

## Cylindrical Lithium Iron Phosphate Battery

### OPT-26650F

#### Brief Introduction

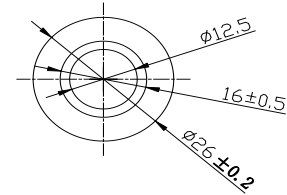
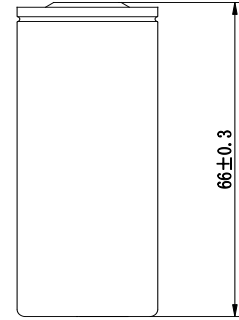
OptimumNano always develop and produce **32650** cells to or assemble battery packs to satisfy the requirements of high performance and operational reliability of our customers. We also have the **14500/18650/22650/26650** cells to meet all your requirements.

#### Key Features

- Attractive cycle life
- Extended safety performance
- Wide operating temperature range
- Unrivalled high temperature performance
- Green energy without metal contaminant
- High capacity
- Steady output voltage
- Little self-discharge
- Double safety protection
- Withstanding very high level of vibrations and shocks

#### Safety Characteristics

- Over-charge/Over-discharge Ability to withstand over-charge/withstand over-discharge, and there is no fire, no exploding and work well
- Short circuit Ability to withstand short circuit, and there is no fire, no exploding
- Acupuncture Ability to withstand nail puncturing, and there is no fire, no exploding
- Thermal shock Ability to withstand thermal shock, and there is no fire, no exploding



#### Electrical Characteristics

Nominal Voltage	3.2V
Nominal Capacity (at 0.5C, 25 degC)	3Ah
Impedance (Max. at1000Hz)	≤15mΩ
Expected Cycle Life	More than 2000 cycles, with 1C charge and discharge rate, at 25 °C

#### Mechanical Characteristics

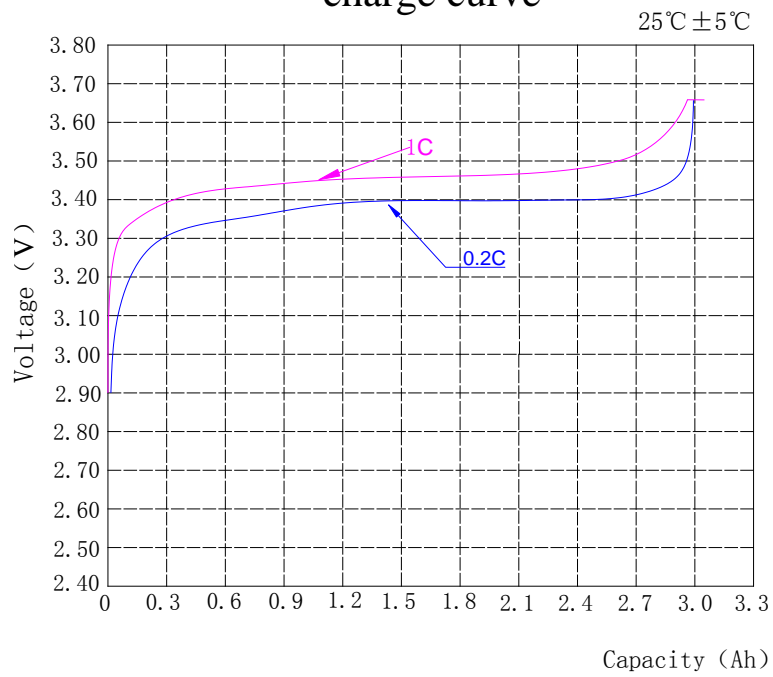
Diameter	26.0±0.02mm
Height	67.1±0.2mm
Weight	~88g

#### Operation Conditions

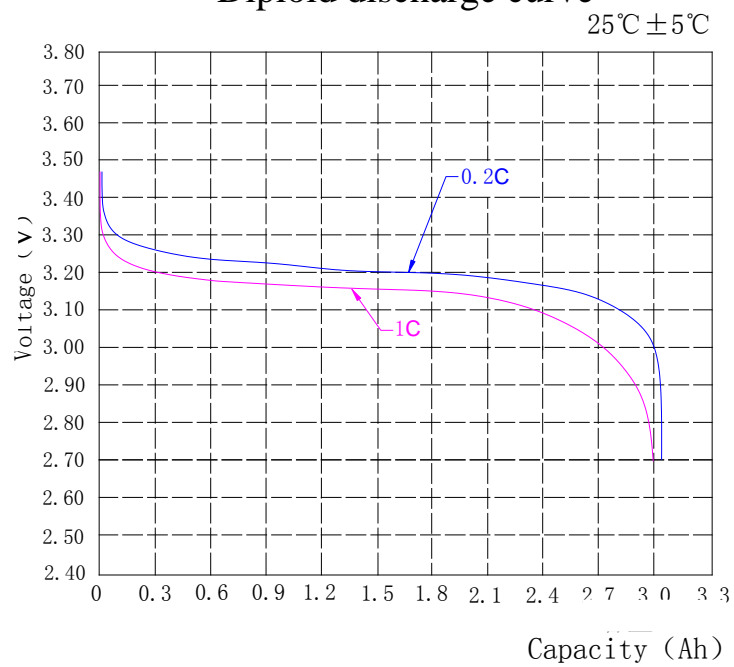
Charge Method	CC-CV
Max. Charge Voltage	3.65V
Continuous Charge Current	0.2C
Charge Temperature	0°C~45°C
Continuous Discharge Current	0.5C
Peak Instant Discharge Current(10 Seconds)	1C
Discharge Cut-off Voltage	2.5V
Discharge Temperature	-20°C~65°C
Storage Temperature	-20°C~40°C
Self Discharge (Stored at 50% SOC)	≤ 3%/month

## Typical Performance Curve

### charge curve



### Diploid discharge curve



## Storage and Transportation

1. Based on the character of cell, proper environment for transportation of LiFePO<sub>4</sub> battery pack need to be created to protect the battery.
2. During transportation, 50% SOC must be kept to ensure

that short circuit, appearance of liquid in the battery or immersion of battery in liquid never occur.

3. Battery should be kept at -20°C ~ 45°C in warehouse where it's dry, clean and well-ventilated.
4. During loading of battery, attention must be paid against dropping, turning over and serious stacking.

## Warnings and Tips

In order to prevent the battery leaking, getting hot and exploding, please pay attention to preventing measure as following:

### Warning!

- Never throw the battery into water, keep it under dry, shady and cool circumstance when not use.
- Never upside down the positive and negative.
- Never connect the positive and negative of battery with metal.
- Never ship or store the battery together with metal
- Never knock, throw or trample the battery.
- Never cut through the battery with nail or other edge tool.

### Tips!

- Never use or keep the battery under the high temperature. Otherwise it will cause battery heat, get into fire or lose some function and reduce the life. The proposed temperature for long-term storage is 10-45°C.
- Never throw the battery into fire or heating machine to avoid fire, explosion and environment pollution; scrap battery should be returned to the supplier and handled by the recycle station.
- Never use the battery under strong static and strong magnetic field, otherwise it will destroy the protecting device.
- If battery leaked, the electrolyte get into eyes, please don't knead, please wash eyes by water and send to hospital. Otherwise it will hurt eyes.

- If battery emit peculiar smell, heating, distortion or appear any unconventionality during using, storage or charging process, please take it out from device or charge and stop using.
- Never cut the battery in socket directly; please use the stated charger when charging.
- Check the voltage of battery and relevant connectors before using the battery. It can't be used until everything turns out to be normal.
- Prior to charging, fully check the insulativity, physical condition and ageing status, since breakage and ageing are never allowed; the pack voltage must not be less than the cutoff voltage, if not, it's abnormal and that battery needs to be labeled. The user should contact our Customer Service Dept and it can't be charged until repaired by our staff.
- The battery should be stored in 50% SOC. It needs to be charged once if out of use for as long as half a year.
- Clean the dirty electrode, if any, with a clean dry cloth, or poor contact or operation failure may occur.

## Contact US

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