

Model: **12.8V 46Ah**

**LFP Series**

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



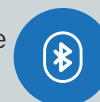
Flexible use



Low weight



High operating temperature range



\*Battery monitoring

**Electrical Parameters**

Nominal Voltage	12.8 V
Nominal Capacity	46 Ah
Energy	590Wh
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	9A
Max. Current Charge	23A
BMS Charge ut-off Voltage	>15V

**Discharge Parameters**

Max. Discharge Current	≤ 46A
Pulse Discharge Current <1s	90A
Recommended Volt. Disconnect	10V
BMS Discharge cut-off Voltage	~9.5V
BMS Reconnect Voltage	10V

**Mechanical Parameters**

Dimensions (L x W x H)	195 x 165 x 175 [mm]
Weight	5.9 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

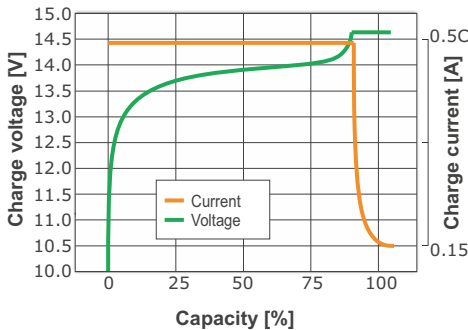
**Certificates**

CE

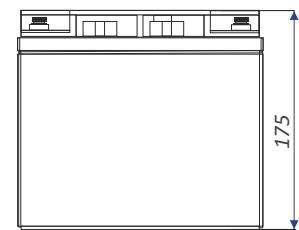
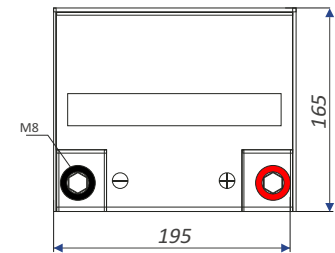
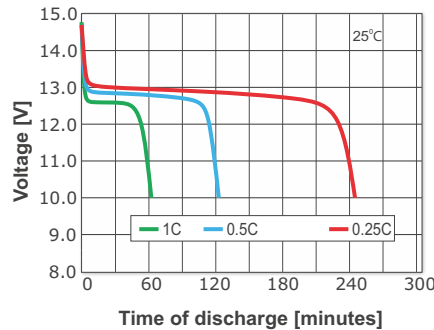
**Characteristics**

**Dimensions [mm]**

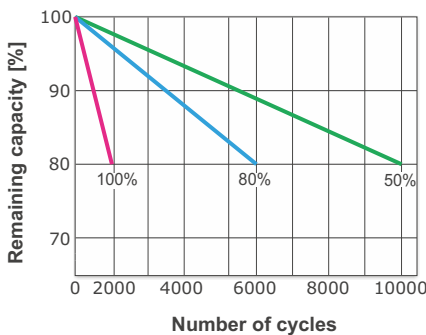
**Charge Characteristics**



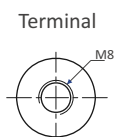
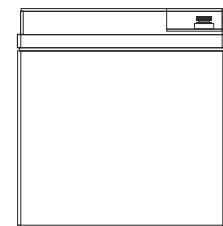
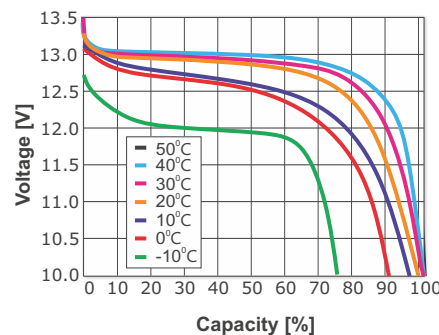
**Discharge Characteristics**



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



**Discharge Curves at Different Temperature**



Tolerance: +/- 2mm;

