

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

Model	PNG-ES102100-HV	PNG-ES154100-HV
Nominal Voltage	102.4V	153.6V
Nominal Capacity	100Ah	
Nominal Energy	10.24kWh	15.36kWh
Output Voltage Range	86.4-116.8V	129.6-175.2V
Charge Voltage Range	116.8V	175.2V
Discharge Cut-off Voltage	86.4V	129.6V
Max. Charge/ Discharge Current	1C, 100A	
Recommend Charge Current (Continuous)	0.5C, 50A	
Scalability	Up to 8pcs connected in parallel	
Depth of Discharge (DOD)	90%/25°C/0.5C, SOC≥80%	
Display Type	LCD Screen	
Protection Level	IP54 (Indoor)	
Working Temperature Range	Charge: 0°C~+55°C. Discharge: -20°C~+55°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*480mm	650*370*640mm
Weight	100kgs	140kgs

Application Scenarios



Refrigerator



Air System



Lighting



Small Home Appliances

1.Charging Management

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

2. Discharging Management

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

