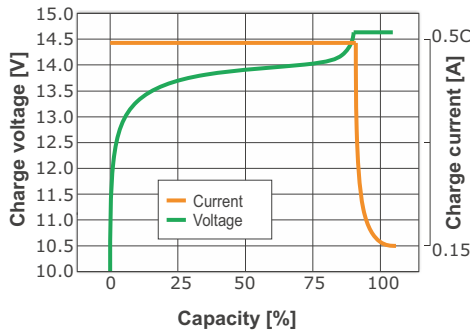
Certificates

CE

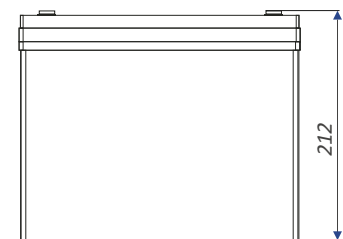
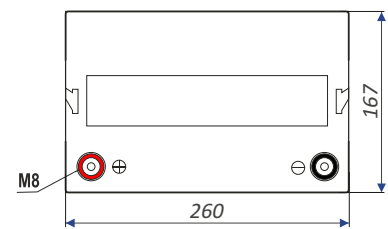
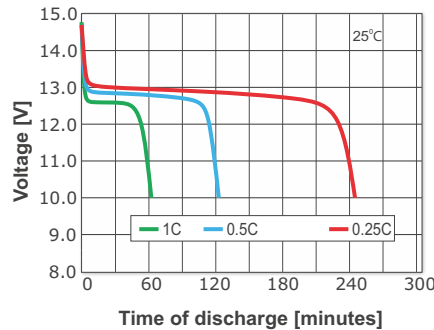
Characteristics

Dimensions [mm]

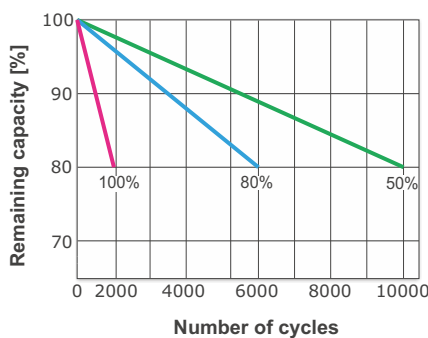
Charge Characteristics



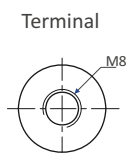
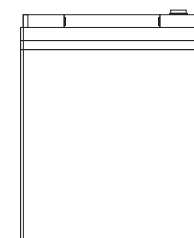
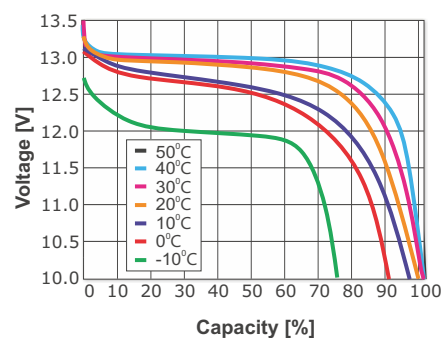
Discharge Characteristics



Different DOD Discharge Cycle Life Curve @0.2C



Discharge Curves at Different Temperature



Tolerance: +/- 2mm;

