



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+

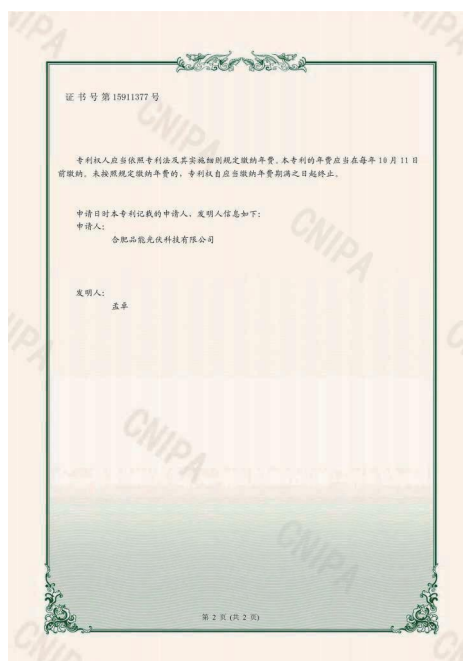
Countries Covered

40%

Employees in R&D

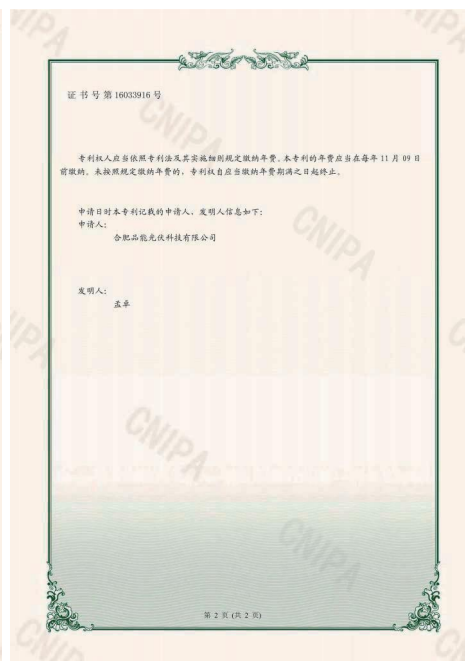
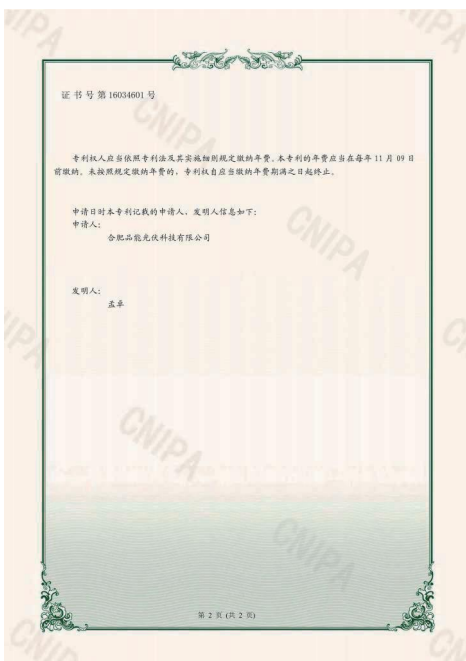
6

Continents Covered



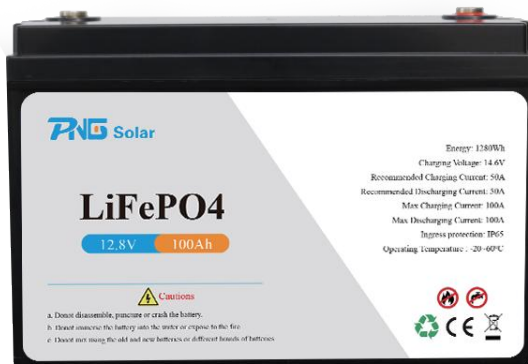


证书编号: CEQS-CP2203257
有效日期: 2022.03-2025.03
主办单位: 全国企业质量监督管理中心
协办单位: 中国品牌价值促进会
全国企业信用公示中心



Residential ESS

12.8V 100/200Ah



Product Features:



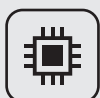
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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



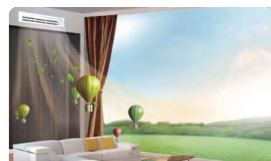
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

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

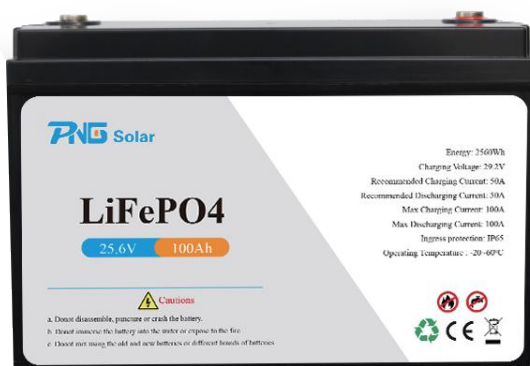
3. Cautions

- 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

25.6V 100/200Ah



Product Features:



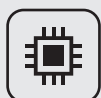
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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



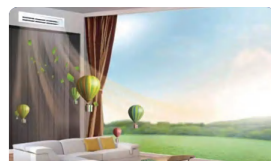
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

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 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 Wall-Mounted Model



Product Features:



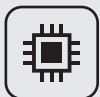
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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



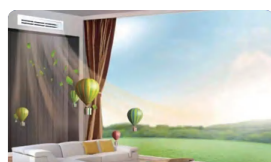
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	HZR-100-16S	HZR-200-16S
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 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:



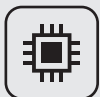
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



High Scalability
Up to 15pcs to connect in parallel



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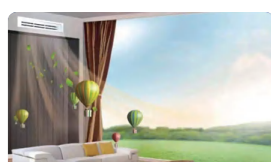
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	HZR-314-16S
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

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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

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Residential ESS

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



Product Features:



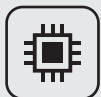
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With breaker and fuse



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Scalable



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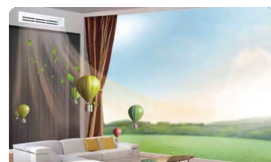
Environmentally Friendly
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Model	100	200
Battery Specification		
Nominal Energy	51.2V 100Ah	51.2V 200Ah
Output Voltage Range	43.2-58.4V	
Charge Voltage Range	51.2-58.4V	
Discharge Cut-off Voltage	43.2V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Cycle life	≥6000cycles	
PV Specification		
Max. Input Power	5500W	
Input Voltage Range	120-500VDC	
AC Specification		
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	
All-in-one Specification		
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:



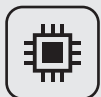
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



High Scalability
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



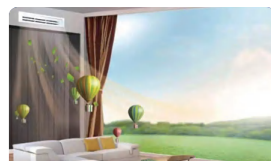
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

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	
Recommend Charge Current (Continuous)	50A	100A	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 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 High Voltage Stackable Model



Product Features:



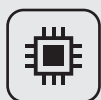
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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Scalable



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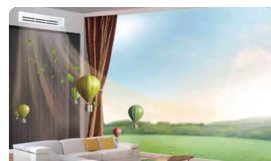
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

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	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 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 Rack-Mounted Model



Product Features:



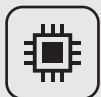
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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



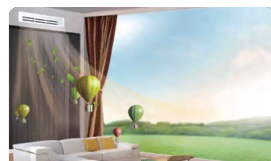
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

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 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 High Voltage Rack-mounted Model



Product Features:



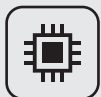
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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



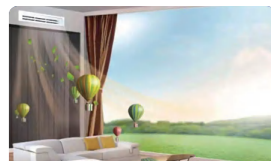
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

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

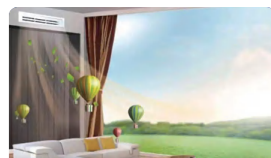


Battery Specification	PNG30KW-60kWh
Number of Battery Packs	6
Rated Voltage	307.2V
Voltage Range	268.8~350.4V
Rated Energy	60kWh
Max. Continuous Charging and Discharging Current	100A
Communication	RS485/CAN
Cycle Life	6000 times
PV Specification	
Max.PV Input Power	39kW
Rated Input Voltage	600VDC
Max.Input 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)	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:



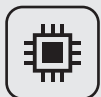
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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

Battery Specification	PNG40KW-80kWh
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
PV Specification	
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)
AC Side Specification	
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
System Specification	
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 96/112KWH LiFePO4
All-in-one Cabinet



Product Features:



Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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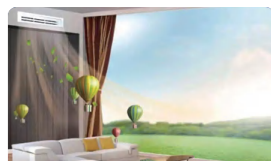
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG50kW—96kWh	PNG50kW—112kWh
Battery Data		
Nominal Energy	96.46kWh	112.54kWh
Nominal Voltage	307.2V	358.4V
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)	
Cycle Life	≥8000 cycles (@25°C/0.5P)	
Cell Specification	3.2V 314Ah	
Battery Pack Energy	16.0768kWh	
Number of Racks	1	
String Configuration	1P96S	1P112S
Operation Voltage	268.8V~345.6V	313.6V~403.2V
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
Inverter Data		
Rated Power	50kW	
Please Refer To The Pcs Section For More Details.		
General		
Dimensions (W*D*H)	1050*1180*2250mm	
Weight	Approximately 1200kg	Approximately 1250kg
IP Rating	IP54	
Cooling Method	Liquid cooling/Fan 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/CE/UN 38.3/MSDS	

Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances



C&I ESS

50KW PCS With 128KWH 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



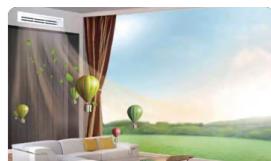
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG50kW—128kWh	
Battery Data		
Nominal Energy	128.6kWh	
Nominal Voltage	409.6V	
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)	
Cycle Life	≥8000 cycles (@25°C/0.5P)	
Cell Specification	3.2V 314Ah	
Battery Pack Energy	16.0768kWh	
Number of Racks	1	
String Configuration	1P128S	
Operation Voltage	358.4V~467.2V	
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
Inverter Data		
Rated Power	50kW	
Please Refer To The Pcs Section For More Details.		
General		
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

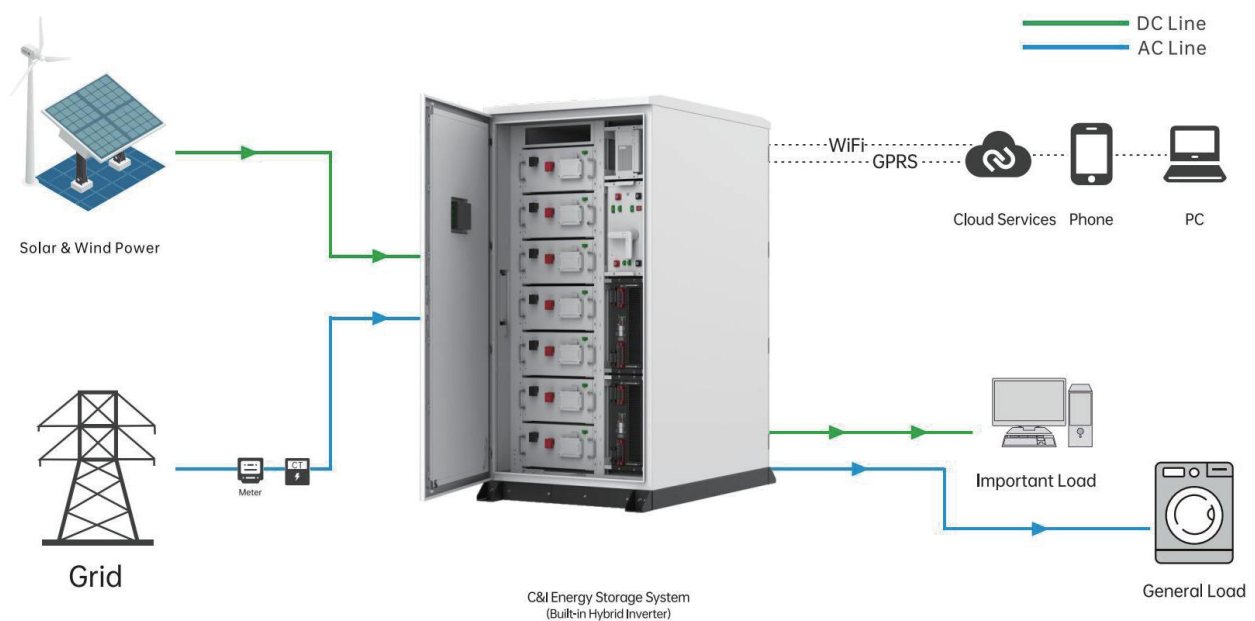


Small Home Appliances





Product Features:



Model	S6-EH3P50K-H
Input DC (PV side)	
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
Battery	
Battery type	Li-ion
Battery voltage range	150-800V
Max. charge/ discharge power	55kW
Max. charge / discharge current	70A×2 ⁽¹⁾
Number of battery inputs	2
Max. charge / discharge power of each inputs	35kW
Communication	CAN/RS485
Output AC (Grid side)	
Rated output power	50kW
Max. apparent output power	50kVA
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 (0.8lwading-0.8lagging)
THDI	<3%
Input AC (Grid side)	
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
Input Generator	
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
Output AC (Back-up)	
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%
Efficiency	
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%
Protection	
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
General Data	
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 61000-6-2&4, EN 55011
Features	
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



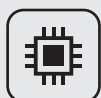
ECONOMIC

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

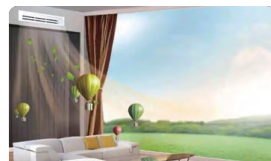
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG100KW-200kWh
Battery Data	
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
Safety	
Fire Suppression System	Aerosol fire extinguishing
General	
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:



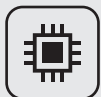
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



ECONOMIC
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Wide Compatibility
Compatible with most of the leading inverter brands



Advanced Battery Management System
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-215kWh
Battery Module Data	
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
AC Output Data	
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
System Data	
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:



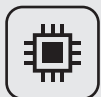
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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



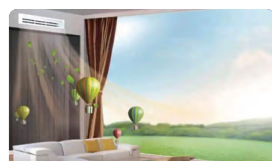
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG125kW—241kWh
Battery Data	
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
Inverter Data	
Rated Power	125kW
Please Refer To The Pcs Section For More Details.	
General	
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

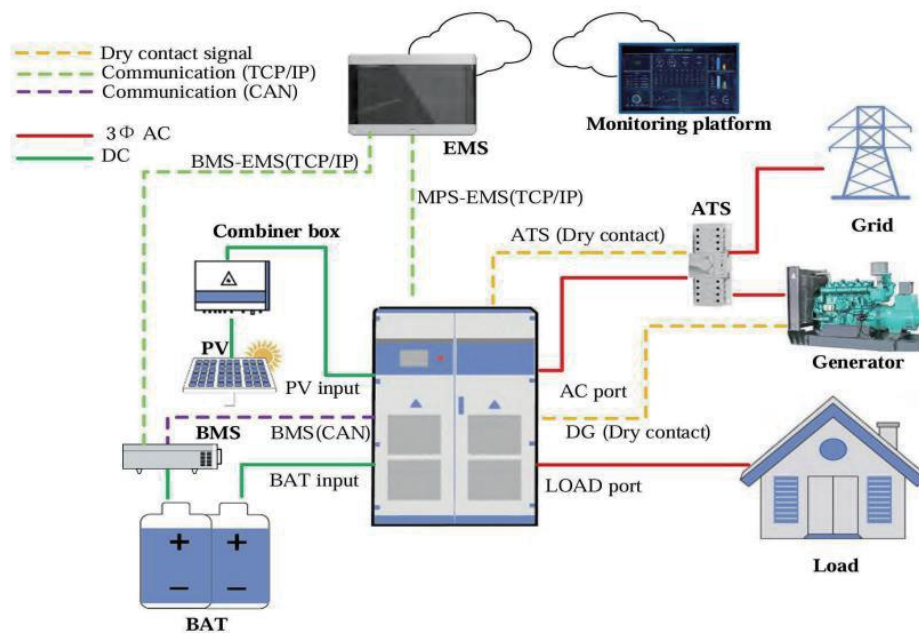


Small Home Appliances



C&I ESS

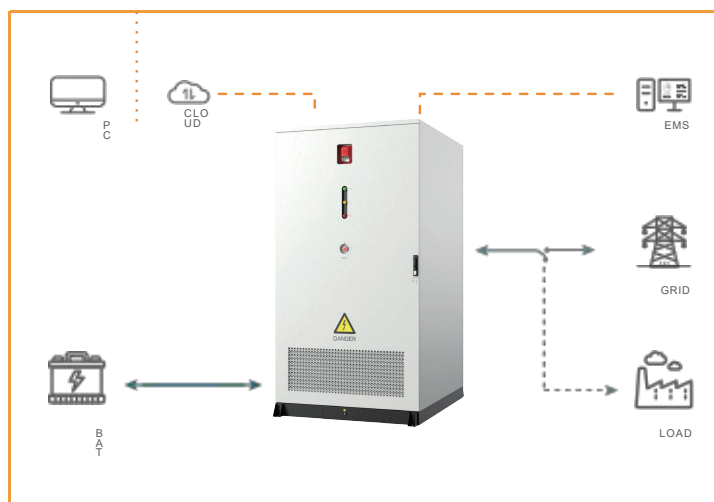
125KW PCS With 241KWH LiFePO4
All-in-one Cabinet



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
DC Side Parameters	
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
AC Side Parameters	
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
AC Grid-disconnected Parameters	
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%
Other Parameters	
Maximum conversion efficiency	≥99%
Allowable ambint 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:



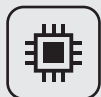
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



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



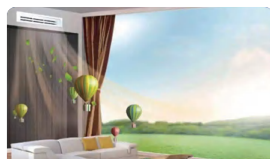
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG100kW—261kWh	PNG125kW—261kWh
Battery Data		
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	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
Inverter Data		
Rated Power	100kW	125kW
Please Refer To The Pcs Section For More Details.		
General		
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
Input DC (PV side)		
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	
Battery		
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
Output AC (Grid side)		
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 (0.8lwading-0.8lagging)	
THDi	<3%	
Input AC (Grid side)		
Max. input current	250A	
Output AC (Back-up)		
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 ofrated 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%	
Input AC (Generator)		
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	
Efficiency		
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	
Protection		
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
General Data		
Max. allowable phaseimbalance (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 / 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	
Features		
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	

Application Scenarios



Refrigerator



Air System



Lighting



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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

