

# Residential ESS

LiFePO4 Lithium Battery Pack  
Low 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	51100	51200	51300	51400
Nominal Voltage	51.2V			
Nominal Capacity	100Ah	200Ah	300Ah	400Ah
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Output Voltage Range	44.8-58.4V			
Charge Voltage Range	51.2-58.4V			
Discharge Cut-off Voltage	44.8V			
Max. Charge/ Discharge Current	100A	200A	200A	
Recommend Charge Current (Continuous)	50A	100A	140A	
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*160mm	650*370*320mm	650*370*480mm	650*370*640mm
Weight	42kgs	84kgs	129kgs	172kgs

## 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.