

# CATALOG BATTERIES

## LiFePO4

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ENGINEERING

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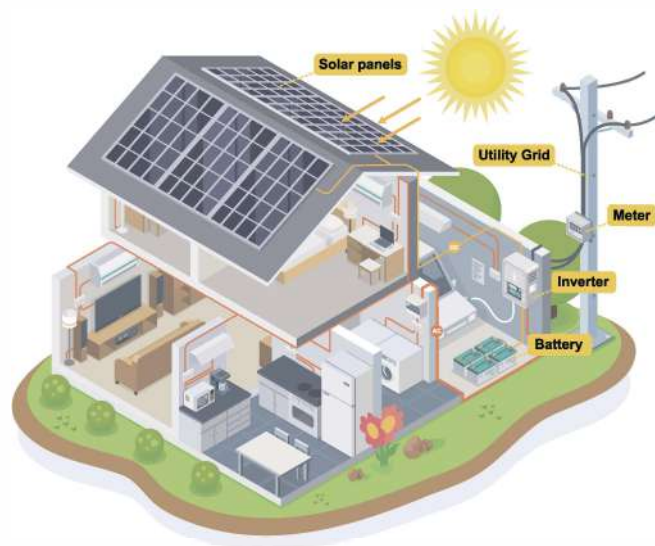
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25.6V/48V/51.2V (50-300AH)  
Wall mounted battery



12.8V 20AH-400AH  
ABS shell battery



25.6V/48V/51.2V (50AH-300AH)  
Rack mounted battery



25.6V/48V/51.2V (50AH-300AH)  
Rack mounted battery



48/51.2V(10-100KWH) Stacked battery  
module (Connect in parallel)



102.4V-512V High volt  
battery cabinet



102.4V-512V High volt  
battery cabinet



All-in-one cabinet



Energy storage container



Hybrid/Off Solar System

- ★ Support OEM & ODM service, welcome custom logo/size/color/function etc.
- ★ European warehouse, Fast delivery.
- ★ Compatible with: Deye/Growatt/Goodwe/Luxpower / Victron / Victronic/Solax / Pylontech / SMA / MPP / MUST/ Megarevo / Easun / Thinkpower / SOFAR.etc. With authorization and battery approved listing.



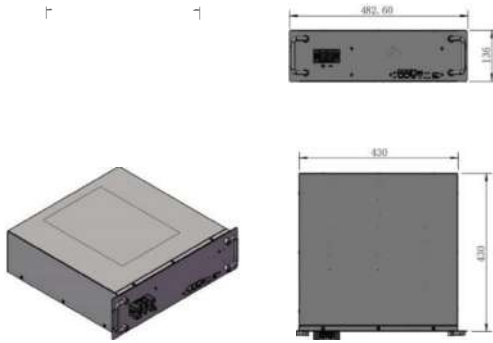
**Communication function:** There are RS485, CAN and RS232 communication modes at the same time, which can effectively communicate with most brands of inverters.



**Compatible with more than 30 different brands of inverter, such like:** Growatt,Victorn, Goodwe, Deye,Sofar,etc.



# Energy Storage Battery Production Line



DESIGN



DEVICE CAPACITY



PRODUCTION



ASSEMBLE



AGING TEST



PACKAGE

**Mature RQS system to supervise every process of production**

- ★ ICQC In Coming Quality Control
- ★ IPQC In Process Quality Control
- ★ FQC Final Quality Control
- ★ OQC Out-going Quality Control



# PLASTIC CASE LITHIUM BATTERY

FOR SOLAR RV, HOME ENERGY STORAGE, YACHT, STREET LIGHT ETC

- > BMS: Built-in Smart BMS
- > Brand new , A grade quality cells
- > Various models to choose
- > Support read, remote monitoring, monitor data through APP/LED(WIFI/bluetooth can choose)



## ABS Shell Battery Main Models

Model	Nominal Voltage	Nominal Capacity	Energy
CL12.8-100	12.8V	100AH	1280WH
CL12.8-200	12.8V	200AH	2560WH
CL12.8-300	12.8V	300AH	3840WH
CL12.8-400	12.8V	400AH	5120WH
CL25.6-100	25.6V	100AH	2560WH
CL25.6-200	25.6V	200AH	5120WH



Detect real-time status



Function display



Basic Information



portable



Positive port



Negative port

## ABS Shell Battery Parameters

<b>Product model</b>						
<b>Product specification</b>	12.8V 100Ah	12.8V 200Ah	12.8V 300Ah	12.8V 400Ah	25.6V 100Ah	25.6V 200Ah
<b>Nominal voltage</b>	12.8V	12.8V	12.8V	12.8V	25.6V	25.6V
<b>Nominal capacity</b>	100Ah	200Ah	300Ah	400Ah	100Ah	200Ah
<b>Cell type</b>	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)
<b>Standard charge voltage</b>	14.6V	14.6V	14.6V	14.6V	29.2V	29.2V
<b>Max charge current</b>	50A	200A	100A	200A	100A	200A
<b>Discharge cut-off voltage</b>	10V	10V	20V	20V	20V	20V
<b>Max discharge current</b>	100A	100A	100A	100A	100A	200A
<b>Parallels function</b>	Support 4 units in parallels					
<b>Cycle life</b>	≥6000 Cycles (80%DOD)					
<b>Charge temperature range</b>	0~60°C					
<b>Discharge temperature range</b>	-20~60°C					
<b>Color</b>	Black					
<b>Dimensions</b>	328*220*172 MM	522*238*220 MM	522*268*218 MM	520*268*220 MM	328*220*172 MM	522*238*220 MM
<b>Weight</b>	15KG	20KG	39KG	47KG	17KG	22KG
<b>Installation method</b>	Floor					

# TOUCH SCREEN NEW LITHIUM BATTERY

- EVE A grade battery cells
- Multi-language selection
- Touch screen selection protocol



## Rack Mounted Battery Main Models

Model	Nominal Voltage	Nominal Capacity	Energy
CL48-100	48V	100AH	4800WH
CL48-200	48V	200AH	9600WH
CL48-300	48V	300AH	14400WH
CL51.2-100	51.2V	100AH	5120WH
CL51.2-200	51.2V	200AH	10240WH
CL51.2-300	51.2V	300AH	15360WH



EVE A grade battery cells



Touch screen selection protocol



Multi-language selection

## Touch Screen Rack Model Lithium Battery Parameters

<b>Product model</b>						
<b>Product specification</b>	48V 100Ah	48V 200Ah	48V 300Ah	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah
<b>Nominal voltage</b>	48V	48V	48V	51.2V	51.2V	51.2V
<b>Nominal capacity</b>	100Ah	200Ah	300Ah	100Ah	200Ah	300Ah
<b>Cell type</b>	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)
<b>Standard charge voltage</b>	53.25V	53.25V	53.25V	56.8V	56.8V	56.8V
<b>Max charge current</b>	100A	100A	100A	100A	100A	100A
<b>Discharge cut-off voltage</b>	42V	42V	44.8V	44.8V	44.8V	44.8V
<b>Max discharge current</b>	100A	100A	100A	100A	100A	100A
<b>Parallels function</b>	Support 15 units in parallels					
<b>Communication interface</b>	RS485、CAN(Optional)					
<b>Cycle life</b>	≥6000 Cycles (80%DOD)					
<b>Charge temperature range</b>	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C
<b>Discharge temperature range</b>	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C
<b>Color</b>	Black	Black	Black	Black	Black	Black
<b>Dimensions</b>	430*460*220 MM	474*513*235 MM	482.6*750*220 MM	430*460*220 MM	474*513*235 MM	482.6*750*220 MM
<b>Weight</b>	45KG	86KG	115KG	47KG	90KG	120KG
<b>Installation method</b>	Floor	Floor	Floor	Floor	Floor	Floor



# RACK MODEL LITHIUM BATTERY

- ✓ Full new A Grade cells, design life 20 years
- ✓ Built-in smart BMS, compatible with more than 20 brands inverter
- ✓ With LCD Screen can monitoring the battery data
- ✓ Support parallel connection to expand the capacity, up to max 15 units in parallel



## Rack Mounted Battery Main Models

Model	Nominal Voltage	Nominal Capacity	Energy
CL48-100	48V	100AH	4800WH
CL48-200	48V	200AH	9600WH
CL48-300	48V	300AH	14400WH
CL51.2-100	51.2V	100AH	5120WH
CL51.2-200	51.2V	200AH	10240WH
CL51.2-300	51.2V	300AH	15360WH





## Rack Model Lithium Battery Parameters

<b>Product model</b>						
<b>Product specification</b>	48V 100Ah	48V 200Ah	48V 300Ah	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah
<b>Nominal voltage</b>	48V	48V	48V	51.2V	51.2V	51.2V
<b>Nominal capacity</b>	100Ah	200Ah	300Ah	100Ah	200Ah	300Ah
<b>Cell type</b>	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)
<b>Standard charge voltage</b>	54.75V	54.75V	54.75V	58.4V	58.4V	58.4V
<b>Max charge current</b>	80A	80A	80A	80A	80A	80A
<b>Discharge cut-off voltage</b>	37.5V	37.5V	37.5V	40V	40V	40V
<b>Max discharge current</b>	100A	100A	100A	100A	100A	100A
<b>Parallels function</b>	Support 15 units in parallels					
<b>Communication interface</b>	RS485、RS232、CAN(Optional)					
<b>Cycle life</b>	≥6000 Cycles (80%DOD)					
<b>Charge temperature range</b>	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C
<b>Discharge temperature range</b>	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C
<b>Color</b>	Black	Black	Black	Black	Black	Black
<b>Dimensions</b>	482*430*222 MM	482*500*270 MM	482*570*270 MM	484*442*165 MM	474*513*235 MM	482*570*270 MM
<b>Weight</b>	50KG	90KG	127KG	53KG	93KG	130KG
<b>Installation method</b>	Floor	Floor	Floor	Floor	Floor	Floor



# TOUCH SCREEN LITHIUM BATTERY

-  EVE A grade battery cells
-  Multi-language selection
-  Touch screen selection protocol

Wall Mounted Battery Main Models			
Model	Nominal Voltage	Nominal Capacity	Energy
CL48-100	48V	100AH	4800WH
CL48-200	48V	200AH	9600WH
CL48-300	48V	300AH	14400WH
CL51.2-100	51.2V	100AH	5120WH
CL51.2-200	51.2V	200AH	10240WH
CL51.2-300	51.2V	300AH	15360WH



EVE A grade battery cells



Touch screen selection protocol



Multi-language selection

## Touch Screen Wall Mounted Battery Parameters

<b>Product model</b>						
<b>Product specification</b>	48V 100Ah	48V 200Ah	48V 300Ah	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah
<b>Nominal voltage</b>	48V	48V	48V	51.2V	51.2V	51.2V
<b>Nominal capacity</b>	100Ah	200Ah	300Ah	100Ah	200Ah	300Ah
<b>Cell type</b>	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)
<b>Standard charge voltage</b>	53.25V	53.25V	53.25V	56.8V	56.8V	56.8V
<b>Max charge current</b>	100A	100A	100A	100A	100A	100A
<b>Discharge cut-off voltage</b>	42V	42V	44.8V	44.8V	44.8V	44.8V
<b>Max discharge current</b>	100A	100A	100A	100A	100A	100A
<b>Parallels function</b>	Support 15 units in parallels					
<b>Communication interface</b>	RS485、CAN(Optional)					
<b>Cycle life</b>	≥6000 Cycles (80%DOD)					
<b>Charge temperature range</b>	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C
<b>Discharge temperature range</b>	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C
<b>Color</b>	White and Black	White and Black	White and Black	White and Black	White and Black	White and Black
<b>Dimensions</b>	430*460*220 MM	474*513*235 MM	482.6*750*220 MM	400*630*140 MM	480*630*220 MM	647*821*167 MM
<b>Weight</b>	45KG	86KG	115KG	52KG	95KG	130KG
<b>Installation method</b>	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted



# WALL MOUNTED BATTERY HOME SOLAR STORAGE



**Built-in Smart BMS**



**Use Grade A+ full new cells**



**Easy Installation**



**Compatible : Hybrid and off grid inverter  
(Growatt/Goodwe/Deye/Solaredge/Victron/etc.)**



**RS485, CAN and RS232  
communication protocol**

## Wall Mounted Battery Main Models

Model	Nominal Voltage	Nominal Capacity	Energy
CL48-100	48V	100AH	4800WH
CL48-200	48V	200AH	9600WH
CL48-300	48V	300AH	14400WH
CL51.2-100	51.2V	100AH	5120WH
CL51.2-200	51.2V	200AH	10240WH
CL51.2-300	51.2V	300AH	15360WH





## Wall Mounted Battery Parameters

<b>Product model</b>						
<b>Product specification</b>	48V 100Ah	48V 200Ah	48V 300Ah	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah
<b>Nominal voltage</b>	48V	48V	48V	51.2V	51.2V	51.2V
<b>Nominal capacity</b>	100Ah	200Ah	300Ah	100Ah	200Ah	300Ah
<b>Cell type</b>	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)	(LFP)
<b>Standard charge voltage</b>	54.75V	54.75V	54.75V	58.4V	58.4V	58.4V
<b>Max charge current</b>	80A	80A	80A	80A	80A	80A
<b>Discharge cut-off voltage</b>	37.5V	37.5V	37.5V	40V	40V	40V
<b>Max discharge current</b>	100A	100A	100A	100A	100A	100A
<b>Parallels function</b>	Support 15 units in parallels					
<b>Communication interface</b>	RS485、RS232、CAN(Optional)					
<b>Cycle life</b>	≥6000 Cycles (80%DOD)					
<b>Charge temperature range</b>	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C	0~60°C
<b>Discharge temperature range</b>	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C
<b>Color</b>	White and black	White and black	White and black	White and black	White and black	White and black
<b>Dimensions</b>	600*460*170 MM	620*480*225 MM	821*647*168MM	600*458*171 MM	620*480*225 MM	821*647*168MM
<b>Weight</b>	50KG	90KG	122KG	53KG	90KG	125KG
<b>Installation method</b>	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted	Wall mounted

# 102.4-512V 50AH HV LIFEPO4 BATTERY MODULE



Allow up to 10 batteries connected in series.



Easy installation, simple operation, can be directly stacked.



Convenient wiring, farewell to traditional high-voltage complex wiring system.



## Application Scenarios



Offices



Hotel



Hospital



Home



School




Farm




# 102.4V-512V 50AH


## HV STACKABLE LIFEPO4 BATTERY




High energy density  
110Wh/kg




Interfaces RS232,  
RS485,CAN




Stackable design  
ease to install




Multiple protection  
safe and long life



204.8V




307.2V



409.6V



512V



## Application Scenarios



Family



Small store



Office



Church



## High-voltage Standing LifePo4 Battery Parameters

<b>Product model</b>	CL-HV-204.8V 50AH	CL-HV-307.2V 50AH	CL-HV-409.2V 50AH	CL-HV-512V 50AH
<b>Nominal Voltage</b>	204.8V (64 series)	307.2V (96 series)	409.6V (128 series)	512V (160 series)
<b>Capacity</b>	50Ah	50Ah	50Ah	50Ah
<b>Storage Power</b>	10Kwh	15Kwh	20Kwh	25Kwh
<b>Internal resistance</b>	≤80Ω	≤100Ω	≤120Ω	≤150Ω
<b>Cycle life</b>	≥6000 Cycles			
<b>Design life</b>	15-20 years			
<b>Recommended charging voltage</b>	228V±2V	340V±2V	450V±2V	560V±2V
<b>Maximum working current</b>	100A			
<b>Discharge cut-off voltage</b>	180V±2V	270V±2V	350V±2V	440V±2V
<b>Charge temperature range</b>	0~60°C			
<b>Discharge temperature range</b>	-20~60°C			
<b>Storage temperature range</b>	-40~55°C@60%±25% relative humidity			
<b>Color</b>	White			
<b>Dimensions</b>	630*185*930 MM	630*185*1265 MM	630*185*1600 MM	630*185*1935 MM
<b>Weight</b>	About 53KG	About 180KG	About 230KG	About 280KG
<b>Communication mode</b>	RS232-PC, RS485(B)-PC, RS485(A)-Inverter, Canbus-Inverter			
<b>Authentication</b>	UN38.3, MSDS, UL1973(Cell), IEC62619(Cell)			



# 96V-800V HIGH-VOLTAGE BATTERY CABINET



Imported core electronic components with a lifespan of 10+ years



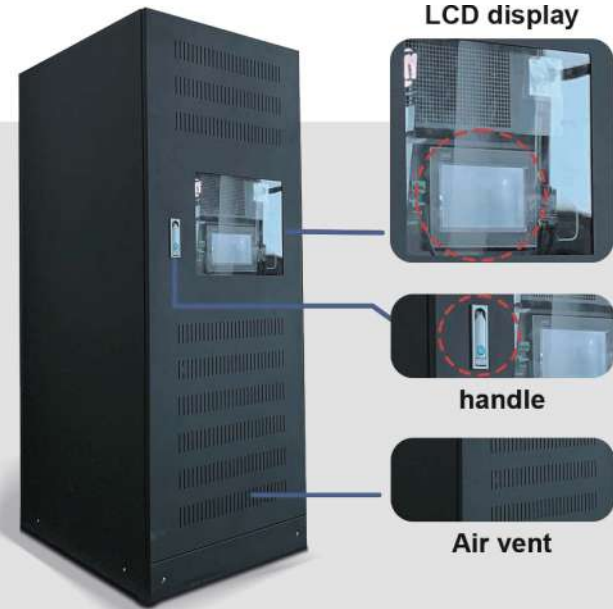
Grounding design, anti-surge, and alarm function



High voltage, small current, low cost design for whole system



## Difference Design Options



# 96V-800V HIGH-VOLTAGE BATTERY CABINET



Imported core electronic components with a lifespan of 10+ years



Grounding design, anti-surge, and alarm function



High voltage, small current, low cost design for whole system



Hospital



Office



Monitoring



Load



Factory

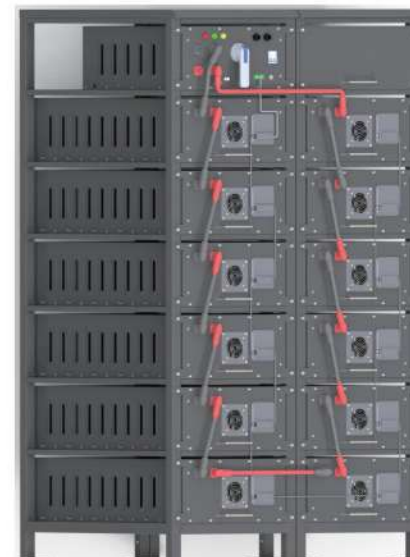
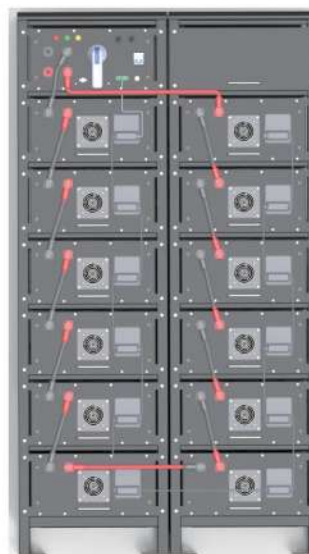
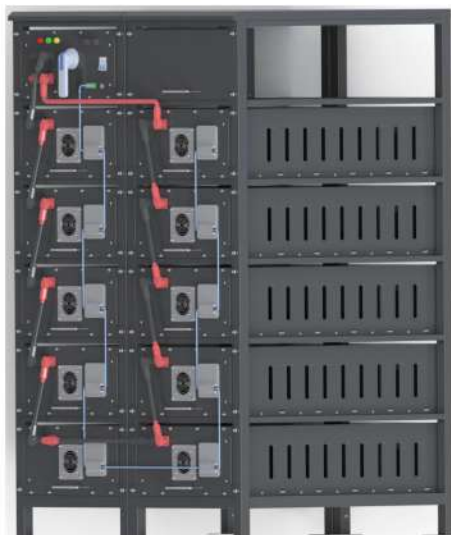


Gas Station

Commercial Battery Solution: Modularization design in 51.2VDC in series  
Battery voltage: 240V~720V  
Battery Module Qty.(Optional):5-15 Pcs  
DoD:80%  
Life cycle: 6000  
Design life: > 15years  
Battery system charge Current 1C-2C (Max.)  
Communication protocols: CAN, Modbus RTU



# Industrial and commercial energy storage battery cluster



51.2KWH/76.8KWH Battery Pack

102.4KWH/153.6KWH Battery Pack

143.36KWH/215.05KWH Battery Pack

Model	TH-384/280R/HV	TH-448/280R/HV	TH-512/280R/HV	TH-576/280R/HV	TH-640/280R/HV	TH-704/280R/HV	TH-768/280R/HV
Nominal Voltage	384V	448V	512V	576V	640V	704V	768V
Cell model/Configuration	3.2V280Ah(EVE)/120S1P	3.2V280Ah(EVE)/140S1P	3.2V280Ah(EVE)/160S1P	3.2V280Ah(EVE)/180S1P	3.2V280Ah(EVE)/200S1P	3.2V280Ah(EVE)/220S1P	3.2V280Ah(EVE)/220S1P
Capacity(Ah)	280AH	280AH	280AH	280AH	280AH	280AH	280AH
Rated Energy(KWH)	107.52KWH	125.44KWH	143.36KWH	161.28KWH	179.2KWH	197.12KWH	215.04KWH
Weight(Approx)(KG)	820kg	960kg	1080kg	1200kg	1350kg	1500kg	1650kg
Dimension (W/D/H)(mm)	1992*950*550mm	2250*950*550mm	1475*950*1100mm	1475*950*1100mm	1732*950*1100mm	1732*950*1100mm	1992*950*1100mm
Voltage Range(Vdc)	350-425V	410-495V	470-560V	520-640V	580-710V	640-770V	695-840V
Max. Charge/Discharge Current(A)	140A /140A						
Scalability	Up to 10 parallel						
Communication	RS485(B)-BAT RS485(A)-PC.Canbus-Inverter						
Cycle Life	≥6000cycles@25°C , 90% DOD , 60%EOL						
Design Life	≥15 Years(25°C )						
Protection	BMS, Breaker						
Operating Temperature(°C )	Charge:-10°C~50°C ; Discharge : -20°C-50°C						
Altitude (m)	≤2000						
Humidity	≤95%(Non-condensing )						



# ENERGY STORAGE CONTAINER



Container designed as  
All-in-One design



Energy storage grade  
high performance lithium  
iron phosphate (LFP) bat-  
teries



Easy to install and  
transport



## Parameter

Capacity: 67kWh~168kWh  
Rated power: 30kW, 60kW  
Rated grid voltage: AC400V±15%



## Parameter

Maximum capacity: 1290kWh  
Rated power: 180kW, 360kW, 600kW  
Rated grid voltage: AC400V, 3P4W+PE





### A Grade Full New Quality Cells With Full Capacity

- ✔️ Friendly Environment Battery : LiFePO4.
- ✔️ Prismatic Grade A+ cells.
- ✔️ 4000-6000 cycle times,10-15 years cycle life.
- ✔️ Stable and safe.

### Software Double Side BMS Battery Management & Protection System

- ✔️ Software version: programmable.
- ✔️ Protect: Over charge, Over discharge, Over current, Short circuit, High/Lower Temp cut off.
- ✔️ Better quality: components used is sufficient, MOS tubes are used more than 710 pairs, imported IC, accurately read data, better Welding and other workmanship, ensuring the battery servise life.

### High Quality Iron Shell & 4 Terminal & RS232/485/CAN Communication Procotol

- ✔️ Laser welding process:Higher costs,Higher safety.
- ✔️ The internal wiring process is more orderly.
- ✔️ Inner boxes are assembled with fire proof cotton,Better protection to the battery.

# Factory Production Management System



TEST AND WELD

PRODUCTION



AGING TEST AND QUALITY CONTROL



## Packaging and Wires



Power cables



Power cables



Power cables



Communication  
Cable



High voltage battery  
module packaging

Wall mounted battery  
moduel packaging

Rack mounted lithium  
battery packaging

## Package And Shipment



UN Carton



Wooden Box



# Project Cases

