

# Residential ESS

LiFePO4 Lithium Battery Pack  
Portable Model



### Product Features:



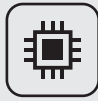
Higher Safe Performance and Longer Cycle Life  
With breaker and fuse



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 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.

