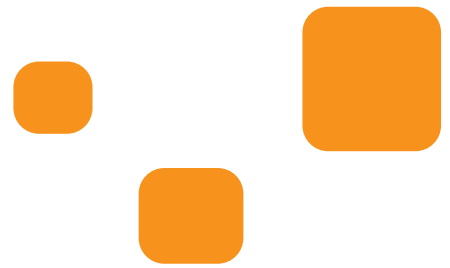




# **PING Solar**

P I N E R G Y S O L A R



Hefei Pinergy Solar Technology Co.,Ltd  
info@pnsolarpv.com

# 合肥品能光伏科技有限公司

**Hefei Pinergy Solar Technology Co.,Ltd.**

## WHO WE ARE

PNG Solar—committed to providing high-performance and technologically advanced energy storage products to global customers; Using shared platform as the strategic core, we aim to helping global partners quickly build localized production and intelligent manufacturing capabilities.

PNG Solar-CHINA SCIENCE ASPIRING BATTERY.

2GWh

Annual Production Capacity

200%

Annual Business Growth

200+

Total Employees

100+

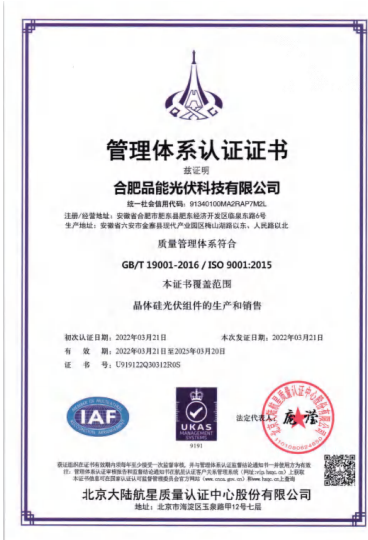
Countries Covered

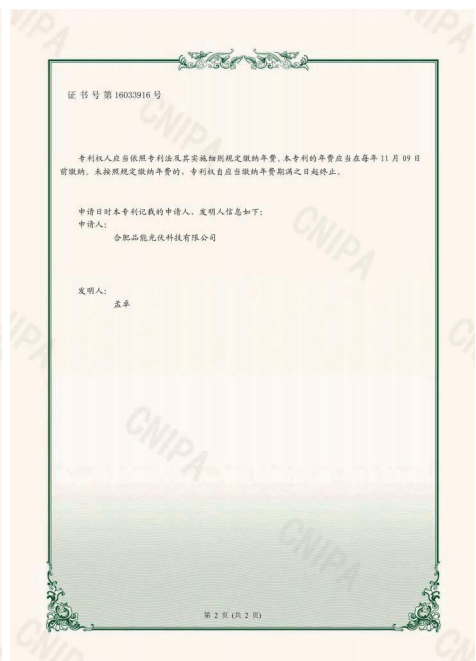
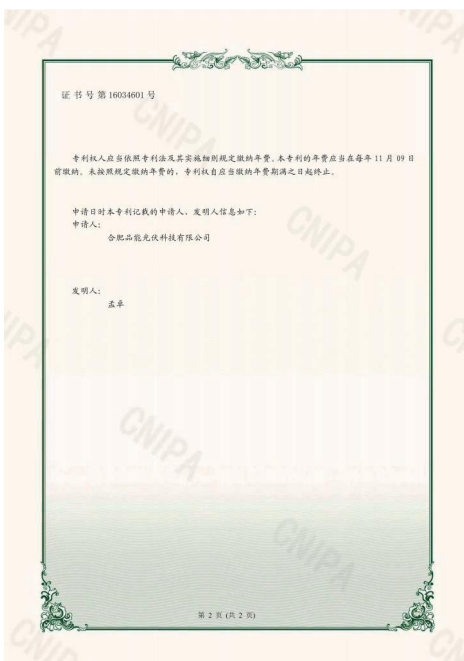
40%

Employees in R&D

6

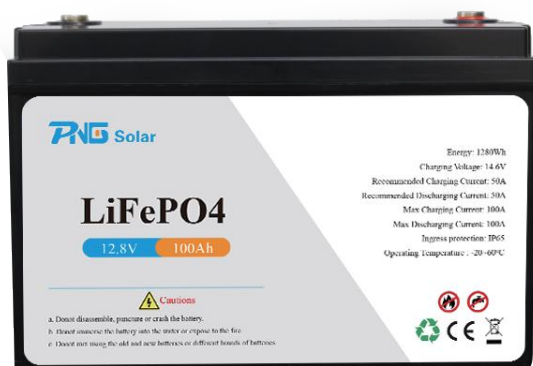
Continents Covered





# Residential ESS

12.8V 100/200Ah



## Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



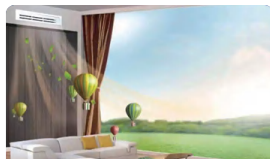
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-E12100-LV	PNG-E12200-LV
Nominal Voltage	12.8V	
Nominal Capacity	100Ah	200Ah
Nominal Energy	1.28kWh	2.56kWh
Output Voltage Range	10.8-14.6V	
Charge Voltage Range	12.8-14.6V	
Discharge Cut-off Voltage	10.8V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Scalability	Up to 15pcs connected in parallel	
Depth of Discharge (DOD)	80%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen (Optional)	
Protection Level	IP65	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥4000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	3years	
Installation	Floor-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	255*165*215mm	480*165*240mm
Weight	16kgs	28kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoid consistent discharging with high-current (>1C), in case of over-heat.

### 3. Cautions

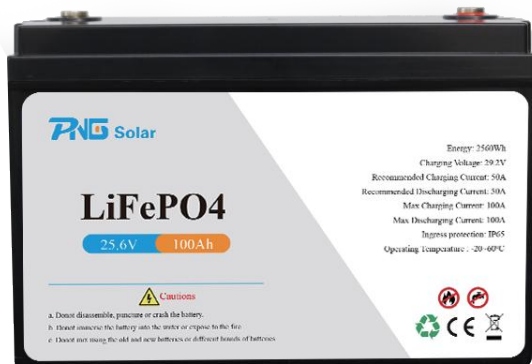
- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.





# Residential ESS

25.6V 100/200Ah



## Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-E24100-LV	PNG-E24200-LV
Nominal Voltage	25.6V	
Nominal Capacity	100Ah	200Ah
Nominal Energy	2.56kWh	5.12kWh
Output Voltage Range	21.6-29.2V	
Charge Voltage Range	25.6-29.2V	
Discharge Cut-off Voltage	21.6V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Scalability	Up to 15pcs connected in parallel	
Depth of Discharge (DOD)	80%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen (Optional)	
Protection Level	IP65	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥4000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	3years	
Installation	Floor-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	480*165*240mm	635*240*225mm
Weight	30kgs	40kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoid consistent discharging with high-current (>1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.





# Residential ESS

## LiFePO4 Lithium Battery Pack Wall-Mounted Model



### Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



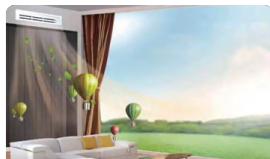
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-E51100-LV	PNG-E51200-LV
Nominal Voltage	51.2V	
Nominal Capacity	100Ah	200Ah
Nominal Energy	5.12kWh	10.24kWh
Output Voltage Range	43.2-58.4V	
Charge Voltage Range	51.2-58.4V	
Discharge Cut-off Voltage	43.2V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Scalability	Up to 15pcs connected in parallel	
Depth of Discharge (DOD)	80%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54(Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥6000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	5years	
Installation	Wall-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	360*163*550mm	480*197*780mm
Weight	41kgs	80kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1.Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoide consistant discharging with high-current (>1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.



# Residential ESS

## LiFePO4 Lithium Battery Pack Portable Model



### Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



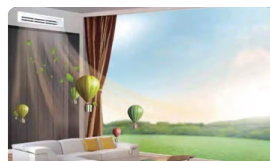
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-E48280-LV	PNG-E51280-LV
Nominal Voltage	48V	51.2V
Nominal Capacity	280Ah	
Nominal Energy	13.44kWh	14.34kWh
Output Voltage Range	40.5-54.75V	43.2-58.4V
Charge Voltage Range	48-54.75V	51.2-58.4V
Discharge Cut-off Voltage	40.5V	43.2V
Max. Charge/ Discharge Current	200A	
Recommend Charge Current (Continuous)	70A	
Scalability	Up to 15pcs connected in parallel	
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54(Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥8000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	5years	
Installation	Wall-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	550*270*728mm	
Weight	114kgs	120kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoid consistent discharging with high-current (>1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.



# Residential ESS

5KW Inverter Integrated with 5KWH  
LiFePO4 All-in-one Model



## Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



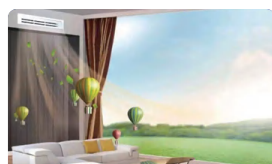
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-E51100-LV	PNG-E51200-LV
<b>Battery Specification</b>		
Nominal Energy	51.2V 100Ah	51.2V 200Ah
Output Voltage Range	43.2-58.4V	
Charge Voltage Range	51.2-58.4V	
Discharge Cut-off Voltage	43.2V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Cycle life	≥6000cycles	
<b>PV Specification</b>		
Max. Input Power	5500W	
Input Voltage Range	120-500VDC	
<b>AC Specification</b>		
Rated Power	5000W	
Rated Output Voltage	220/230/240Vac±5% (L+N+PE)	
Rated Input Voltage	90-280Vac (normal mode)	170-280Vac (UPS mode)
Rated Frequency	50/60Hz	
Wave	Pure Sine Wave	
<b>All-in-one Specification</b>		
Net Weight	57kgs	100kgs
Net Dimension (L*W*H)	480*160*850mm	540*160*1100mm
G.W	78kgs	128kgs
Dimension after Packaging	550*370*950mm	720*370*1270mm
Operating Temperature	Charge: 0°C~+55°C. Discharge: -20°C~+55°C. Storage:10°C~+45°C	
Indicator	Running/Alarm/SOC	
Communication	RS485/CAN/WIFI	
Installation	Wall-Mounted	
Certifications	MSDS/UN38.3/IEC/CE etc.	
Scalability	Up to 9pcs connected in parallel	

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.      b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.  
b. Please avoid constant discharging with high-current (> 1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.      b. It's forbidden to immerse the battery into the water or expose to the fire.  
c. It's forbidden to mix using the old and new batteries or different brands of batteries.





# Residential ESS

## LiFePO4 Lithium Battery Pack Low Voltage Stackable Model



### Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



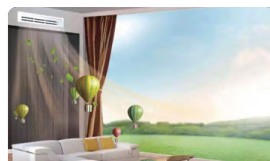
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-ES51100-LV	PNG-ES51200-LV
Nominal Voltage	51.2V	
Nominal Capacity	100Ah	200Ah
Nominal Energy	5.12kWh	10.24kWh
Output Voltage Range	43.2-58.4V	
Charge Voltage Range	51.2-58.4V	
Discharge Cut-off Voltage	43.2V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Scalability	Up to 8pcs connected in parallel	
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54 (Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥6000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	5years	
Installation	Floor-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	650*370*160mm	650*370*320mm
Weight	42kgs	84kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoide consistant discharging with high-current (>1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.



# Residential ESS

LiFePO4 Lithium Battery Pack  
High Voltage Stackable Model



## Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



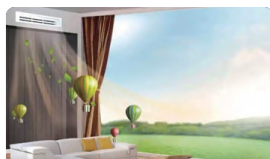
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-ES102100-LV	PNG-ES154100-LV
Nominal Voltage	102.4V	153.6V
Nominal Capacity	100Ah	
Nominal Energy	10.24kWh	15.36kWh
Output Voltage Range	86.4-116.8V	129.6-175.2V
Charge Voltage Range	116.8V	175.2V
Discharge Cut-off Voltage	86.4V	129.6V
Max. Charge/ Discharge Current	1C, 100A	
Recommend Charge Current (Continuous)	0.5C, 50A	
Scalability	Up to 8pcs connected in parallel	
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54 (Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥6000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	5years	
Installation	Floor-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	650*370*480mm	650*370*640mm
Weight	100kgs	140kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoid consistent discharging with high-current (>1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.



# Residential ESS

## LiFePO4 Lithium Battery Pack Low Voltage Rack-Mounted Model



### Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



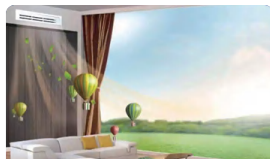
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-ER51100-LV	PNG-ER51200-LV
Nominal Voltage	51.2V	
Nominal Capacity	100Ah	200Ah
Nominal Energy	5.12kWh	10.24kWh
Output Voltage Range	43.2-58.4V	
Charge Voltage Range	51.2-58.4V	
Discharge Cut-off Voltage	43.2V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Scalability	Up to 8pcs connected in parallel	
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54 (Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥6000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	5years	
Installation	Floor-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	480*460*134mm	480*460*268mm
Weight	42kgs	84kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoid consistent discharging with high-current (>1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.





# Residential ESS

LiFePO4 Lithium Battery Pack  
High Voltage Stackable Model



## Product Features:



**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**High Scalability**  
Up to 15pcs to connect in parallel



**Wide Compatibility**  
Compatible with most of the leading inverter brands



**Advanced Battery Management System**  
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



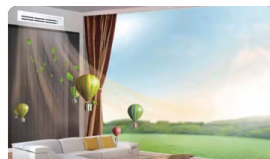
**Environmentally Friendly**  
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG-ER51100-LV	PNG-ER102100-LV
Nominal Voltage	51.2V	102.4V
Nominal Capacity	100Ah	
Nominal Energy	5.12kWh	10.24kWh
Output Voltage Range	43.2-58.4V	86.4-113.8V
Charge Voltage Range	51.2-58.4V	102.4-116.8V
Discharge Cut-off Voltage	86.4V	129.6V
Max. Charge/ Discharge Current	1C, 100A	
Recommend Charge Current (Continuous)	0.5C, 50A	
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54 (Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55	
Storage Temperature Range	-10°C~+30°C	
Humidity	5%~95% RH	
Cycle Life	≥6000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	5years	
Installation	Floor-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	650*370*160mm	650*370*320mm
Weight	42kgs	84kgs

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

### 1. Charging Management

- a. Pls use the lithium battery charger.
- b. It's forbidden to charge the battery under 0°C.

### 2. Discharging Management

- a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
- b. Please avoid constant discharging with high-current (> 1C), in case of over-heat.

### 3. Cautions

- a. It's forbidden to disassemble, puncture or crash the battery.
- b. It's forbidden to immerse the battery into the water or expose to the fire.
- c. It's forbidden to mix using the old and new batteries or different brands of batteries.



## C&I ESS

30KW Inverter With 90KWH LiFePO4



### Product Features:

- Higher safe performance and longer cycle life
- Easy to install and deploy with large space utilization
- Unique modular design & flexible function configuration
- With self-use, peak shifting, forced charging & discharging and other working modes
- Strong scalability, simple & convenient expansion on both AC and DC sides

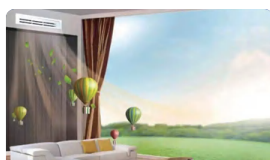


Battery Specification	
Number of Battery Packs	12
Rated Voltage	614.4V
Voltage Range	537.6~700.8V
Rated Energy	60kWh
Max. Continuous Charging and Discharging Current	100A
Communication	RS485/CAN
Cycle Life	6000 times
PV Specification	
Max.PV Input Power	39kW
Rated Input Voltage	600VDC
Max.Input Voltage	1000VDC
MPPT Voltage Range	200~850VDC
PV Input Current	36+36+36(A)
AC Side Specification	
AC Rated Input/Output Power	30kVA
AC Max. Input/Output Power	33kVA
AC Rated Input/Output Current	45.6A
AC Max. Input/Output Power	60A
Voltage	3L/N/PE; 230/400V
Frequency	50/60Hz
THDi	≤3%
Power Factor	0.8 leading to 0.8 lagging
System Specification	
Dimension (W*H*D)	1520*2100*900mm
Weight	837kg
Communication	CAN/RS485/WiFi/ETH
Warranty	10 years
Expansion	Support in parallel up to 150kW/180kWh
Protection Level	IP55
Cooling	Air-cooling
Environment temperature	-30~50°C
Humidity	10%~95%RH
Altitude	<2000m
Certifications	UN38.3/CE/IEC62619/CEI 0-21/VDE-AR-N 4105/IEC 62109

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

# C&I ESS

## 100KW PCS With 215KWH LiFePO4



### Product Features:



**Higher Safe Performance and Longer Cycle Life**

With breaker and fuse



**ECONOMIC**

Zero power loss through efficient temperature control and frequency variation.



**Wide Compatibility**

Compatible with most of the leading inverter brands



**Advanced Battery Management System**

Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



**Environmentally Friendly**

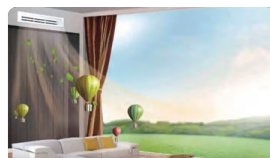
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG215kWh-100kW
<b>Battery Module Data</b>	
Battery Type	LFP 3.2V/280Ah
Battery Pack Capacity	53.76kWh
Battery System Capacity	215kWh
Operating Voltage Range	672 ~ 876V
Number of Temperature Sensor	128
Battery Pack Protection Level	IP67
<b>AC Output Data</b>	
Rated Output Power	100kW
Peak Output Power	110kW
THDi	<3%
Nominal Voltage	380/400Vac, 3L/N/PE
Power Factor	>0.99
Adjustable Power Factor Range	-1 ~ 1 (leading ~ lagging)
Nominal Frequency	50/60Hz
<b>System Data</b>	
Round Trip Efficiency	>89%
Depth of Discharge (DOD)	0 ~ 100%
Cycle Life	≥8000@70%EOL
Communication Interfaces	Ethernet
Protection Level	IP54
Cooling Type	Liquid cooling
Altitude	≤3000m
Operation Temperature	-25 ~ 55°C
Operation Humidity	0 ~ 95%, non-condensing
Noise	<75dB @1m
Dimension (W*D*H)	1040*1500*2200mm
Fire Protection	Aerosol
Weight	<2500kg
Grid Code	CEI-021/EN 50549-1/EN 50549-2
Safety/EMC	IEC 62619/IEC 60730-1 appended H/IEC 62477-1/IEC 61000-6-2, 4/UN 38.3

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances





# World-Class Components Suppliers

Chooses world-class suppliers to ensure the high quality of its products.

## Low Voltage:

**Deye** 德業

**GROWATT**

**GOODWE**

**SOFAR**  
首航新能源

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**Afore**

**NEXT**  
Next Power

**Voltronic Power**  
Advancing Power

**MEGAREVO**

**SUMRY**

**LU X POWER<sup>TEK</sup>**

**SRNE** 硕日

**SOROTEC**  
Power Solutions Expert

**TBB POWER**



## High Voltage:

**Deye** 德業

**GROWATT**

**GOODWE**

**SOFAR**  
首航新能源

**solis**

**Afore**

**MEGAREVO**

**LU X POWER<sup>TEK</sup>**

**ATESS**

**科曜能源**  
KOYOE



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