

# Solar Home System

## Lithium Battery Solar Storage



**PBR8400U-8.45kWh**

## Product

Our power storage wall ESS adopts the latest HESS battery system.

With rich experience and advanced techniques, the product has the features of the fashionable design, high energy, high power density, long service life, and easiness of installation and expansion, all of which reflect the real requirements of the end users and strongest technical capability of our company.

It is a kind of environmentally friendly backup power system.

We use phosphates rather than cobalt to avoid environmental concerns, lower the possibilities of thermal runaway because of improper disposal, and save the production cost as well.

Compared with other products in the market now, this kind of product experiences a lower rate of capacity loss.

With state-of-the-art power conversion and energy storage technologies, our energy storage system (ESS) offers high-efficiency power conditioning capabilities for demand management, power dispatch, renewable energy smoothing, etc.

Our ESS can provide comprehensive energy storage for residential, commercial and utility applications.

## Features

### ✓ Long life and safety

Vertical industry integration ensures more than 4500 times cycles with 80% DoD.

Safe Lithium iron phosphate battery cell.

### ✓ Intelligent

Each battery with independent BMS system manages power output smartly and effectively.

### ✓ Modularization

Modular design gives the end customers the power of choice of capacity Deliver up to 134.4KW with single max module (8.45KWh) at 16pcs parallel connection.

### ✓ Easy to install and use

Just plug and play to minimize the installation time and cost. Compact and fashionable design fits in your sweet home environment.

### ✓ Compatibility

Compatible with most of the available Hybrid inverters.

### ✓ Safety Cert

UL1642, TUV , IEC62619, CE, UN38.3, MSDS.

## Technical details

### PBR8400U-8.45kWh

<i>Nominal Parameters</i>	
Voltage	51.2V
Capacity	165Ah
Energy	8.45KwH
Dimensions (L x W x H)	680x420x220mm
Weight	75.5kg
<i>Basic Parameters</i>	
Life time(25°C)	10 years
Life cycles(80% DOD, 25°C)	6000Cycles
Storage time / temperature	5 months @ 25°C; 3 months @ 35°C; 1 month @ 45°C
Operation temperature	-20°C to 60°C @60+/-25% Relative Humidity
Storage temperature	0°C to 45°C @60+/-25% Relative Humidity
Lithium Battery Standard	UL1642,IEC62619,UN38.3,ROHS,CE-EMC
Enclosure protection rating	IP54 (Indoor use)
<i>Electrical Parameters</i>	
Operation voltage	46-56 Vdc
Max.charging voltage	56 Vdc
Max.charging and discharging current	150A
Max Power	7680W