

# LiFePO4 3.2v 70Ah 72Ah Lithium Ion Battery

Brand new Grade A LFP 3.2v 70ah/72ah prismatic LiFePO4 battery cell. There are several different dimensions and specifications for you to choose. And different terminals, screws and busbars are available. The 70ah/72ah LiFePO4 battery cells comply with MSDS, UN38.3, UL, CB, CE and other certificates.

## 3.2v 70Ah/72Ah Lithium Ion Battery Datasheet



Nominal Voltage: 3.2v

Nominal Capacity: 70Ah/72Ah

Cell Weight: 1.33/1.4±0.05 kg

Work Voltage: 2.0-3.65V

Internal Resistance: ≤0.6mΩ

Dimension: 148.44\*39.72\*105.11/113.61mm

Energy Density: 170Wh/kg

Standard Charge/Discharge Current: 0.5C/0.5C

Operating Temperature: Discharge : -30-60°C, Charge: 0-60°C

Cycle Life: ≥6000 times

Recommend SOC window: 5%~95%

## 3.2v 70Ah Lithium Ion Battery Datasheet

Item	Specification	Note
Nominal Capacity	70Ah @ 0.5C	25±2 °C, Fresh cell
Nominal Energy	224 Wh @ 0.5C	25±2 °C, Fresh cell
Voltage Range	2.5-3.65V	T > 0°C Cell Temperature T > 0°C
	2.0-3.65V	T ≤ 0°C Cell Temperature T ≤ 0°C
Impedance(1KHz)	≤ 0.6 mΩ	Fresh cell (~50%SOC)
Dimensions(mm)	Width	148.44±0.5
	Thickness	39.72±0.5(300±20Kgf)
	Height	102.74±0.5(Shoulder Height)
105.11±0.5(Total Height)		
Shipping Capacity	21-38.5 Ah	30~55%SOC
Residual Capacity Loss	Per month ≤3%	50%SOC, 25±2°C Storage
Working Temperature	Charge: 0°C~60°C	

Working Temperature	Discharge: -30°C~60°C	
Storage Temperature	-40°C~60°C	Storage ambient humidity ≤ 90% ROH, no condensation
Recommended SOC Range	5~95%SOC	
Cell Weight	1.33±0.05 Kg	
Energy Density	170 Wh/kg	25±2°C, 0.5C Typical value
	380 Wh/L	
Cycle Life @25°C	≥ 6000Cycles	25 ± 2 ° C, 0.5C/0.5C under 300 ± 20Kgf preload. Capacity fading to 49Ah
Standard Charge Rate	0.5C	25±2°C
Charge Cut-off Voltage	3.65V Cell max charging voltage	
Standard Charge Method	0.5C CC to 3.65V CV to 0.05C	
Standard Charge Temperature	25±2°C	Cell Temperature
Absolute Charging Temperature	0~ 60°C	The temperature range of cell charging, if exceed this temperature range, charging should be stopped immediately.
Absolute Charging Voltage	3.65 V	The voltage range of cell charging, if exceed this charge upper limit, charging should be stopped immediately.
Standard Discharge rate	0.5C 35A	25±2°C
Maximum Discharge Rate (Continuous)	2C 140A	25±2°C 5 min
Maximum Discharge Rate (Peak)	3C 210A	25±2°C 30s
Discharge Cut-off Voltage	2.5V	(Temperature)T>0°C
	2.0V	(Temperature)T≤0°C
Standard Discharge Temperature	25±2°C	Cell Temperature
Absolute Discharging Temperature	-30~ 60°C	The temperature range of cell discharging, if exceed this Temperature range, discharging should be stopped immediately.

More Information Please Go to: [www.nbcellenergy.com](http://www.nbcellenergy.com). Or Email Us: [info@nbcell.com](mailto:info@nbcell.com)

### 3.2v 72Ah Lithium Ion Battery Datasheet

Item	Specification	Note
Nominal Capacity	72Ah @ 0.5C	25±2 °C, Take the average of the last three cycles of the new battery after five cycles
Nominal Energy	230Wh @ 0.5C	25±2 °C, Fresh Cell
Voltage Range	2.0-3.65V	
Impedance(1KHz)	≤ 0.6 mΩ	Fresh cell (~50%SOC)
Dimensions(mm)	Width	148.44±0.5(Waist Width)
		148.66±0.5(Bottom Width)
	Thickness	39.72±0.5(300±20Kgf)
	Height	110.77±0.5(Shoulder Height)
113.61±0.5(Total Height)		
Shipping Capacity	21-39.5 Ah	30~55%SOC
Residual Capacity Loss	Per Month ≤3%	50%SOC, 25±2°C Storage
Working Temperature	Charge: 0°C~60°C	
	Discharge: -30°C~60°C	
Storage Temperature	-40°C~60°C	Storage ambient humidity ≤ 90% ROH, no condensation
Recommended SOC Range	5~95%SOC	
Cell Weight	1.4±0.05 Kg	
Energy Density	170 Wh/kg	25±2°C, 0.33C typical value
	370 Wh/L	
Cycle Life @25°C	≧ 4000Cycles	25 ± 2 ° C, 0.5C/0.5C under 300 ± 20Kgf preload. Capacity fading to 59Ah
Standard Charge Rate	0.5C	25±2°C
Charge Cut-off Voltage	3.65V Cell max charging voltage	
Standard Charge Method	0.5C CC to 3.65V CV to 0.05C	
Standard Charge Temperature	25±2°C	Cell Temperature
Absolute Charging Temperature	0~ 60°C	The temperature range of cell charging, if exceed this temperature range, charging should be stopped immediately.

Absolute Charging Voltage	3.65 V	The voltage range of cell charging, if exceed this charge upper limit, charging should be stopped immediately.
Standard Discharge Rate	0.5C 36A	25±2℃
Maximum Discharge Rate (Continuous)	2C 144A	25±2℃ 5 min
Maximum Discharge Rate (Peak)	3C 216A	25±2℃ 30s
Discharge Cut-off Voltage	2.0V	
Standard Discharge Temperature	25±2℃	Cell Temperature
Absolute Discharging Temperature	-30~ 60℃	The temperature range of cell discharging, if exceed this Temperature range, discharging

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## 3.2v 72Ah LiFePO4 Battery Datasheet

Nominal Voltage: 3.2v

Nominal Capacity: 72Ah

Cell Weight: 1.78± 0.1kg

Work Voltage: 2.5-3.65V

Internal Resistance: 0.1~0.5mΩ

Dimension: 135\*30\*220.8mm

Energy Density: 129.44Wh/kg

Shell Material: Aluminium

Standard Charging Model: At room temperature, charged to 3.65V at a constant current of 21.6A, and then, changed continuously with constant voltage of 3.65V until the current was not more than 3.6±0.5A.

Standard Discharging Model: At room temperature, discharged to 2.5V at a constant current of 72A.

Maximum Constant Discharging Current: 72A

Operating Temperature: Discharge : -20-55℃, Charge: 0-45℃

Cycle Life: ≥2000 times

Recommend SOC window: 10%~90%



## 3.2v 72Ah LiFePO4 Battery Datasheet

Item	Specification	Note
Nominal Capacity	72Ah	Standard Discharge
Minimal Capacity	72Ah	Standard Discharge

Work Voltage	2.5-3.65V	
Internal Resistance(Ac. 1kHz)	0.1~0.5mΩ	Fresh Cell, 30%SOC
Dimensions(mm)	Length	135.0±1.0
	Width	30.0±1.0
	Height	220.8±1.0
Charging Time	Standard Charge	Reference Value: 4h
Recommended SOC Window	SOC: 10%~90%	
Operating Temperature	Charging Temperature	0~45°C
	Discharging Temperature	-20~55°C
Weight	1.78±0.1kg	
Shell Material	Aluminium	
Standard Charging Model	At room temperature, charged to 3.65V at a constant current of 21.6A, and then, changed continuously with constant voltage of 3.65V until the current was not more than 3.6±0.5A.	
Standard Charging Temperature	25±2°C	Cell Temperature
Absolute Charging Temperature	0~45°C	No matter what the charging model is, once the temperature of the cell is above the absolute charging temperature, charging should be stopped.
Absolute Charging Voltage	Maximum 3.75V	No matter what the charging model is, including pulse charging, once the voltage of the cell is above the absolute charging voltage, charging should be stopped.
Standard Discharging Model	At room temperature, discharged to 2.5V at a constant current of 72A.	
Maximum Constant Discharging Current	72A	
Maximum Pulse Discharging Current(Long Pulse)	144A	Maximum duration: 3min
Maximum Pulse Discharging Current (Short Pulse)	216A	When battery temperature is below 50 °C , the maximum discharge can last 30s
Standard Discharging Temperature	25 ± 2°C	Cell Temperature
Absolute Discharging Temperature	-20~55°C	No matter what the discharging model is, once the temperature of the cell is above the absolute discharging temperature, discharging should be stopped.

Cycle Life

≥2000 cycles

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## LiFePO4 Battery Accessories

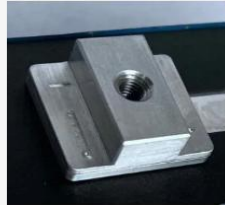
In a world where LiFePO4 battery cells often come with flat terminals, our clients frequently seek assistance in welding battery terminals for future convenience. Below are samples of the terminals we've provided, giving you the freedom to choose according to your needs.

Unsure about the right terminal for you? Don't worry! With our wealth of experience, we're here to offer advice or craft the customized terminals just for you.

And it doesn't stop there! In addition to terminals, busbars, screws and other battery components are equally indispensable. We tailor-fit accessories according to various LiFePO4 battery cells models, ensuring seamless compatibility. From BMS to battery enclosures and beyond, we've got you covered for all your battery accessory needs.



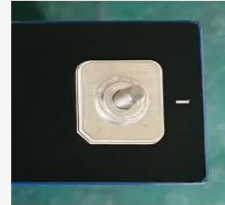
Flat Terminal



Welding Terminal With Screw Hole



Customised Terminal



Terminal With Stud



Terminal With Screw Hole



Busbars And M6 Screws



M4 Screws And Busbar



Busbars



Customised Busbars



BMS

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