



## Product Model



## Specification

Model	LFP48V300Ah 15KWH	LFP51.2V300Ah 15KWH
<b>Package</b>		
Combination method	15S 3P	16S 3P
Rated Capacity	Typical Minimum	300Ah 300Ah
Factory Voltage	52.2-53.9V	52.2-53.9V
Voltage at end of Discharge	40.5V	43.2V
Charging Voltage	54V	57.6V
Internal Impedance	≤100mΩ	≤100mΩ
Standard charge	Constant Current 60A ;Constant Voltage: 59.2V ; 5A cut-off	
Standard discharge	Constant current : 60A	
Maximum Continuous Charge Current	150A	150A
Maximum Continuous Discharge Current	150A	150A
Operation Temperature Range	Charge: 0~55°C Discharge: -15~55°C	
Storage Temperature Range	Less than 12 months : -10~35°C Less than 3 months: -10~45°C Less than 7 day : -20~60°C	
Dimensions	600*1100*230 mm	
Weight	165kg	
Volumetric specific energy	102WH/L	
Gravimetric specific energy	93WH/KG	
Cycle Life	≥8000	



### Safe & Maintenance Free

No fuel, No noise, And No Worry



### House Made Smart BMS

Patented Technology



### Dual protection Security Design

Intelligent Protection



### Plug & Play

Easy Installation And Simple Configuration



### 24/7

Uninterrupted Power Supply



### Vertical or Wall-Mounted

Installation Structure  
More Space Saving

# Specification

## Battery Management System

### BMS Specification

1. The BMS is designed for 16 series of lithium-ion batteries.
2. The BMS have all functions which are :
  - Overcharge Detection Function
  - Over Discharge Detection Function
  - Over Current Detection Function
  - Short Detection Function
  - Temperature Detection Function
  - Balance Function
  - Communicate function
  - Alarm function

### BMS Protect Parameter

#### 48V 15S / 16S Typical Value Specifications

Items	Details	Standard
Cell Overcharge Protection	Overcharge Detection Voltage	3.70±0.025V
	Overcharge Detection Delay Time	Typical:1.0s
	Overcharge Release Voltage	3.45±0.02V
Cell Over-Discharge Protection	Over-Discharge Detection Voltage	2.7±0.02V
	Over-Discharge Detection Delay Time	Typical:1.0s
	Over-Discharge Release Voltage	3.05±0.02V or charge release

### BMS Protect Parameter

#### 48V 15S / 16S Typical Value Specifications

<b>Over-Current Protection</b>	Discharge Over-Current Protection Current1	155±2A
	Discharge Over-Current Detection Delay Time 1	1S
	Discharge Over-Current Protection Current2	180±5A
	Discharge Over-Current Detection Delay Time2	100ms
	Charge OC Protection Current	150±2A
<b>Short Protection</b>	Short Protection Current	350±10A
	Protection Condition	Load short
	Detection Delay Time	≤500us
	Protection Release Condition	Charging release
<b>Temperature(T) Protection</b>	Charge High (T) Protection	60±2°C
	Charge High (T) Recover	55±5°C
	Discharge High (T) Protection	65±2°C
	Discharge High (T) Recover	60±5°C
	Charge Low (T) Protection	-5±2°C
	Charge Low (T) Recover	0±2°C
	Discharge Low (T) Protection	-20±5°C
	Discharge Low (T) Recover	-15±5°C
<b>Balance</b>	Balance Threshold Voltage	3.45V
<b>Communication</b>	It Has RS232 And RS485 Standard Communication Interface, It Can Real-Time Monitoring The Capacity Of Battery Bank, The Voltage, Current, Environment Temperature, And Charging/Discharging Current.	
<b>Alarm</b>	It Has Over-Temperature, Over Charge, Under-Voltage, Over-Current, Short Circuit Alarm Function.	