

Hefei Pinergy Solar Technology Co.,Ltd  
[info@pnsolarpv.com](mailto: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**

**200%**

**200+**

Annual Production Capacity

Annual Business Growth

Total Employees

**100+**

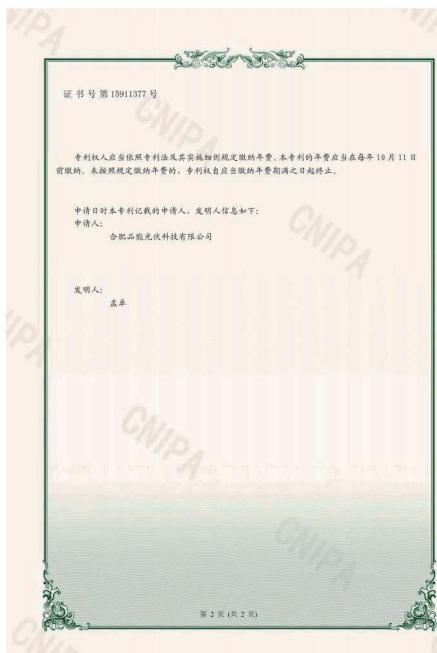
**40%**

**6**

Countries Covered

Employees in R&D

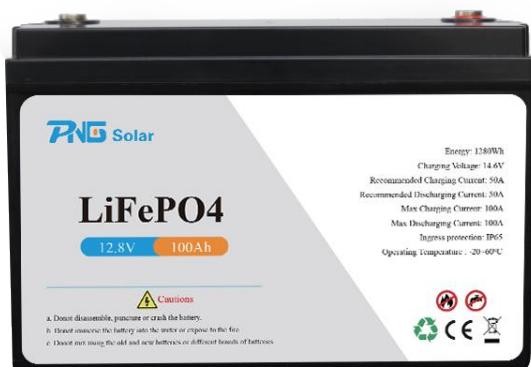
Continents Covered





# Residential ESS

12.8V 100/200Ah



## Product Features:



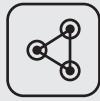
Higher Safe Performance and Longer Cycle Life

With breaker and fuse



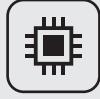
High Scalability

Scalable



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	IP54	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55°C	
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.

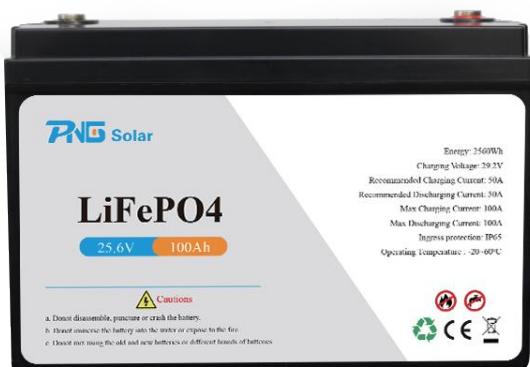
### 3. Cautions

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:



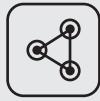
### Higher Safe Performance and Longer Cycle Life

With breaker and fuse



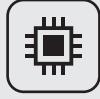
### High Scalability

Scalable



### 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	IP54	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55°C	
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 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 Wall-Mounted Model



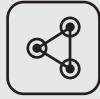
### Product Features:



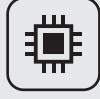
**Higher Safe Performance and Longer Cycle Life**  
With breaker and fuse



**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°C	
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.

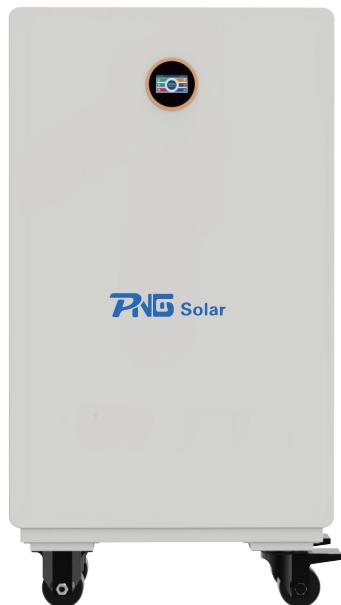
### 3. Cautions

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:



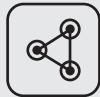
#### Higher Safe Performance and Longer Cycle Life

With breaker and fuse



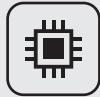
#### High Scalability

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

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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°C	
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 avoide consistant discharging with high-current (>1C), in case of over-heat.

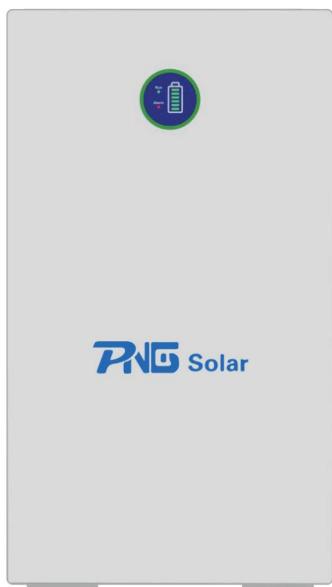
### 3. Cautions

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



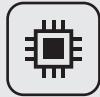
#### High Scalability

Up to 15pcs to connect in parallel



#### Wide Compatibility

Compatible with most of the leading inverter brands



#### Advanced Battery Management System

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#### Environmentally Friendly

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Model	PNG-E51314-LV
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Nominal Energy	16.076kWh
Output Voltage Range	43.2-58.4V
Charge Voltage Range	51.2-58.4V
Discharge Cut-off Voltage	43.2V
Max. Charge/ Discharge Current	140/150A
Recommend Charge Current (Continuous)	63A
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°C
Storage Temperature Range	-10°C~+30°C
Humidity	5%~95% RH
Cycle Life	≥6000cycles
Design Life	10 years
Protection	Built-in smart BMS, Breaker, Fuse
Communication Port	CAN / RS485
Warranty	5years
Installation	Wall-Mounted
Cooling Mode	Air-cooling
Dimension(L*W*H)	479*274*890mm
Weight	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



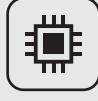
High Scalability

Scalable



Wide Compatibility

Compatible with most of the leading inverter brands



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Environmentally Friendly

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Model	100	200
<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 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 Stackable Model



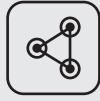
## Product Features:



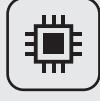
Higher Safe Performance and Longer Cycle Life  
With breaker and fuse



High Scalability  
Scalable



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	51100	51200	51300	51400
Nominal Voltage	51.2V			
Nominal Capacity	100Ah	200Ah	300Ah	400Ah
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Output Voltage Range	44.8-58.4V			
Charge Voltage Range	51.2-58.4V			
Discharge Cut-off Voltage	44.8V			
Max. Charge/ Discharge Current	100A	200A	200A	200A
Recommend Charge Current (Continuous)	50A	100A	140A	140A
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°C			
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	650*370*480mm	650*370*640mm
Weight	42kgs	84kgs	129kgs	172kgs

## 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



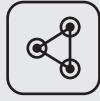
## Product Features:



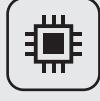
Higher Safe Performance and Longer Cycle Life  
With breaker and fuse



High Scalability  
Scalable



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  
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Model	51100	102100	153100	204100
Nominal Voltage	51.2V	102.4V	153.6V	204.8V
Nominal Capacity		100Ah		
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Output Voltage Range	44.8-58.4V	86.4-116.8V	134.4-175.2V	179.2-233.6V
Charge Voltage Range	51.2-58.4V	102.4-116.8V	153.6-175.2V	204.8-233.6V
Discharge Cut-off Voltage	44.8V	86.4V	134.4V	179.2V
Max. Charge/ Discharge Current		100A		
Recommend Charge Current (Continuous)		50A		
Scalability		Up to 4pcs 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°C		
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*480mm	650*370*525mm	650*370*700mm
Weight	45kgs	100kgs	160kgs	205kgs

## 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



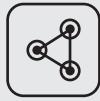
## Product Features:



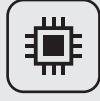
Higher Safe Performance and Longer Cycle Life  
With breaker and fuse



High Scalability  
Scalable



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	100	200	300	400
Nominal Voltage	51.2V			
Nominal Capacity	100Ah	200Ah	300Ah	400Ah
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Output Voltage Range	43.2-58.4V			
Charge Voltage Range	51.2-58.4V			
Discharge Cut-off Voltage	43.2V			
Max. Charge/ Discharge Current	100A	200A	300A	400A
Recommend Charge Current (Continuous)	50A	100A	140A	140A
Scalability	Up to 15pcs connected in parallel			
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%			
Display Type	LCD Screen			
Protection Level	IP21 (Indoor)			
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55°C			
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(W*D*H)	480*460*134mm	480*460*268mm	480*460*402mm	480*460*536mm
Weight	42kgs	84kgs	132kgs	176kgs

## 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 Rack-mounted Model



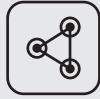
## Product Features:



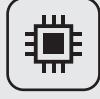
Higher Safe Performance and Longer Cycle Life  
With breaker and fuse



High Scalability  
Scalable



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	51100	102100	153100	204100
Nominal Voltage	51.2V	102.4V	153.6V	204.8V
Nominal Capacity			100Ah	
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Output Voltage Range	43.2-58.4V	86.4-113.8V	134.4-175.2V	179.2-233.6V
Charge Voltage Range	51.2-58.4V	102.4-116.8V	153.6-175.2V	204.8-233.6V
Discharge Cut-off Voltage	86.4V	129.6V	134.4V	179.2V
Max. Charge/ Discharge Current		100A		
Recommend Charge Current (Continuous)			50A	
Depth of Discharge (DOD)		90%/25°C/0.5C, SOC≥80%		
Display Type		LCD Screen		
Protection Level		IP21 (Indoor)		
Working Temperature Range		Charge: 0°C~+55°C. Discharge: -20°C~+55°C		
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	650*370*702mm	650*370*862mm
Weight	42kgs	84kgs	156kgs	198kgs

## 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.



## C&I ESS

### 30KW Inverter With 60KWH 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



<b>Battery Specification</b>		<b>PNG30KW-60kWh</b>
Number of Battery Packs		6
Rated Voltage		307.2V
Voltage Range		268.8~350.4V
Rated Energy		60kWh
Max. Continuous Charging and Discharging Current		100A
Communication		RS485/CAN
Cycle Life		6000 times
<b>PV Specification</b>		
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)
<b>AC Side Specification</b>		
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
<b>System Specification</b>		
Dimension (W*H*D)		840*1045*1550mm
Weight		960kg
Communication		CAN/RS485/WiFi/ETH
Warranty		10 years
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

40KW PCS With 80KWH LiFePO4



### Product Features:



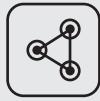
Higher Safe Performance and Longer Cycle Life

With breaker and fuse



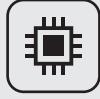
ECONOMIC

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

<b>Battery Specification</b>		<b>PNG40KW-80kWh</b>
Number of Battery Packs		8
Rated Voltage		409.6V
Voltage Range		358.4~467.2V
Rated Energy		81.92kWh
Max. Continuous Charging and Discharging Current		100A
Communication		RS485/CAN
Cycle Life		6000 times
<b>PV Specification</b>		
Max.PV Input Power		52kW
Rated Input Voltage		600VDC
Max.Input Voltage		1000VDC
MPPT Voltage Range		150~850VDC
PV Input Current		36+36+36+36(A)
<b>AC Side Specification</b>		
AC Rated Input/Output Power		40kVA
AC Max. Input/Output Power		44kVA
AC Rated Input/Output Current		60.7 / 58A
AC Max. Input/Output Power		66.7 / 63.8A
Voltage		3L/N/PE; 230/400V
Frequency		50/60Hz
THDi		≤3%
Power Factor		0.8 leading to 0.8 lagging
<b>System Specification</b>		
Dimension (W*H*D)		840*1045*1870mm
Weight		1050kgs
Communication		CAN/RS485/WiFi/ETH
Warranty		10 years
Protection Level		IP55
Cooling		Air-cooling
Environment temperature		-30°C~50°C
Humidity		10%~95%RH
Altitude		<2000m
Certifications		UN38.3/CE/IEC62619/CEI 0-21/VDE-AR-N 4105/IEC 62109

### Application Scenarios



## C&I ESS

50KW PCS With 100/114KWH LiFePO4  
All-in-one Cabinet



### Product Features:



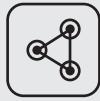
#### Higher Safe Performance and Longer Cycle Life

With breaker and fuse



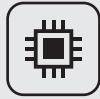
#### ECONOMIC

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

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Model	PNG50kW—100kWh	PNG50kW—114kWh		
<b>Battery Data</b>				
Nominal Energy	100.3kWh	114.6kWh		
Nominal Voltage	358.4V	409.6V		
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)			
Cycle Life	≥8000 cycles (@25°C/0.5P)			
Cell Specification	3.2V 280Ah			
Battery Pack Energy	14.336kWh			
Number of Racks	1			
String Configuration	1P112S	1P128S		
Operation Voltage	313.6V~408.8V	358.4V~467.2V		
Rated Charging Power	0.5P			
Rated Discharging Power	0.5P			
<b>Safety</b>				
Fire Suppression System	Aerosol fire extinguishing			
<b>Inverter Data</b>				
Rated Power	50kW			
Please Refer To The Pcs Section For More Details.				
<b>General</b>				
Dimensions (W*D*H)	1050*1180*2250mm			
Weight	Approximately 1200kg	Approximately 1250kg		
IP Rating	IP55			
Cooling Method	Liquid cooling			
Operation Temperature	-20°C ~+ 50°C			
Storage Temperature	-20°C~+ 45°C			
Relative Humidity	15%~90% (Non-condensing)			
Operating Altitude	≤3000m			
Communication Interfaces	LAN/CAN/RS485			
Compliance	IEC 62619, IEC/EN 61000, UN 38.3, MSDS			

## Application Scenarios



Refrigerator



Air System



Lighting

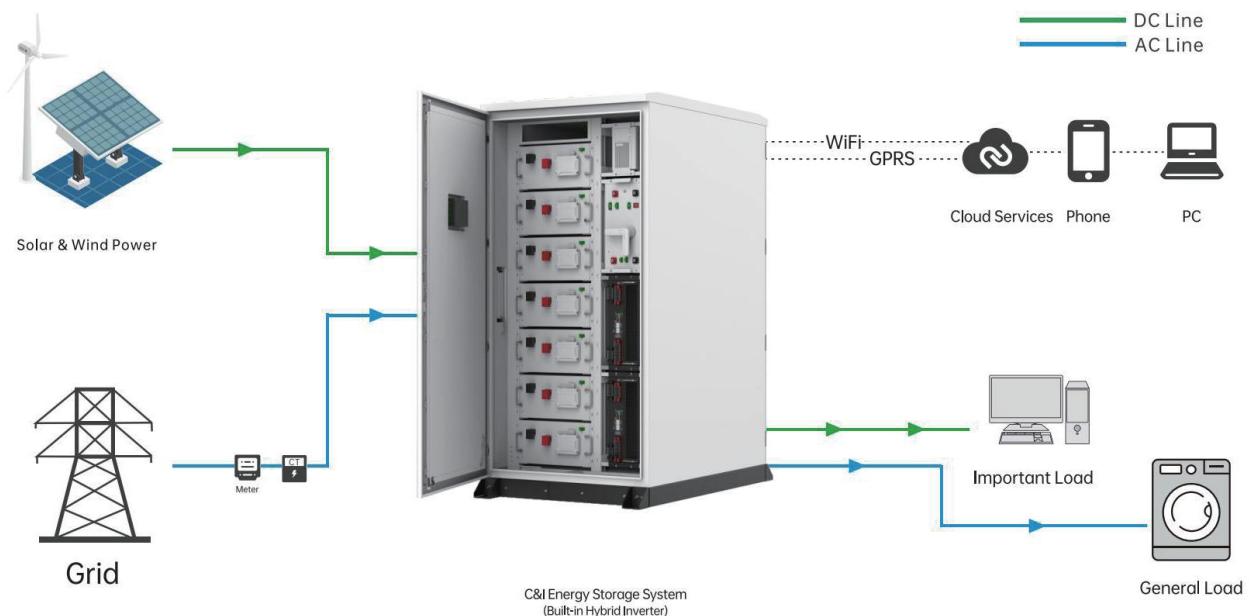


Small Home Appliances





## Product Features:



Model	S6-EH3P50K-H
<b>Input DC (PV side)</b>	
Recommended max. PV array size	100kW
Max. usable PV input power	96kW
Max. input voltage	1000V
Rated voltage	600V
Start-up voltage	180V
MPPT voltage range	150-850V
Max. input current	4×40A
Max. short circuit current	4×40A
MPPT number/ Max. input strings number	4/8
<b>Battery</b>	
Battery type	Li-ion
Battery voltage range	150-800V
Max. charge/ discharge power	55kW
Max. charge / discharge current	70A×2 <sup>(1)</sup>
Number of battery inputs	2
Max. charge / discharge power of each inputs	35kW
Communication	CAN/RS485
<b>Output AC (Grid side)</b>	
Rated output power	50kW
Max. apparent output power	50kWA
Rated grid voltage	3 / N / PE, 220V / 380V, 230V / 400V
Rated grid frequency	50Hz / 60Hz
Rated grid output current	76A / 72.2A
Max. output current	76A / 72.2A
Power factor	>0.99 (0.8lagging-0.8lagging)
THDI	<3%
<b>Input AC (Grid side)</b>	
Max. AC passthrough current	152A / 144.4A
Rated input voltage	3 / N / PE, 220V / 380V; 3 / N / PE, 230V / 400V
Rated input frequency	50Hz / 60Hz
<b>Input Generator</b>	
Max. input power	50kW
Rated input current	76A / 72.2A
Rated input voltage	3 / N / PE, 220V / 380V; 3 / N / PE, 230V / 400V
Rated input frequency	50Hz / 60Hz
<b>Output AC (Back-up)</b>	
Rated output power	30kW
Max. apparent output power	1.6 times of rated power, 2s

Model	S6-EH3P50K-H
Back-up switch time	<10ms
Rated output voltage	3 / N / PE, 220V / 380V; 3 / N / PE, 230V / 400V
Rated frequency	50Hz / 60Hz
Rated output current	45.6A / 43.3A
THDv (@linear load)	<2%
<b>Efficiency</b>	
Max. efficiency	97.8%
EU efficiency	97.4%
BAT charged/discharged to AC max. efficiency	98.5%
BAT charged/discharged to Ac max. Efficiency	97.5%
<b>Protection</b>	
Anti-islanding protection	Yes
Output over current protection	Yes
Short circuit protection	Yes
Integrated DC switch	Yes
DC reverse-polarity protection	Yes
Surge protection	DC Type II / AC Type II
Integrated AFCI 2.0	Optional
<b>General Data</b>	
Dimensions (W x H x D)	530×880×290 mm
Weight	73 kg
Topology	Transformerless
Self-consumption (night)	<35W
Operating ambient temperature range	-25°C~ +60°C
Relative humidity	0-95%
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	G99, VDE-AR-N 4105 / VDEVO124, EN 50549-1&2 / EN 50549-10, VDE0126 / UTEC15 / VFR:2019, NTS631 / RD 1699 / RD 244 / UNE206006 / UNE206007-1, CE10-21,C10/11.NRS097-2-1, TOR, EIFS2018.2, IEC62116, IEC61727, IEC60068, IEC61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARCO DE2022
Safety/ EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-264, EN 55011
<b>Features</b>	
PV connection	MC4 Quick connection plug
Battery connection	Terminal connector
AC connection	Terminal block
Display	7.0" LCDdisplay & Bluetooth + APP
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN

(1) Supporting parallel 140A input.



# C&I ESS

PNG100KW-200kWh



## Product Features:



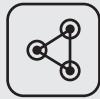
### Higher Safe Performance and Longer Cycle Life

With breaker and fuse



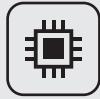
### ECONOMIC

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	PNG100KW-200kWh
<b>Battery Data</b>	
Nominal Energy	200.704kWh
Nominal Voltage	716.8V
Cycle Life	≥8000 cycles (@28°C, 0.5P/0.5P)
Cell Specification	3.2V 280Ah
Battery Pack Energy	14.336kWh
String Configuration	1P224S
Number of Racks	1
Operation Voltage	604.8V~817.4V
Rated Charging Power	0.5P
Rated Discharging Power	0.5P
<b>Safety</b>	
Fire Suppression System	Aerosol fire extinguishing
<b>General</b>	
Dimensions (W*D*H)	1700*1425*2500mm
Weight	Approximately 2300kg
IP Rating	IP54
Cooling Method	Smart air cooling
Operation Temperature	-20°C ~+ 55°C
Storage Temperature	-30°C~+60°C
Relative Humidity	15%~90% (Non-condensing)
Operating Altitude	≤3000m
Communication Interfaces	LAN/CAN/RS485
Compliance	IEC 62619, IEC/EN 61000, UN 38.3, MSDS
Operation Humidity	

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances



## C&I ESS

100KW PCS With 215KWH LiFePO4



### Product Features:



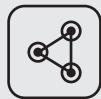
#### Higher Safe Performance and Longer Cycle Life

With breaker and fuse



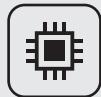
#### ECONOMIC

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#### Wide Compatibility

Compatible with most of the leading inverter brands



#### Advanced Battery Management System

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#### Environmentally Friendly

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Model	PNG100KW-215kWh
<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°C ~ 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



## C&I ESS

125KW PCS With 241KWH LiFePO4  
All-in-one Cabinet



### Product Features:



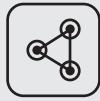
#### Higher Safe Performance and Longer Cycle Life

With breaker and fuse



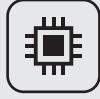
#### ECONOMIC

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	PNG125kW—241kWh
<b>Battery Data</b>	
Nominal Energy	241.15kWh
Nominal Voltage	768V
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Cycle Life	≥8000 cycles (@25°C/0.5P)
Cell Specification	3.2V 314Ah
Battery Pack Energy	48.23kWh
String Configuration	1P240S
Number of Racks	1
Operation Voltage	672V~876V
Rated Charging Power	0.5P
Rated Discharging Power	0.5P
Fire Suppression System	Aerosol fire extinguishing
<b>Inverter Data</b>	
Rated Power	125kW
Please Refer To The Pcs Section For More Details.	
<b>General</b>	
Dimensions (W*D*H)	1180*1360*2250mm
Weight	Approximately 2400kg
IP Rating	IP54
Cooling Method	Smart air cooling
Operation Temperature	-20°C ~+ 50°C
Storage Temperature	-20°C~+45°C
Relative Humidity	15%~90% (Non-condensing)
Operating Altitude	≤3000m
Communication Interfaces	LAN/CAN/RS485
Compliance	IEC 62619, IEC/EN 61000, UN 38.3, MSDS

## Application Scenarios



Refrigerator



Air System



Lighting

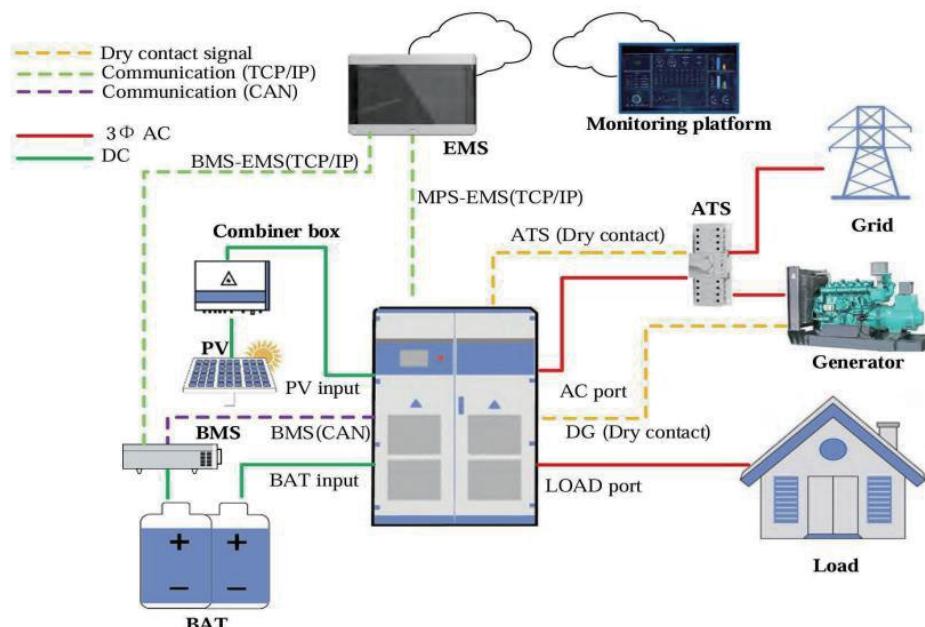


Small Home Appliances



## C&I ESS

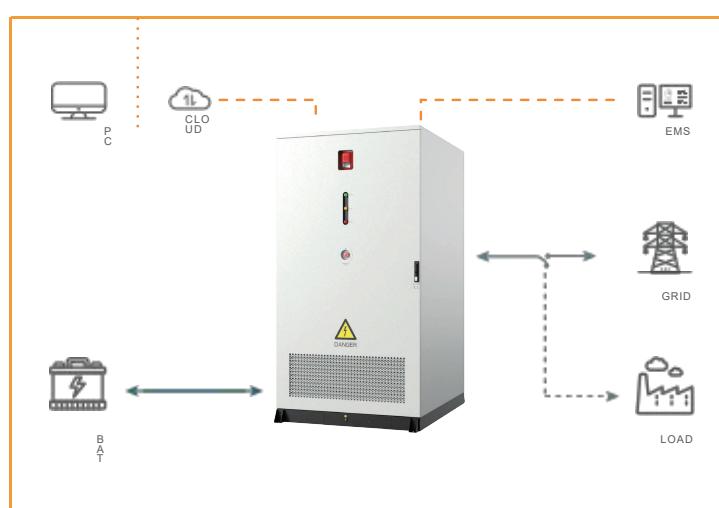
125KW PCS With 241KWH LiFePO4  
All-in-one Cabinet



### Product Features:



PV / Wind Power Energy Storage /  
Commercial & Industrial (C&I) Energy Storage / Grid-Side Energy  
Storage / Solar-Integrated EV Charging / Microgrid



Model	PNG125kW—241kWh
<b>DC Side Parameters</b>	
DC voltage range	DC600V~1000V(Full - load voltage:DC630V-950V limited load voltage:DC600V-630V,DC950V-1000V)
Cycle Life	≥8000 cycles (@28°C, 0.5P/0.5P)
Full-load voltage range	DC630V~950V
Rated DC current	198A
Rated DC power	125kW
<b>AC Side Parameters</b>	
Rated AC power	125kW
Overload capacity	1.1 times (Ambient temperature ≤ 40°C)
Rated voltage	AC400V
Rated AC current	180A
AC access method	Three-phase four-wire
Grid voltage range	400V (-15%~+15%)
Grid frequency range	50Hz / 60Hz±2.5Hz
Total harmonic distortion rate of current	≤ 3% (full load)
Power factor	0.99/-1~1
Current DC component	≤0.5%
Charge and discharge conversion time	<100ms
<b>AC Grid-disconnected Parameters</b>	
AC grid-disconnected voltage	AC400V
AC voltage range	AC400V±3%
AC grid-disconnected frequency	50Hz/60Hz
Grid-disconnected output THDU	≤ 3% (linear load)
Unbalanced load capacity	100%
<b>Other Parameters</b>	
Maximum conversion efficiency	≥99%
Allowable ambient temperature	30°C~50°C (Full - load)
Allowable relative humidity	≤95% (No condensation)
Noise	≤75dB
Protection grade	IP20
Altitude	3000 m(≥2000m for limited load)
Size	W520mm×H240mm×D680mm
Weight	≤70KG
Cooling method	Forced air cooling
Wiring, air-out direction	Primary or secondary at the front air-in from front, air-out from rear (One wiring mode)
BMS communication interface	CAN or RS485
EMS communication interface	Network interface or RS485



## C&I ESS

125KW Inverter With 261KWH LiFePO4  
All-in-one Cabinet



### Product Features:



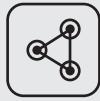
#### Higher Safe Performance and Longer Cycle Life

With breaker and fuse



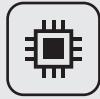
#### ECONOMIC

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	PNG100kW—261kWh	PNG125kW—261kWh
<b>Battery Data</b>		
Nominal Energy		261kWh
Nominal Voltage		832V
Battery Chemistry		Lithium Iron Phosphate (LiFePO4)
Cycle Life		≥8000 cycles (@25°C/0.5P)
Cell Specification		3.2V 314Ah
Battery Pack Energy		52.24kWh
String Configuration		1P260S
Number of Racks		1
Operation Voltage		728V~949V
Rated Charging Power		0.5P
Rated Discharging Power		0.5P
<b>Safety</b>		
Fire Suppression System		Aerosol fire extinguishing
<b>Inverter Data</b>		
Rated Power	100kW	125kW
Please Refer To The Pcs Section For More Details.		
<b>General</b>		
Dimensions (W*D*H)		1300*1450*1890mm
Weight		Approximately 2600kg
IP Rating		IP54
Cooling Method		Liquid cooling
Operation Temperature		-20°C ~+ 50°C
Storage Temperature		-20°C~+ 45°C
Relative Humidity		15%~90% (Non-condensing)
Operating Altitude		≤3000m
Communication Interfaces		LAN/CAN/RS485
Compliance		IEC 62619, IEC/EN 61000, UN 38.3, MSDS

## Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances





Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
<b>Input DC (PV side)</b>		
Recommended max. PV array size	200kW	250kW
Max. usable PV input power	200kW	250kW
Max. input voltage	1000V	
Rated voltage	600V	
Start-up voltage	180V	
MPPT voltage range	150-950V	
Max. input current	10×42A	
Max. short circuit current	10×60A	
MPPT number/ Max. input strings number	10/20	
<b>Battery</b>		
Battery type	Li-ion	
Battery voltage range	300-950V	
Max. charge / discharge current	200A/100A+100A	
Number of battery ports	2	
Max. charge / discharge current of each port	100A	
Communication	CAN/RS485	

Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
<b>Output AC (Grid side)</b>		
Rated output power	100kW	125kW
Max. apparent output power	100kW	125kW
Rated grid voltage	3 / N / PE, 220V / 380V, 230V / 400V	
Rated grid frequency	50Hz / 60Hz	
Rated grid output current	152A / 144.3A	
Power factor	>0.99 (0.8lagging-0.8lagging)	
THDi	<3%	
<b>Input AC (Grid side)</b>		
Max. input current	250A	
<b>Output AC (Back-up)</b>		
Rated output power	100kW	125kW
Max. apparent output power	1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms	1.2 times of rated power, 100 s; 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms
Back-up switch time	<10ms	
Rated output voltage	3 / N / PE, 220V / 380V, 230V / 400V	
Rated frequency	50Hz / 60Hz	
THDv (@linear load)	<2%	
<b>Input AC (Generator)</b>		
Max. input power	100kW	125kW
Rated input current	151.9A / 144.3A	189.9A / 180.4A
Rated input voltage	3 / N / PE, 220V / 380V, 3 / N / PE, 230V / 400V	
Rated input frequency	50Hz / 60Hz	
<b>Efficiency</b>		
Max. efficiency	125kW	
EU efficiency	189.9A / 180.4A	
BAT charged / discharged to AC max. efficiency	3 / N / PE, 220V / 380V, 3 / N / PE, 230V / 400V	
<b>Protection</b>		
Anti-islanding protection	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
Integrated DC switch	Yes	
DC reverse-polarity protection	Yes	
Surge protection	DC Type II / AC Type II	
Integrated AFCI 2.0	Optional	
Protection class/ Over voltage category	I / DC II, ACIII	

Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
<b>General Data</b>		
Max. allowable phase imbalance (grid & back-up)		100%
Max. power per phase (grid & back-up)	33.33kW	41.66kW
Dimensions (W x H x D)	1174×814×400 mm	
Weight	170 kg	
Topology	Transformerless	
Operating ambient temperature range	-25°C~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	3000 m	
Grid connection standard	G99, VDE-AR-N 4105 / VDE0124, EN 50549-1&2 / EN 50549-10, VDE0126 / UTEC15 / VFR:2019, NTS631 / RD 1699 / RD 244 / UNE206006 / UNE206007-1, CE10-21,C10/11.NRS097-2-1, TOR, EIFS2018.2, IEC62116, IEC61727, IEC60068, IEC61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARCO DE2022	
Safety/ EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-264, EN 55011	
<b>Features</b>		
PV connection	MC4 Quick connection plug	
Battery connection	Terminal connector	
AC connection	Terminal block	
Display	7.0" LCD display & Bluetooth + APP	
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN	

## 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:

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**GOODWE**

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 **Voltronic Power**  
Advancing Power

 **MEGAREVO**

 **SUMRY**

 **SRNE** 硕日

 **SOROTEC**  
Power Solutions Expert

 **TBB POMMER**



## High Voltage:

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## Keep In Touch:

Add: No.6, Linquan East Road, Feidong New City Economic Development Zone, 231600 Hefei, Anhui Province, PRC.

✉ info@pnsolarpv.com

🌐 www.pnsolarpv.com

