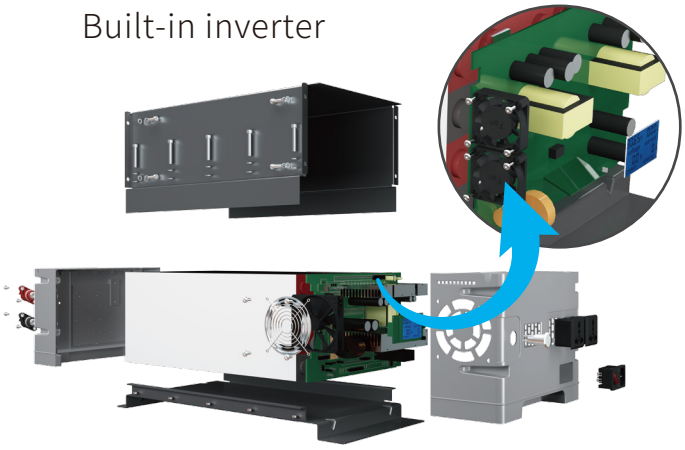
3kWh

SOLAR-STORAGE-APPLICATION INTEGRATED SYSTEM

3kWh Product Introduction

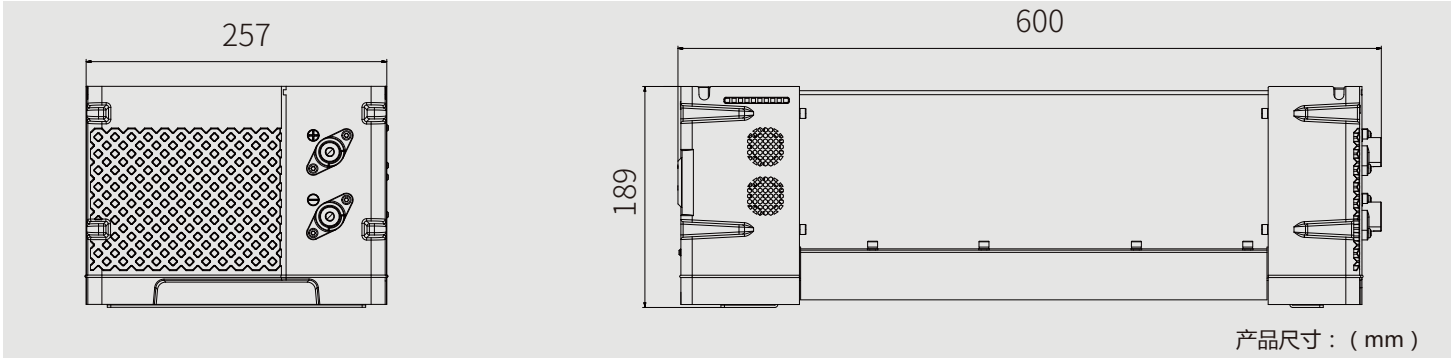
Built-in inverter



3kWh solar system can be charged by solar and AC, to store the electricity, with inverter built-in, can directly supply the power to the electric appliances when power outage. It is one comprehensive storage system integrating generation, storage and usage. Unlike generators, 3kWh solar system need no maintenance, no fuel consumption, and no noise, make your home lights always on, home appliances always run. It is easy to install, simple design, and perfect fit for a variety of architectural styles, apply for family, business, industry, aquaculture, planting, field work, camping tourism, night market, etc.

The 3kWh solar system can be charged by solar panel; At daytime, using sunlight to achieve clean energy charging while can continuously supply power to household appliances; at night, using stored electrical energy to power the home to ensure the normal operation of household appliances. By storing the power of the solar power system, the 3kWh solar system can realize the independence of electricity consumption, without the restriction of the power grid, and realize the freedom of electricity consumption in the area where there is no electricity and less electricity. The 3kWh solar system also can be charged by AC; storing the power from the grid, to be used as reserve power or emergency power supply. At night or at the time of power outage, it can supply the power to electrical appliances by using the stored energy, to avoid the inconvenience caused by power outage, so that you can calmly deal with the situation of power outages.

The charging mode of 3kWh solar system is flexible, it starts charging when sun rises or the grid supplies power again. Using 3kWh solar system alone can save money and reduce carbon emissions.



产品尺寸：（mm）

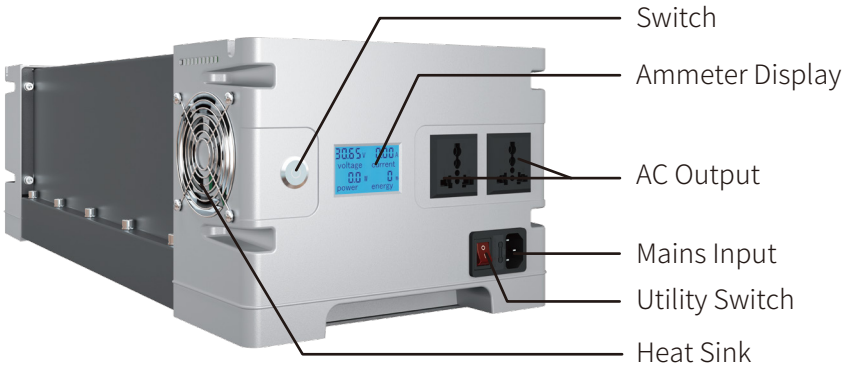
Advantages

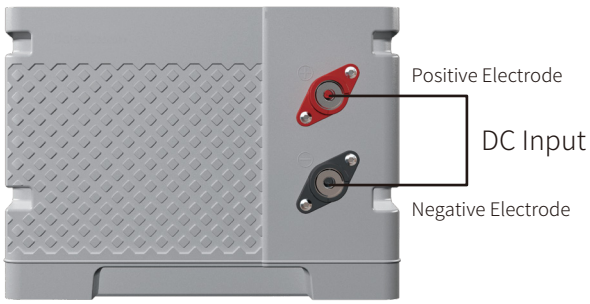
- Integrated design, with generation, storage and usage integrated; modular production, easy installation.
- Dust-proof instruction, with its own inverter design, can directly supply electricity for electric appliances, to achieve a full range of energy supply.
- $LiFePO_4$ battery, the discharge depth reaches 80%. Under the discharge ratio of less than 0.5C, service life is up to 15 years, with high safety factor.
- No maintenance, no fuel consumption, no noise, flexible charging mode, saving money, reducing carbon emissions, energy saving and environmental protection;
- Integrated packaging, safe and convenient to transport.

Technical Parameters

Model	BCT-SPS 3kWh		
Solar Panel	24V/320W×2pcs		
Solar Panel Charging Current	40-60A, ＜80A	Run Load At the Same Time	≤1.5kW
Storage Capacity	3328Wh	Standard Capacity	130Ah/25.6V
Electricity Charging Current	5A	Electricity Charging Voltage	220V/50Hz
Charging Voltage	28.8V—30V	Cut-off	2.5V single cell
Self-Discharge (25°C)	＜3%/month	Depth of Discharge	＞80%
Charge Method (CC/CV)	Operation: -20°C—70°C; Recommendation: 10°C—45°C		
AC Output	220V/1.5kW	AC Output Waveform Frequency	Pure Sine Wave 50Hz
Warranty	3 years		
Product Size	600±2×257±2×189±2mm		

Instructions





3328Wh
Large Capacity

>80%
Depth of Discharge

Battery
Charging Supported

Electricity
Charging Supported

Two 220V
AC Output

Multiple Equipment Can be
Supplied Simultaneously

Appliances that can be connected


Sports Watch
3.7V/400mAh
2200 Times


Mobile Phone
11Wh
300 Times


Pad
30Wh
110 Times


Notebook Computer
65Wh;100W
50 Times;33 H


All-in-one Computer
150W
22 H


UAVs
60-70Wh
48-56 Times


A Digital Camera
16Wh
208 Times


The Printer
400W
8.5 H


The Projector
150W-180W
18.5-22 H


Bluetooth Speakers
60W
55 H


Fan
50-60W
55-66 H


Low Power Hair Dryer
500-1200W
2.5-6.5 H


Electric Rice cooker
350-800W
4-9.5 H


The Kettle
800-1500W
2.5-4 H


The Coffee Machine
150W-180W
18.5-22 H


Juicer
150W
22 H


The Microwave Oven
800-1300W
2.5-4 H


Miniature Electric Oven
1000-1500W
2.2-3.3 H


LED Lights
5-10W
333-665 H


The Washing Machine
380W
8.5 H


Air Conditioner
800-1100W
3-4 H


50-inch TV Set
50-110W
30-66.5 H


The Refrigerator
150W
22 H


Car Freezer
60W
55.5 H


Electric Blanket
80-150W
22-41.5 H


Miniature Heater
550-1500W
2.2-6 H

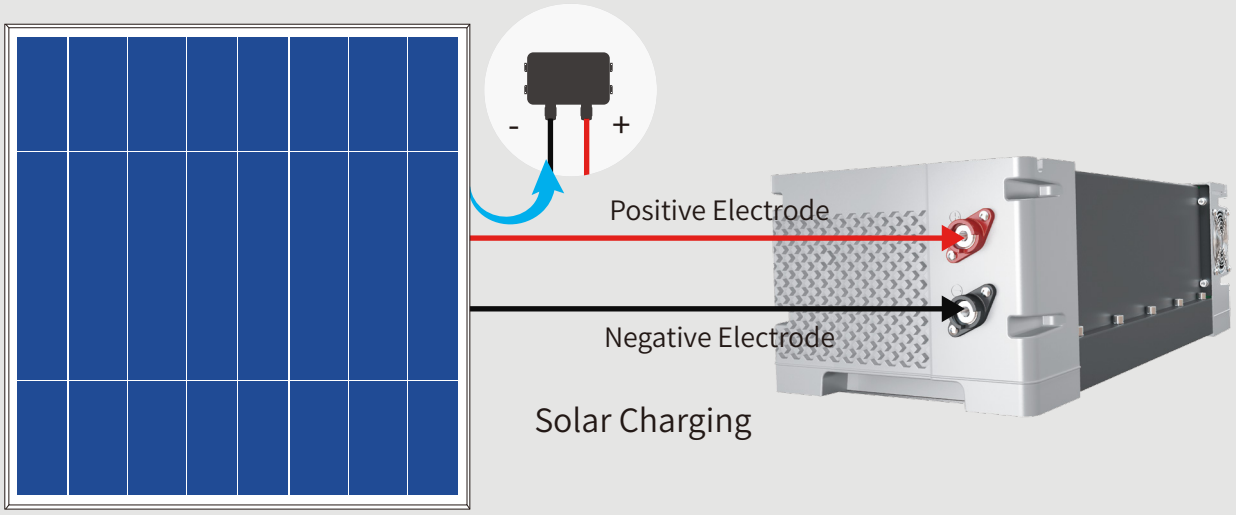

Household Atomizer
20VA
166 H


Rechargeable Flashlight
3.7V/5000mAh
180 Times


Cutting Machine
1100W
3 H

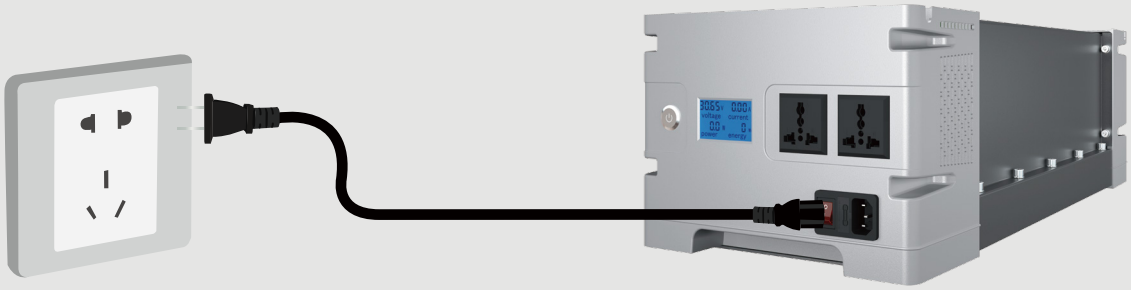

Electric Drill
500-800W
4-6.5 H

1. The above data and the test data will float up and down due to different factors, such as environment, usage methods and equipment specifications, etc. This test data is for reference only.
2. Electrical appliances can be operated at the same time with a maximum load of not more than 1.5 KW.
3. The limited current on the product is not suitable for inductive load, and the instantaneous start current of inductive load is 3-7 times of normal operation.



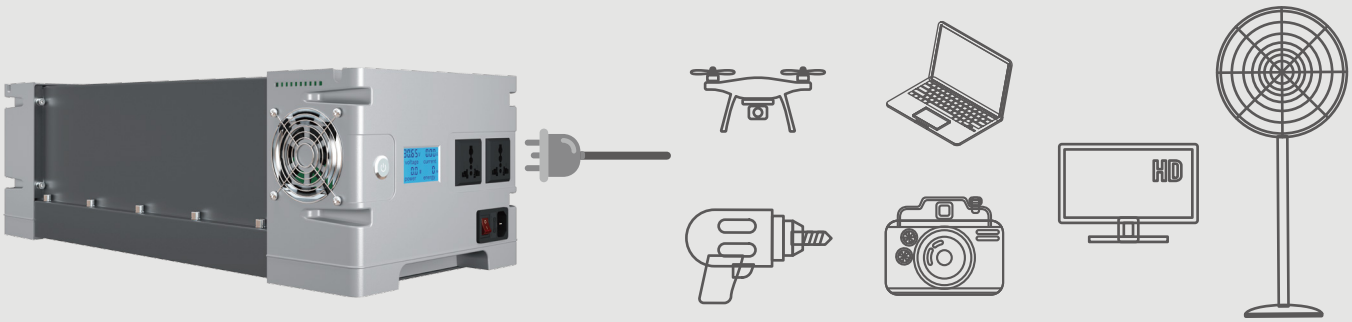
Solar Charging

Too high charging current will affect the service life of the product, recommended current 40-60A, maximum not more than 80A.

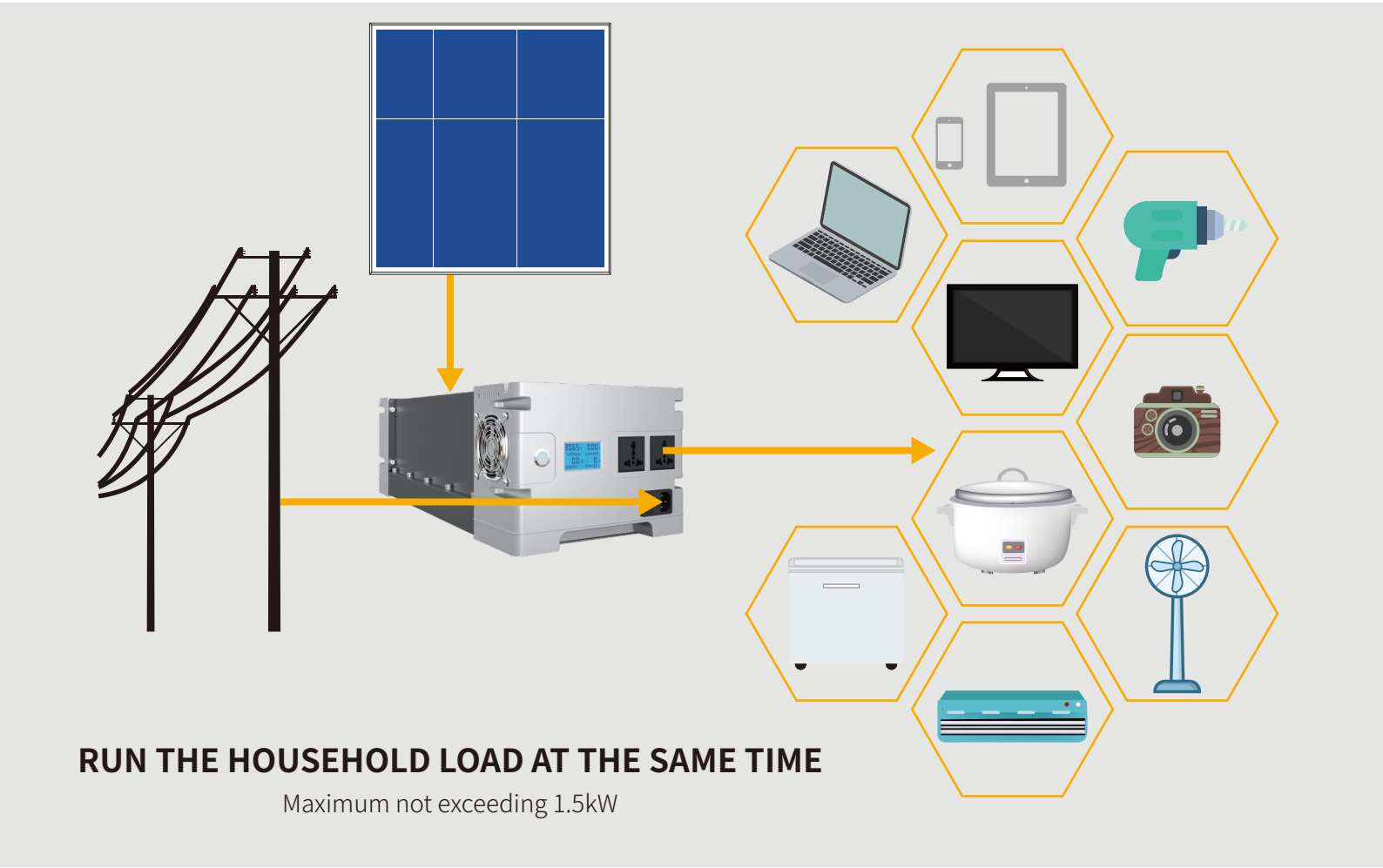


AC Charging

Two Charging Methods

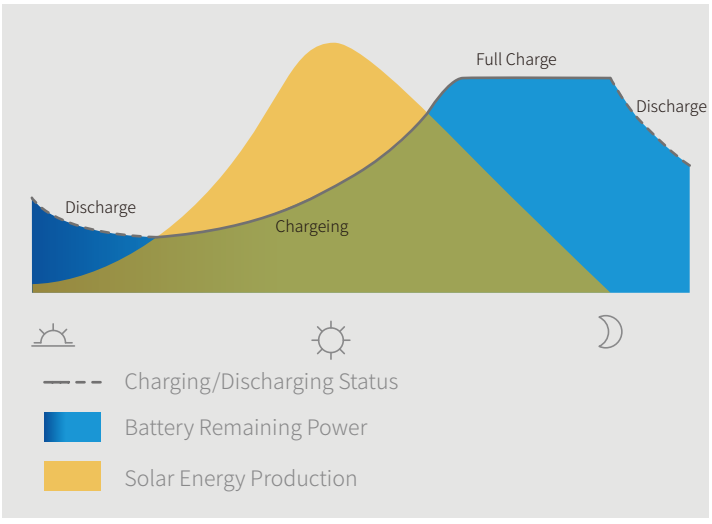


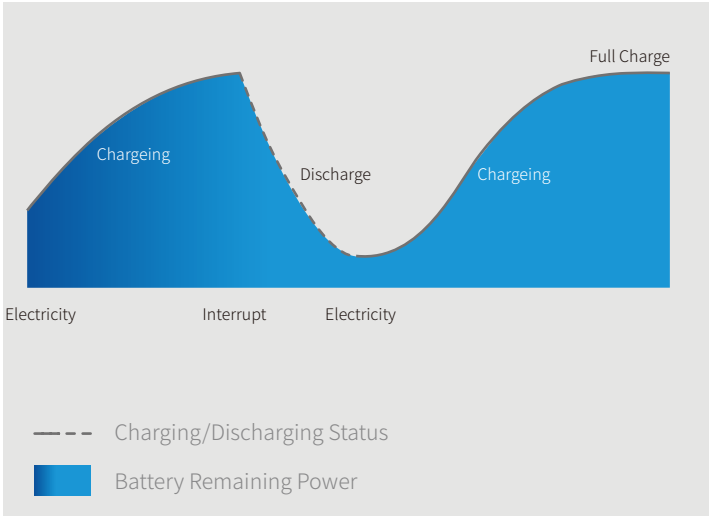
AC Output



RUN THE HOUSEHOLD LOAD AT THE SAME TIME

Maximum not exceeding 1.5kW



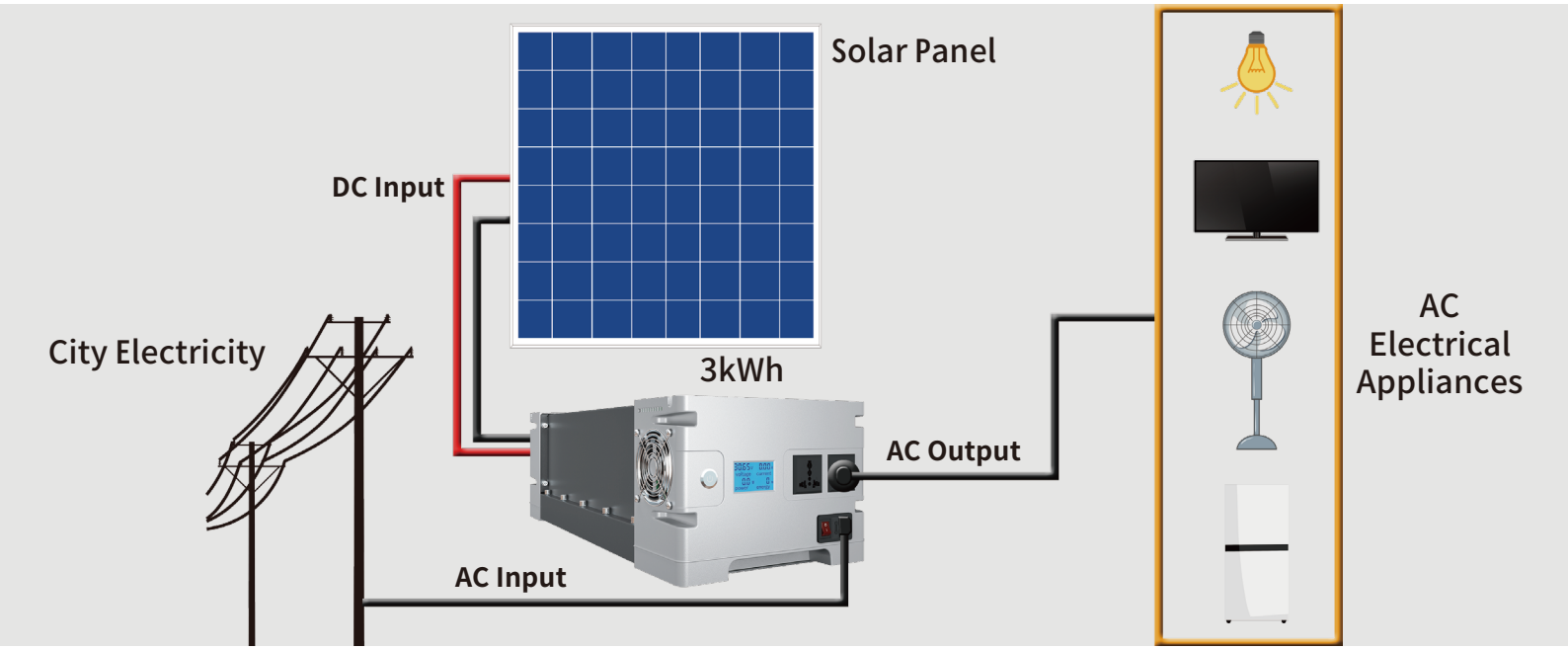


Solar Charging

During day time, 3kWh solar system can be charged by solar while supplying electricity to electrical appliances (discharging); at night, supply power to electricity appliances (discharging)

AC Charging

When there is electricity, 3kWh solar system can be charged by AC electricity, and when power outage, can supply power to electric appliances (discharging)



Application Places


Bluecarbon


FRESH JUICE