

Polymer Lithium Battery Power StorageHousehold Grid-connected&OFF-grid power storage system

PS6530B

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 daytimeelectric 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.

Economic Benefit Mode (Applicable to grid-connected district):

when connected to solar power generation system, the product can invert the power generated from solar to AC electricity. Household application is guaranteed prior, and the extra electricity is used to charge the power storage battery to the minimum requirement, then the next electricity is sold to the State Grid, to gain some economic benefit, and also relief the burden of Power Grid.

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 sored 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. Family selling electricity to the Power Grid can be realized.

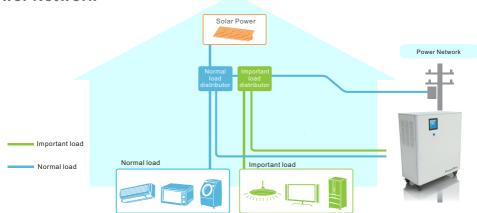
The use of solar electricity generation function

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

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. When the storage battery is charged full and there is still extra electricity left, we can use the solar electricity generation system to sell electricity.

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 de specially for household poy storage product, safe 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



Conjunctive use of household power generation system, electric grid system and solar power generation system leads the family to flexible use of energy.

Connect important load to power storage system, at the time of emergency power outages, the system will supply uninterrupted power. In usual time, store the electricity in the night when the electricity price is low, and use the stored electricity in daytime, to save electricity cost.

The time interval for power storage can be selected, every night the grid will automatically charge the power storage system. The product is connected to electric grid system, at the time of peak load in the day, the system is switched to inverter output from power storage system, to reduce the consumption of electric power system power, and contribute to the alleviation of peak power consumption.

Used as emergency power supply when there is power failure for family use.

At the time of power outage, the product is switched automatically to power storage system to supply power to important loads such as TV, LED lighting, and computer.

If the product is connected to solar power generation system, it will directly invert electricity generated from solar panel to AC electricity to supply household application, and the extra solar energy can be used to charge the power storage battery.



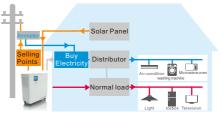
Flexible use during the daytime and multiplication effect by using the system in conjunction with solar energy

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. Power Storage Electricity that The electricity price is cheap in the nigh sold to State Grid (extra electricity) Buy Power State Grid 23:00 12:00 19:00

Storage battery and solar pannel supply power idependently or connect to Grid and supply power at the same time



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 form power storage battery output, to reduce the use of Grid electricity and save electricity cost.

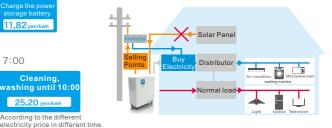
<u>⊗</u>Electric Outage

Supply Power

Store power when the electricity price is low. to realize the peak load shifting of power.

Set the time **Automatic charge** 23:00 ae the po 11.82 yen/kv Evening Night Morning 7:00 17:00 Daytime Cleaning, washing until 10:00

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.

25.20 yen/kwh

According to the different

Electric Outage

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35.56 yen/kwh | 30.77yen/l

Supply Power

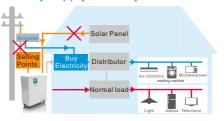
Store power when the electricity price is low. to realize the peak load shifting of power.

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 6.63KW (maximum 11.68KW), 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 | | PS6530B-P1 | PS6530B-P2 | PS6530B-P3 |
|--------------------|-------------------------|---|------------------|-----------------------------------|
| Output Feature | Capacity | 6.63kWh | | |
| | Output system | 1 System | | 2System |
| | Output Voltage | AC100/110/120V | AC200/230/240V | Signal phase 2 wire AC100/200V |
| | Output Power | 2.0KW | 3.0KW | |
| | Output Frequency | 50/60HZ | | |
| | Isolation Method | High frequency output. | | |
| Electric System | electric voltage | AC90-264V | | |
| | Input Frequency | 50 Hz/60Hz±1% | | |
| | electric charging power | 1600W | 2400W | |
| | electric charging time | About 4.5 ~ 5.5h | About 3.5 ~ 4.5h | |
| PV Input | PV Input voltage | DC70V-150V | | |
| | PV Input Power | 1500W | 2000W | |
| | MPPT Efficiency | 99.5% | | |
| | PV Charging time | About 5~6h | About 3.5 ~ 4h | |
| Running Mode | | General working mode\Energy saving mode\Economic mode | | |
| System Running | | Grid-connected&OFF-grid | | |
| Operation Place | | Operation temperature-10 ~ 40°C | | |
| | | Humidity10-90% | | |
| | | Environmental temperature | | |
| External Dimension | | L710*W350*H895 | | |
| Weight | | About108Kg | | |

External Dimension

