



# ventana 2022



**12V/24V Bluetooth / WIFI  
Access LiFePO4 Battery**



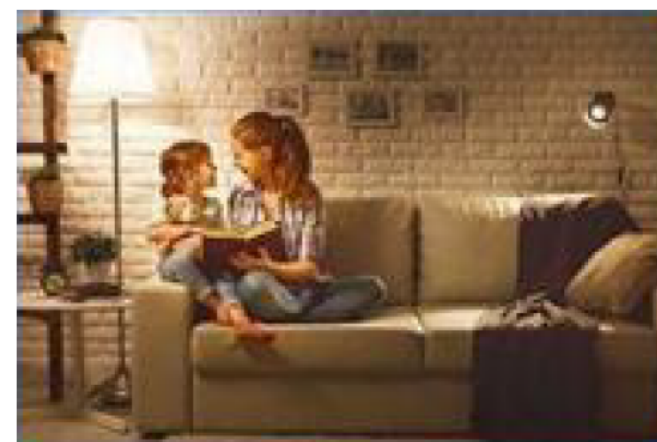
**Powerwall 2 Residential  
Energy Storage**



**48V Powerwall Home  
Battery**

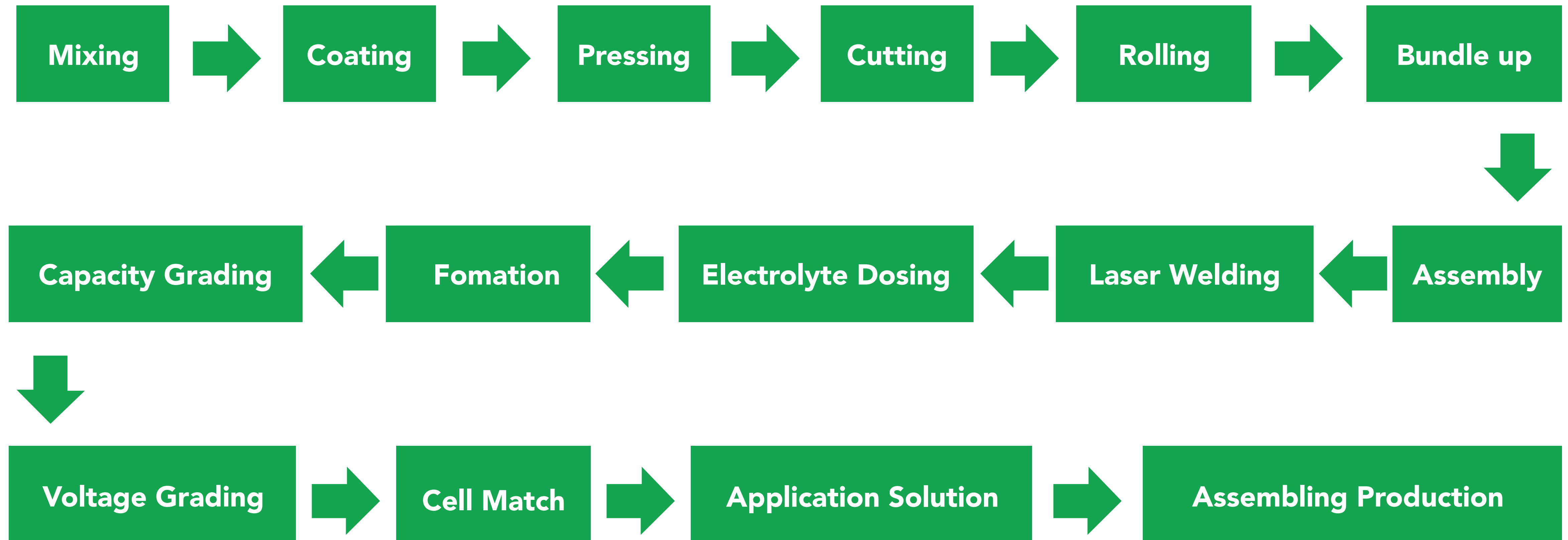


**Powerpack System  
Solution**

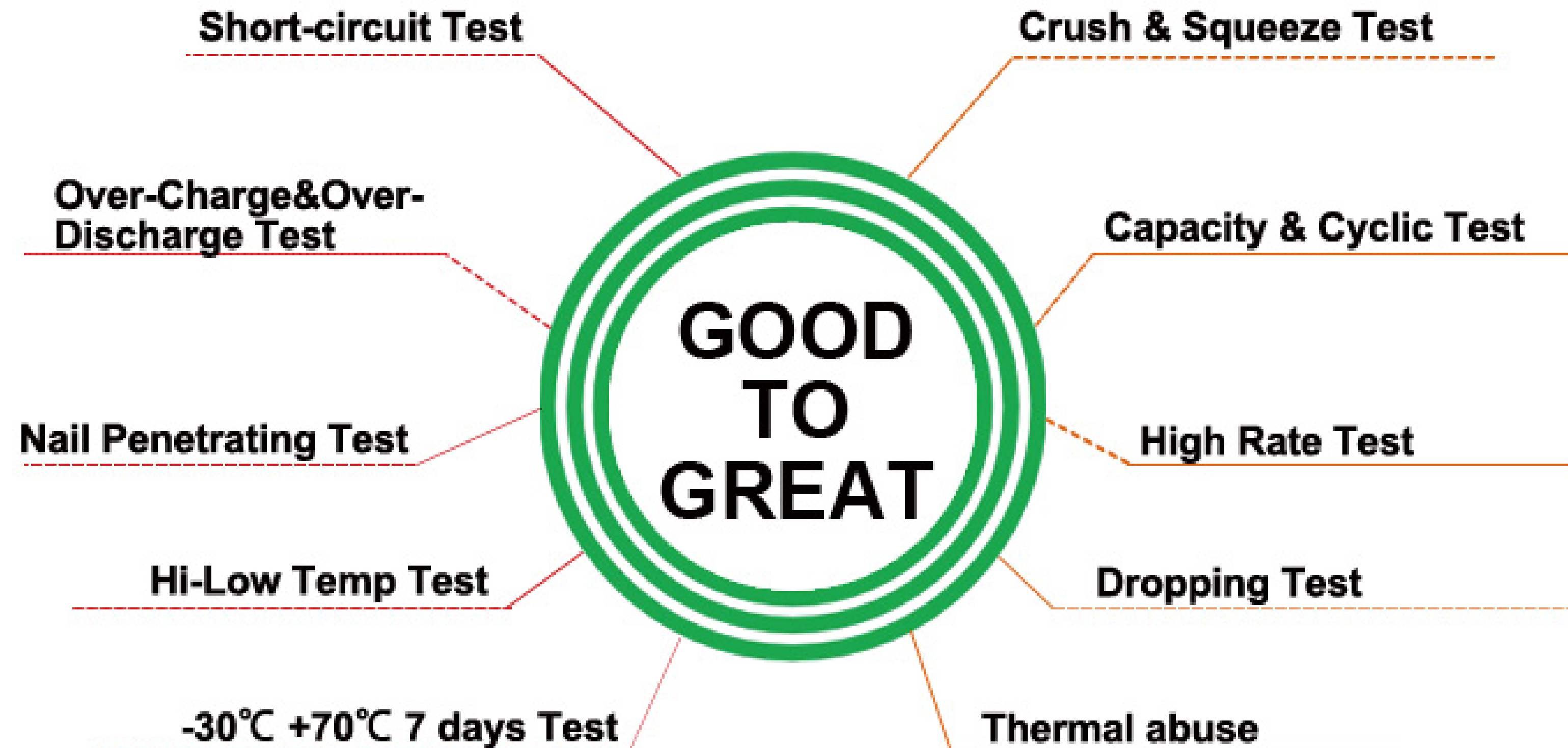


**EMPOWER BETTER LIFE**

# BATTERY CELL PRODUCTION PROCESS FLOW CHART:







# TOP SELLING POWERWALL LIFEPO4 BATTERY

## Product Details



1.The most popular models Powerwall are 5kwh, 7kwh and 10kwh.

2.Max Continuous charge/discharge Current **100A**,working current will be increase by the qty

3.LCD/LED display monitor

4.With RS232/RS485 communication on PC/Inverter

5.Two positive&Negative designed for many pcs in parallel connection and balance current effectively



# TOP SELLING POWERWALL LIFEPO4 BATTERY



6.Support 16pcs in parallel connection for more storage, Battery with balance function

7.Battery with balance function when parallel connection

## TOP SELLING POWERWALL LIFEPO4 BATTERY

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### Battery Basic information:

<b>48V Model:</b>	<b>48V 4.8KWH/7.2KWH/9.6KWH</b>
<b>Battery Type:</b>	<b>Lithium Iron Phosphate(Lifepo4)</b>
<b>Factory voltage:</b>	<b>49.5-50.5V</b>
<b>Voltage at the end of discharge:</b>	<b>40-42.5V</b>
<b>Charge voltage:</b>	<b>53.2V-54V</b>
<b>Cell:</b>	<b>3.2V100AH Prismatic cells</b>
<b>51.2V Model:</b>	<b>51.2V 5.12KWH/7.68KWH/10.24KWH</b>
<b>Battery Type:</b>	<b>Lithium Iron Phosphate(Lifepo4)</b>
<b>Factory voltage:</b>	<b>52.8V-53.9V</b>
<b>Voltage at the end of discharge:</b>	<b>42.5-45.5V</b>
<b>Charge voltage:</b>	<b>56.8V-57.6V</b>
<b>Cell:</b>	<b>3.2V100AH Prismatic cells</b>



# **ESS Rack Module Battery**

# TOP SELLING RACK MODULE LIFEPO3 BATTERY

Multiple Communication Protocols :  
RS485、RS232、CAN、SNMP V3、GPRS、GPS Available



## Product Details



1.The most selling models Powerwall are 5kwh and 10kwh.

2.Max Continuous charge/discharge Current **100A**,working current will be increase by the qty

3.LCD/LED display monitor

4.With RS232/RS485 communication on PC/Inverter

5.Two positive&Negative designed for many pcs in parallel connection and balance current effectively

6.Supported **40pcs** in parallel connection



## TOP SELLING RACK MODULE LIFEPO3 BATTERY

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### Battery Basic information:

<b>48V Model:</b>	<b>48V 4.8KWH/7.2KWH/9.6KWH</b>
<b>Battery Type:</b>	<b>Lithium Iron Phosphate(Lifepo4)</b>
<b>Factory voltage:</b>	<b>49.5-50.5V</b>
<b>Voltage at the end of discharge:</b>	<b>40-42.5V</b>
<b>Charge voltage:</b>	<b>53.2V-54V</b>
<b>Cell:</b>	<b>3.2V100AH Prismatic cells</b>

<b>51.2V Model:</b>	<b>51.2V 5.12KWH/7.68KWH/10.24KWH</b>
<b>Battery Type:</b>	<b>Lithium Iron Phosphate(Lifepo4)</b>
<b>Factory voltage:</b>	<b>52.8V-53.9V</b>
<b>Voltage at the end of discharge:</b>	<b>42.5-45.5V</b>
<b>Charge voltage:</b>	<b>56.8V-57.6V</b>
<b>Cell:</b>	<b>3.2V100AH Prismatic cells</b>

## TOP SELLING 15KWH LIFE PO4 BATTERY



1.The most selling models Powerwall are 15kwh.

2.Max Continuous charge/discharge Current **150A**,working current will be increase by the qty

3.LCD/LED display monitor

4.With RS232/RS485 communication on PC/Inverter

5.Save more space:Portable wheels or wall mount installation optional (Can be indoor or outdoor use)

6.With inverter communication max can be **16pcs**  
without inverter communication > **40pcs**



## TOP SELLING 15KWH LIFE PO4 BATTERY

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### Battery Basic information:

<b>48V Model:</b>	<b>48V 14.4KWH</b>
<b>Battery Type:</b>	<b>Lithium Iron Phosphate(Lifepo4)</b>
<b>Factory voltage:</b>	<b>49.5-50.5V</b>
<b>Voltage at the end of discharge:</b>	<b>40-42.5V</b>
<b>Charge voltage:</b>	<b>53.2V-54V</b>
<b>Cell:</b>	<b>3.2V100AH Prismatic cells</b>

<b>51.2V Model:</b>	<b>51.2V 15.36KWH</b>
<b>Battery Type:</b>	<b>Lithium Iron Phosphate(Lifepo4)</b>
<b>Factory voltage:</b>	<b>52.8V-53.9V</b>
<b>Voltage at the end of discharge:</b>	<b>42.5-45.5V</b>
<b>Charge voltage:</b>	<b>56.8V-57.6V</b>
<b>Cell:</b>	<b>3.2V100AH Prismatic cells</b>

## Inner Structure

# CELL TYPE OF LITHIUM LIFEPO4 BATTERY



Cylindrical cell



Prismatic Cell



Punch Cell

## The selected of cell

- **Cylindrical Cell:** Small capacity, assembly size flexible  
E.g. Small capacity pack, pvc wrapping, customized battery pack size limited, etc
- **Prismatic Cell:** Single cell with large capacity, reduce the parallel connection in parallel for battery pack, better consistency
- **Punch Cell:** Thin, customized size limited



# INNER STRUCTURE



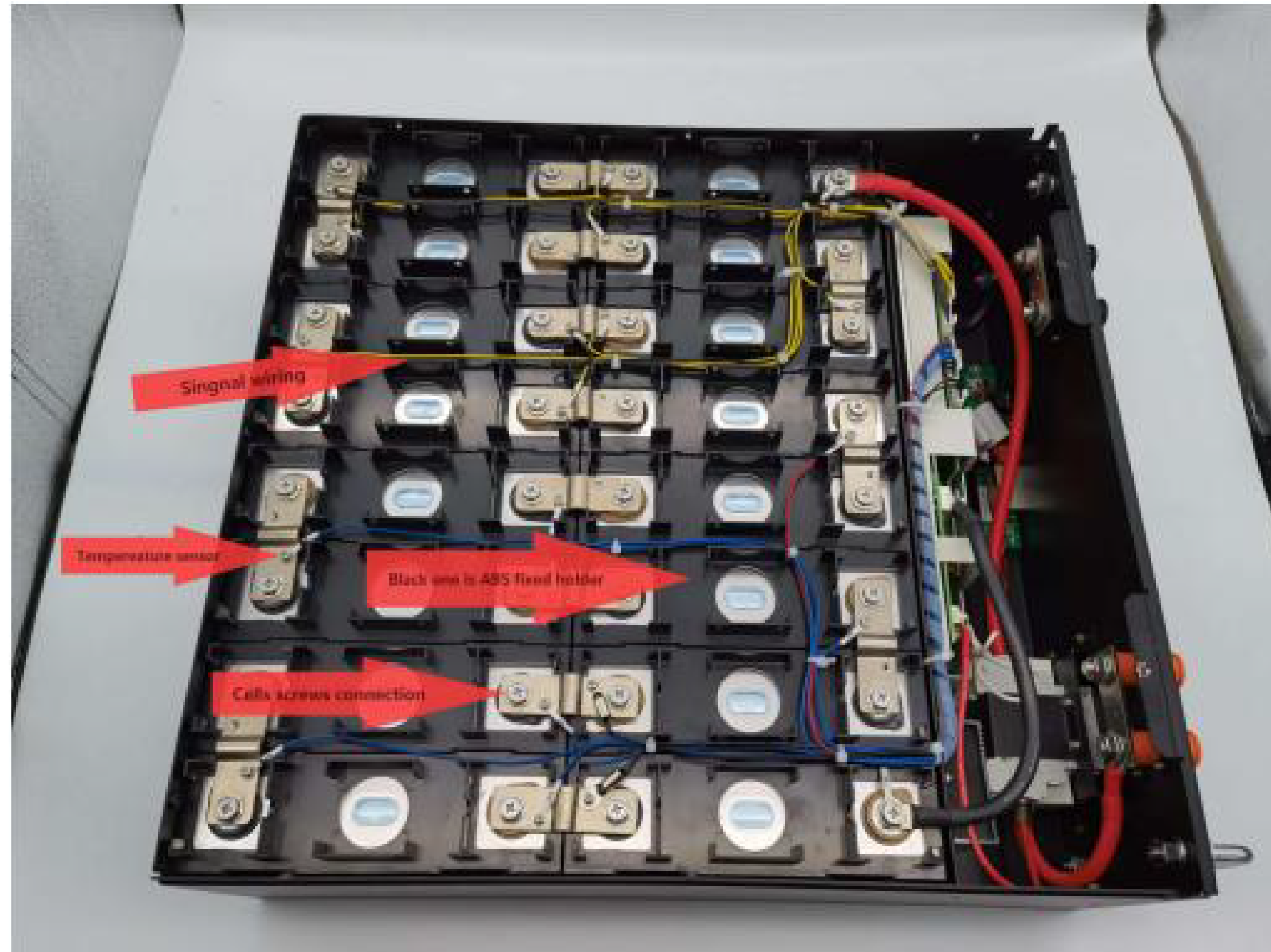
**1. Soft-starting & larger MOSFET avoid short-circuit protection during startup, and the battery has stronger high current resistance performance**

**2. The MeritSun Gold BMS adopts circuit boards and components imported from well-known foreign brands (US, Germany, Korea, Japan) for durable life.**

**3. 3.2V 100AH Prismatic cells: Can better to reduce many pcs cells in parallel or series connection for a goods consistency and performance**

**4. Battery with heat sink**

# INNER STRUCTURE



1. All cells are fixed with special brackets to improve safety and shock resistance.

The cells are connected with special copper sheets, which can withstand high current.

2. Smart BMS: Via temperature sensor & signal wiring to collect each cell's information then total will via BMS output to LCD display

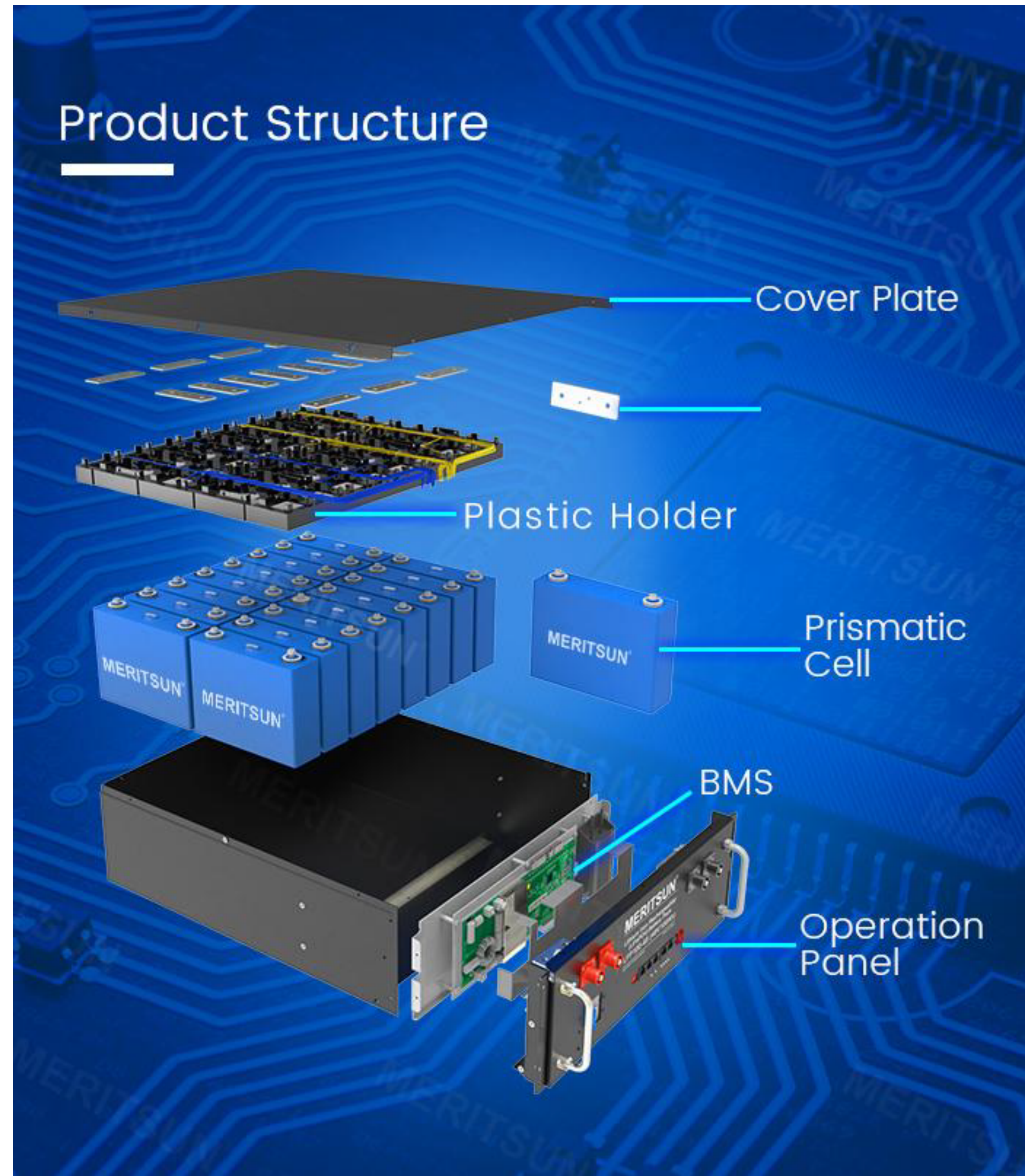
3. All wiring will be bundled for safety and avoid damage from shipping and moving

4. Each cell will be screw connection instead of traditional welding connection for easy to do after-sales service if needed.

(the safety of aluminum shell core adopted by us will be higher than that of punch cell)



# BATTERY INTRODUCTION





# INVERTER PARTNER



## WORKING SYSTEM



The image displays two Ventana inverters on the left. The central graphic, titled 'WORKING SYSTEM', features a grid of logos for compatible inverter brands: Schneider Electric, Growatt, GOODWE, MPP Solar, SUNGROW, OutBack POWER, solis, SOLAX, Fronius, LUPOWER™, SMA, victron energy, MEGAREVO, and Deye. At the bottom, a row of certification logos includes ISO 9001, ISO 14001, OHSAS 18001, UL, CE, RoHS, MSDS, UN38.3, SAA, TÜV Rheinland, and IEC.

**Communication compatible:**  
Deye, Sol-Ark, Victron,  
Megarevo, Growatt/Sacolar,  
Lux powertech,