Residential ESS

12.8V 100/200Ah

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-E12100-LV	PNG-E12200-LV
Nominal Voltage	12.8V	
Nominal Capacity	100Ah	200Ah
Nominal Energy	1.28kWh	2.56kWh
Output Voltage Range	10.8-14.6V	
Charge Voltage Range	12.8-14.6V	
Discharge Cut-off Voltage	10.8V	
Max. Charge/ Discharge Current	1C, 100A	1C, 200A
Recommend Charge Current (Continuous)	0.5C, 50A	0.5C, 100A
Scalability	Up to 4pcs connected in parallel	
Depth of Discharge (DOD)	80%/25°C/0.5C， SOC⩾80%	
Display Type	LCD Screen (Optional)	
Protection Level	IP21	
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	⩾4000cycles	
Protection	Built-in smart BMS, Breaker, Fuse	
Communication Port	CAN / RS485	
Warranty	3years	
Installation	Floor-Mounted	
Cooling Mode	Air-cooling	
Dimension(L*W*H)	255*165*215mm	480*165*240mm
Weight	16kgs	28kgs

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.