

# Solarthon®

## 51.2V 184AH BATTERY PACK

### PRODUCT DESCRIPTION

The product belongs to one of the series of household energy storage products that are independently designed and developed by us. It is used for energy storage and energy supply to household, commercial, UPS and other electrical equipment.

This product enjoys many merits: long cycle life, high safety standard from software protection to strong housing, exquisite looks, and easy installation, etc. It is widely used in energy storage system with off-grid inverters, grid-connected inverters and hybrid inverters.

- ◆ Each battery pack is equipped with an intelligent battery management system to manage the modules efficiently.
- ◆ Compared with traditional modules, it can meet the capacity storage and greatly improve the cycle life.
- ◆ National high-tech enterprise, home intelligent energy management, safe, efficient and green energy



## PRODUCT DETAILS

### LONGER CYCLE LIFE

Offers up to 15 times longer cycle life and 5 times longer float/ calendar life than lead acid battery.

### LOW SELF-DISCHARGE

Lower self-discharge compared with lead acid battery, longer storage time without recharging.

### SUPERIOR SAFETY

Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.

### HIGH EFFICIENT

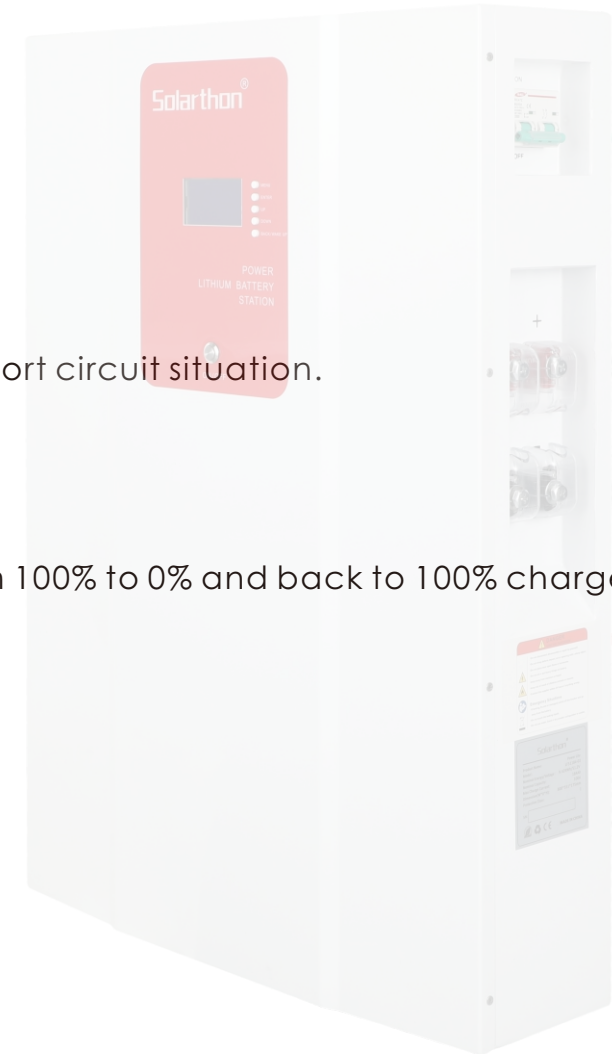
Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).

### LIGHTER WEIGHT

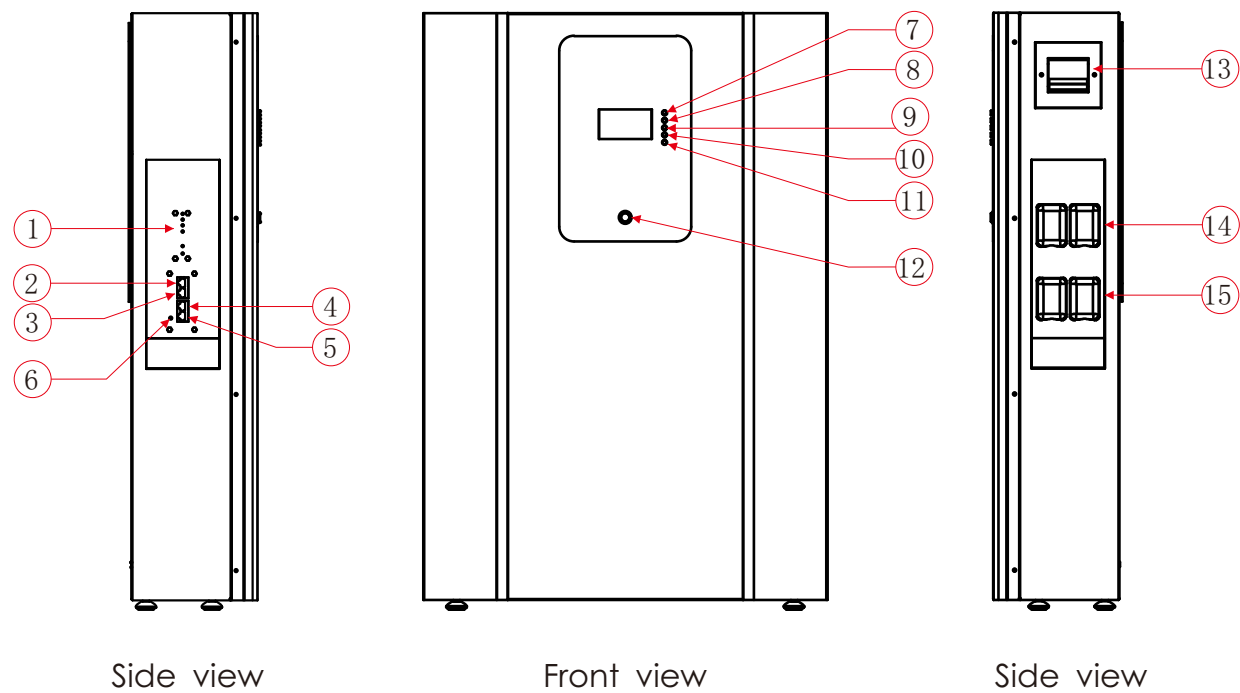
About 40% weight of a comparable lead acid battery. save up to 60% in weight.

### QUICK CHARGE

Short charge time compared with lead acid battery.



Panel indication



Item	Project	Explanation
1	LED	LED1, 2, 3, 4, 5, 6
2	CAN	Parallel port
3	CAN	Parallel port
4	Rs485	Communication with upper computer
5	CAN	Communication with inverter
6	Reset switch	Reset switch
7	MENU	MENU
8	ENTER	ENTER
9	UP	UP
10	DOWN	DOWN
11	Back/wake up	Back/wake up
12	Main switch	Main switch
13	Air switch	Air switch
14	“+”	Port Positive *2
15	“-”	Port Negative *2

PRODUCT SPECIFICATION

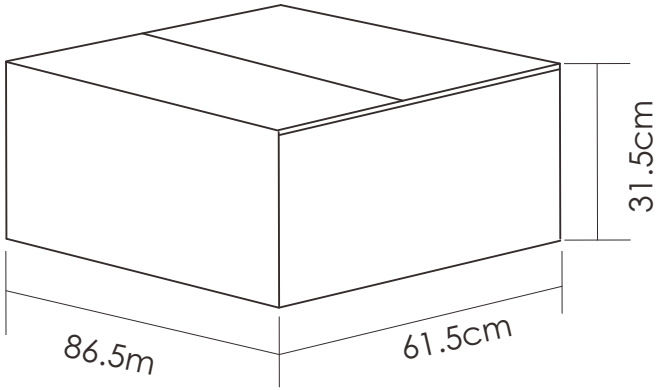
51.2V 184AH BATTERY PACK

Model	LF51184-02
Battery Type	LiFePO4
Nominal Voltage	51.2V
Nominal Capacity	184Ah
Charging Cut-off Voltage	58.4V
Discharging Cut-off Voltage	40.8V
Max Cont. Charging Current	100A
Max Cont. Discharging Current	200A
Working Temperature	0℃ ~ 55℃ (Charge)
Working Temperature	-20℃ ~ 65℃ (Discharge )
Cycle Life	≥6000
Product Size	800*551*175mm
Weight	61kg



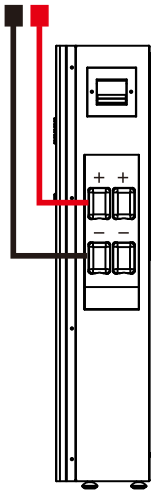
PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN(KGS)
		L	W	H			
LF51184-02	51.2V 184AH	86.50	61.50	31.50	1	0.1676	66.00



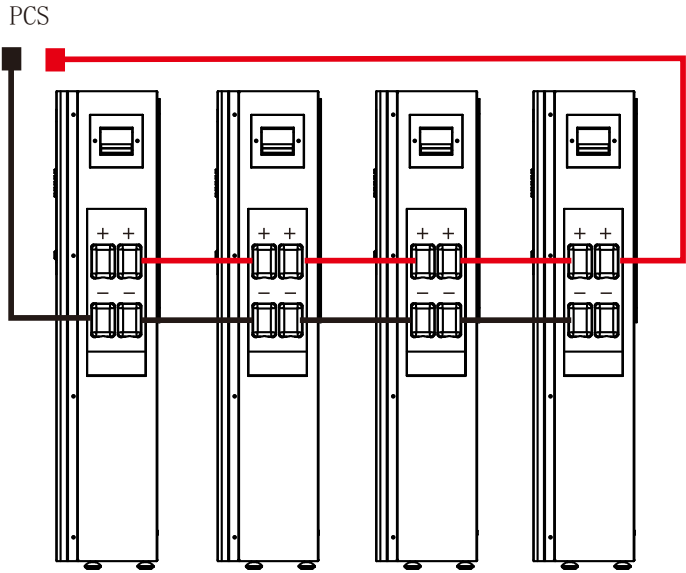
DC Cable Connection

1. Single Unit



Single Unit Connection

2. Multi-Units in Parallel (4 sets as an example)  
Max. Number Of Parallel: 4 Sets

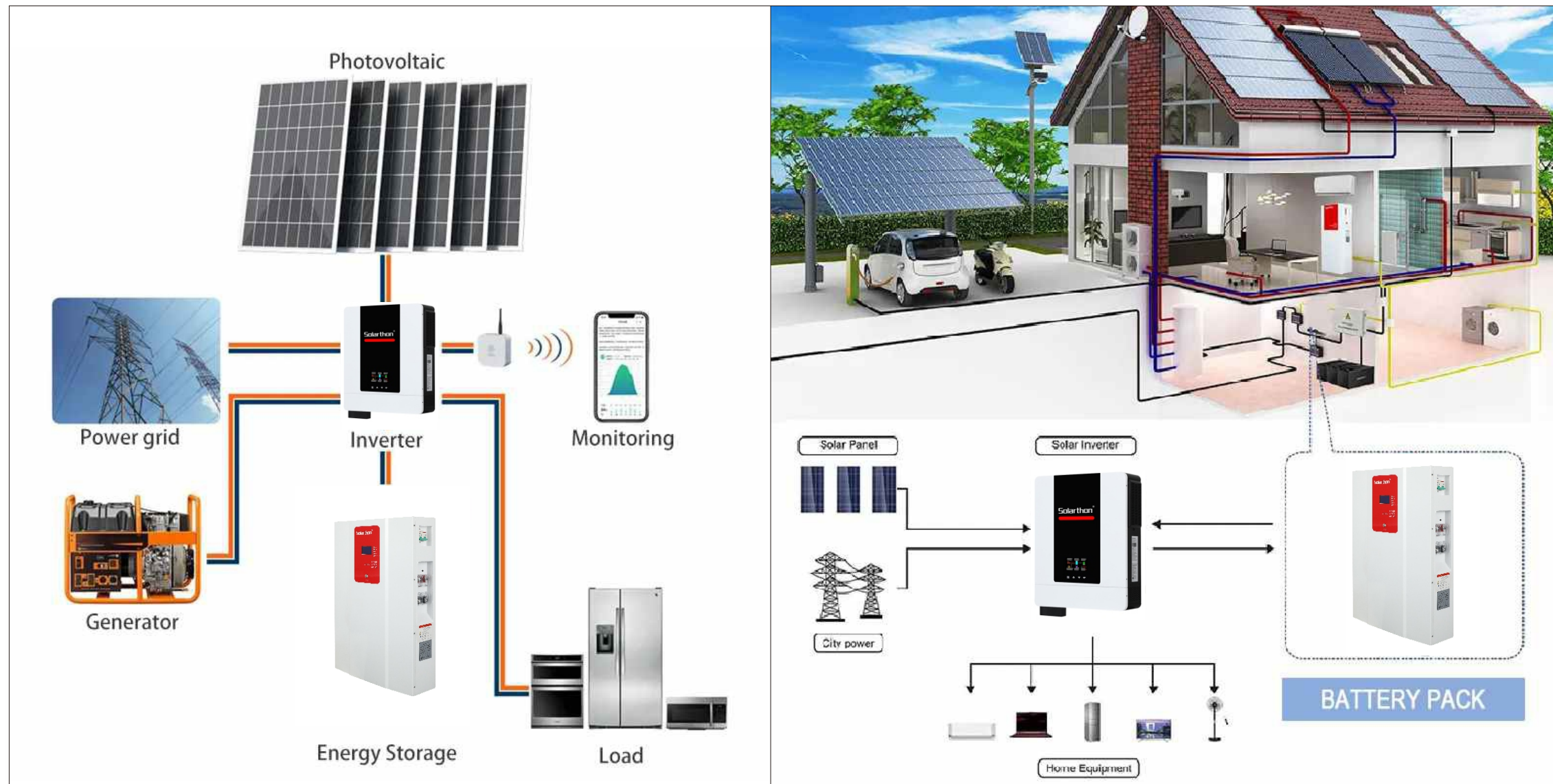


Multi-Units Connection

Master Pack and Slave Pack can be used as single unit as well as multi-units (in parallel) mode. The customer must inform supplier if multi-units mode is required.

## ROUTE DIAGRAM

51.2V 184AH BATTERY PACK



## VERSATILE IN ONE BATTERY PACK



## BATTERY GUARANTEE OF QUALITY

### 51.2V 184AH BATTERY PACK

01

#### Battery Cells

High-end battery cells keep every cell's voltage, resistance, capacity, discharging always in sync.

02

#### Battery Protector

High precision IC keep performance more stable protect over load, over charge, over discharge, short circuit, over voltage, over current keep battery pack always safe and long life span.

03

#### Precision Welding Machine

Fully automatic precision welding machine can ensure that every battery can be welded firmly to prevent the danger of short circuit or power failure.

04

#### Aging Test Machine

every battery pack need to thorough charging and discharging test by the aging test machine to keep 100% qualified.