

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

| | PNG-ER51100-LV | PNG-ER51200-LV |
|---------------------------------------|---|----------------|
| Nominal Voltage | 51.2V | |
| Nominal Capacity | 100Ah | 200Ah |
| Nominal Energy | 5.12kWh | 10.24kWh |
| Output Voltage Range | 43.2-58.4V | |
| Charge Voltage Range | 51.2-58.4V | |
| Discharge Cut-off Voltage | 43.2V | |
| Max. Charge/ Discharge Current | 1C, 100A | 1C, 200A |
| Recommend Charge Current (Continuous) | 0.5C, 50A | 0.5C, 100A |
| | Up to 8pcs connected in parallel | |
| Depth of Discharge (DOD) | 90%/25°C/0.5C, SOC≥80% | |
| | 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 | |
| | 5%~95% RH | |
| | ≥6000cycles | |
| | Built-in smart BMS, Breaker, Fuse | |
| Communication Port | CAN / RS485 | |
| | 5years | |
| | Floor-Mounted | |
| Cooling Mode | Air-cooling | |
| Dimension(L*W*H) | 480*460*134mm | 480*460*268mm |
| | 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.