

# 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  
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-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 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.

