

Polymer Lithium Battery Power Storage Household off-grid power storage system

PS3215B

Solar system
prepare household
electricity
ready at all times

Electricity Power Storage

Simple Operation



Energy saving and environmental protection , create economic benefit for family Store electricity every day, ensure daily power continuously.

Solar energy is a clean energy, green and environmental protecting, it makes efficient use of limited resources and reduce CO2 emissions

The energy conservation and emissions reduction consciousness and demand is growing in the society.

It is the time of well storage and smart usage of household electricity.

POWEROAK household power storage system is not only a simple electricity storage, but also the combination of electricity system and solar power system, which realized the life of ICT new electricity power.

(ICT is short for Information and Communication Technology)



Electricity Saving

In the daytime using the electricity stored in the night, energy saving.

Charge the power storage system in night time of less electricity consumption, and in the daytime use the electricity that stored in the night, contribute to restrain power waste.

Connected to solar power generation system , it can supply power directly to household appliances , or charge the power storage system with the redundant power, to reduce the use of electricity from Grid system.



Reassurance

When there is a power failure, the stored electricity can be used as backup power, the product has the function of UPS

When there is a power failure, the product act as an emergency power supply for LCD TV and LED lighting, and other important electric application, to ensure continuous output power.



Remote monitoring support

The battery system utilization can be showed on LCD screen, automatic management and alarm. Or you can use portable terminal and realize remote monitor through the internet, safe use.

POWEROAK household power generation and storage system is able to set different working mode according to household lifestyle.

Household power generation and storage working mode.

General Working Mode (Suitable for areas without solar power generation, off-grid)

Store the electricity in the night when the electric prices are low for daytime electric use, to save the expense for electricity.

Power Saving Mode (Suitable for areas with solar power generation, off-grid)

Connect to solar power generation system, directly invert electricity generated from solar panel to AC electricity to supply household application. The storage battery can be charged with the extra solar electricity or in the night when the electricity price is low.

Other working mode: Customers can specify appropriate working mode according to their requirement.



The use of storage battery system

Case 1 Store the cheap electricity in the night, to reduce the consumption of electricity in the daytime. Based on power consumption within the family, in the daytime make use of the electricity that stored in the night , to use electricity economically .

Case 2 Contribute to electric saving with power storage system
When the use of the electricity exceed the seted household power consumption, the exceeded part can be supplemented from the storage battery, to reduce the burden of power grid.

The use of solar electricity generation function

Case 1 Make prior use of the electricity generated from solar system to charge the storage battery system.

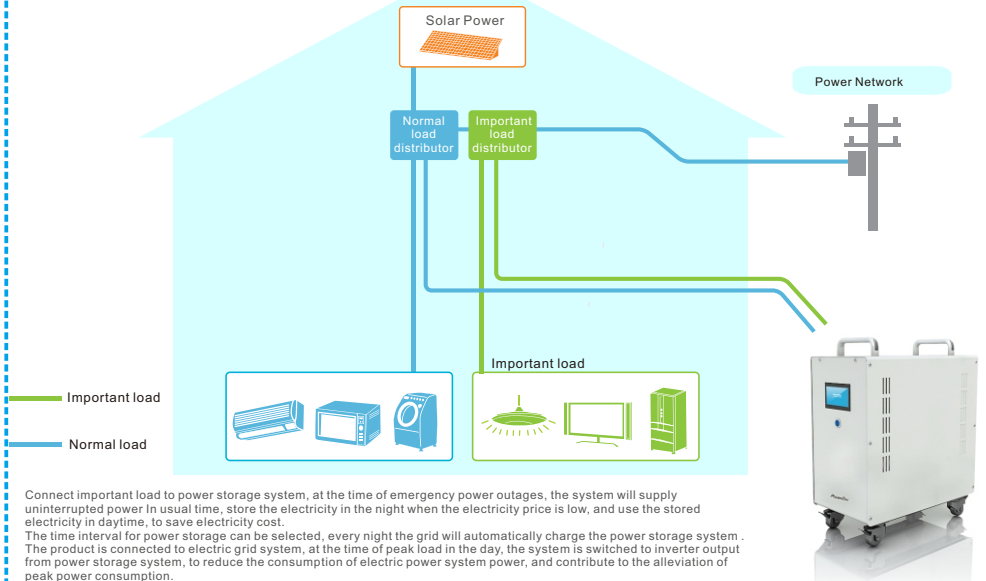
Case 2 The electricity generated from solar system is used preferentially to supply power to daily household application, the rest electricity is used to charge the storage battery system.

Shenzhen PowerOak company limited specializes in the R&D , production, promotion, installation, and service of Micro distributed power generation and storage system. The company has full set of Micro-grid system control system, core production, and complete solution, effectively guaranteeing the improvement and extend of technology and sustainable development of the enterprise. PowerOak products are mainly use in places such as industrial factory building, islet, back country, public buildings and house roofs .

Polymer lithium battery developed specially for household power storage product, safe and secure

KAYOMAXTAR is one company of POWEROAK company group. For years the company is dedicated to the development of lithium battery, and now the company masters the international advanced li-polymer battery manufacture technology and possesses national advanced fully automated production equipment. Since established, the company took advantage of mature management experience from Japan in Research , Development, Quality Control, and Sale, and passed ISO9001 quality management system certificate, passed ISO14001 environmental certificate in 2007. Our products comply with the UL, CE, FCC, PSE, KC certification and all our products comply with the EU RoHS testing requirements. The Polymer Lithium battery developed based on the features of power storage system has the advantage of high security , high capacity, small thickness, and more recycling time, etc.

Power Network

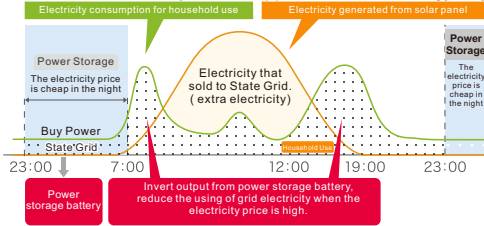




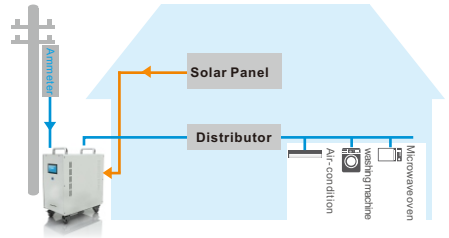
Flexible use during the daytime and multiplication effect by using the system in conjunction with solar energy

Multiplication effect = Increase selling power

In the case that the power of the solar panel is big enough , household electricity can be supplied from solar energy only.



Invert output from power storage battery and solar panel separately or together.

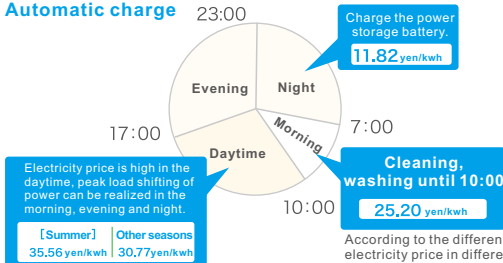


Combined utilization with solar panel electricity generation system can be more economical
 In the daytime use the electricity from solar panel and power storage battery inverter output, to reduce the use of Grid electricity and save electricity cost.
 When the solar panel is not able to generate power ,use the electricity from power storage battery output, to reduce the use of Grid electricity and save electricity cost.

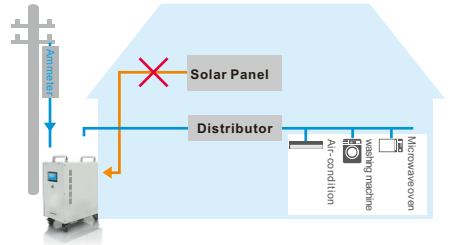


Night Power Storage

Set the time Automatic charge



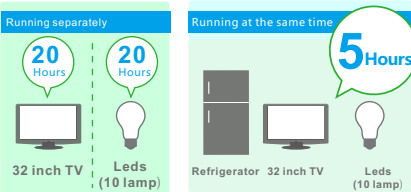
save electricity cost, economical and practical



In countries that electricity price is different at different time period of the day, we can set the time of charge mode to the period that electricity is low, to save the electricity cost.

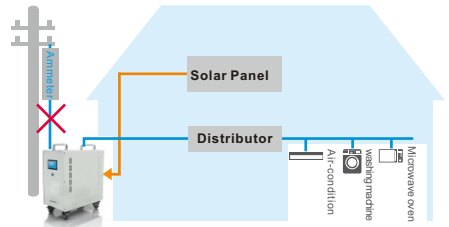
Electric Outage Supply Power

When there is a sudden power outage, use the stored electricity at-ease.



Speculation of service time for different electric appliance. (take general use for reference)

When power outage , switch to storage battery supply instantly.



When there is a sudden power outage, the built in UPS function will realize instant switch from Grid system to power storage system.
 With storage battery of 3.31KW (maximum 5.84 KW) , you can use electricity at ease when there is power outage.
 Conjunctive utilization with solar panel power generation system, to charge the power storage battery .

Product Specification

Model	PS3215B-P1	PS3215B-P2	
Output Feature	Capacity	3.31kWh	
	Output system	1 System	
	Output Voltage	Signal phase 2 wire	Signal phase 2 wire
		AC100/110/120V	AC200/230/240V
	Output Power	1.5KW	
	Output Frequency	50/60HZ	
Isolation Method	High frequency output.		
Electric System	electric voltage	AC90-264V	
	Input Frequency	50Hz/60Hz±1%	
	electric charging power	700W	
	electric charging time	About 5 hours	
PV Input	PV Input voltage	DC70V-150V	
	PV Input Power	1200W	
	MPPT Efficiency	99.5%	
	PV Charging time	About 3.5-4 hours	
Running Mode	General working mode/Energy saving mode/Economic mode		
System Running	Off-Grid		
Operation Place	Operation temperature-10 ~ 40°C		
	Humidity10-90%		
	Environmental temperature		
External Dimension	L508*W270*H600		
Weight	About 50Kg		

External Dimension

