

Residential ESS

LiFePO4 Lithium Battery Pack
Low Voltage Stackable Model



Product Features:



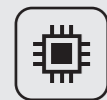
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



High Scalability
Up to 15pcs to connect in parallel



Wide Compatibility
Compatible with most of the leading inverter brands



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



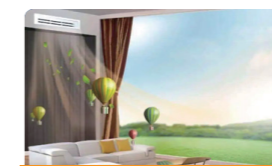
Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

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

Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

1. Charging Management

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

2. Discharging Management

a. Pls charge the battery in time after the battery discharging cut-off to protect the battery cells.
b. Please 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.

