

## Lithium Iron Phosphate Battery

### Overview

The VOLTAI- 25.6V100Ah rechargeable lithium battery is optimized for low rate application which requires high energy density.

### Features

- LiFePO4 battery, more stable and safe .
- Intelligent BMS equipped inside to maintain the battery always work at best condition .
- Max. charge and discharge current as 200A which is specially designed for solar energy .
- With equalizer can balance each lithium cell voltage difference as small as 0.05V in a very short time .
- Excellent standby self-consumption as low as 4mA .
- Within VOLTAI solar inverter Modbus-485 communication protocol .
- Automatically output cut off after 30days no charge and discharge to ensure security , also can cut off output by manual operation .

### Battery Specification

#### Nominal Characteristics

Nominal Voltage /V	25.6
Nominal Capacity /Ah (25° C , 0.2C)	100

#### Mechanical characteristics

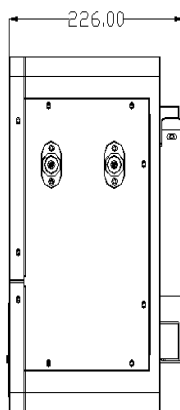
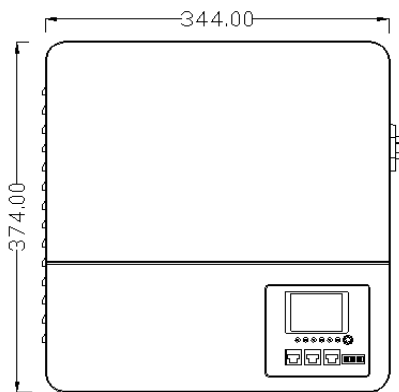
Weight (approximate)/Kg	33.2
Dimension L*W*H /mm	374*344*226
Terminal	M8

#### Electrical characteristics

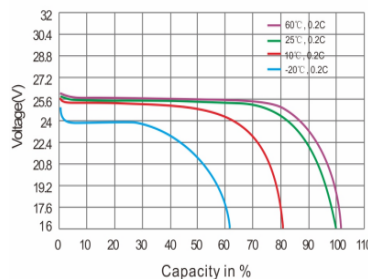
Voltage window/V	22.4 to 29.2
Float charge voltage/V	28.0
Max. continue discharge current/A	100
Max. pulse discharge current/A	200A 30Sec.
Max. continue charge current/A	50

#### Operating conditions

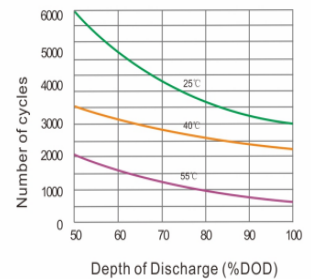
Cycle life (+25°C 0.2C 100%DOD)	> 3000 Cycles
Operating temperature	Discharge -10°C to 50°C Charge 0°C to 50°C
Storage temperature	0 to 30°C
Storage duration	6 months at 25°C
Safety standard	UN38.3,MSDS
IP Degree	IP20



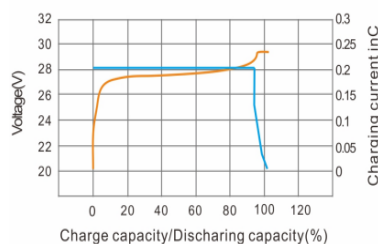
Dis charge curves under diffemet temperatures



Cycle life versus DOD and temperature at 0.2C



0.2C CC-CV charge charavteristic



Self-discharge characteristic

