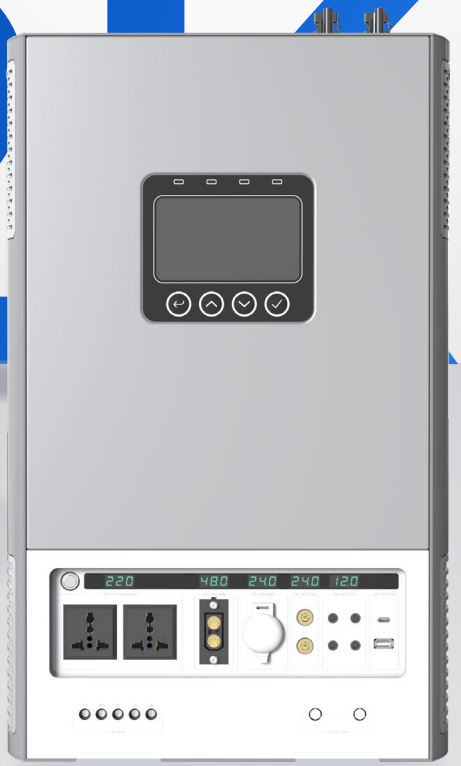
AC/DC Inverter

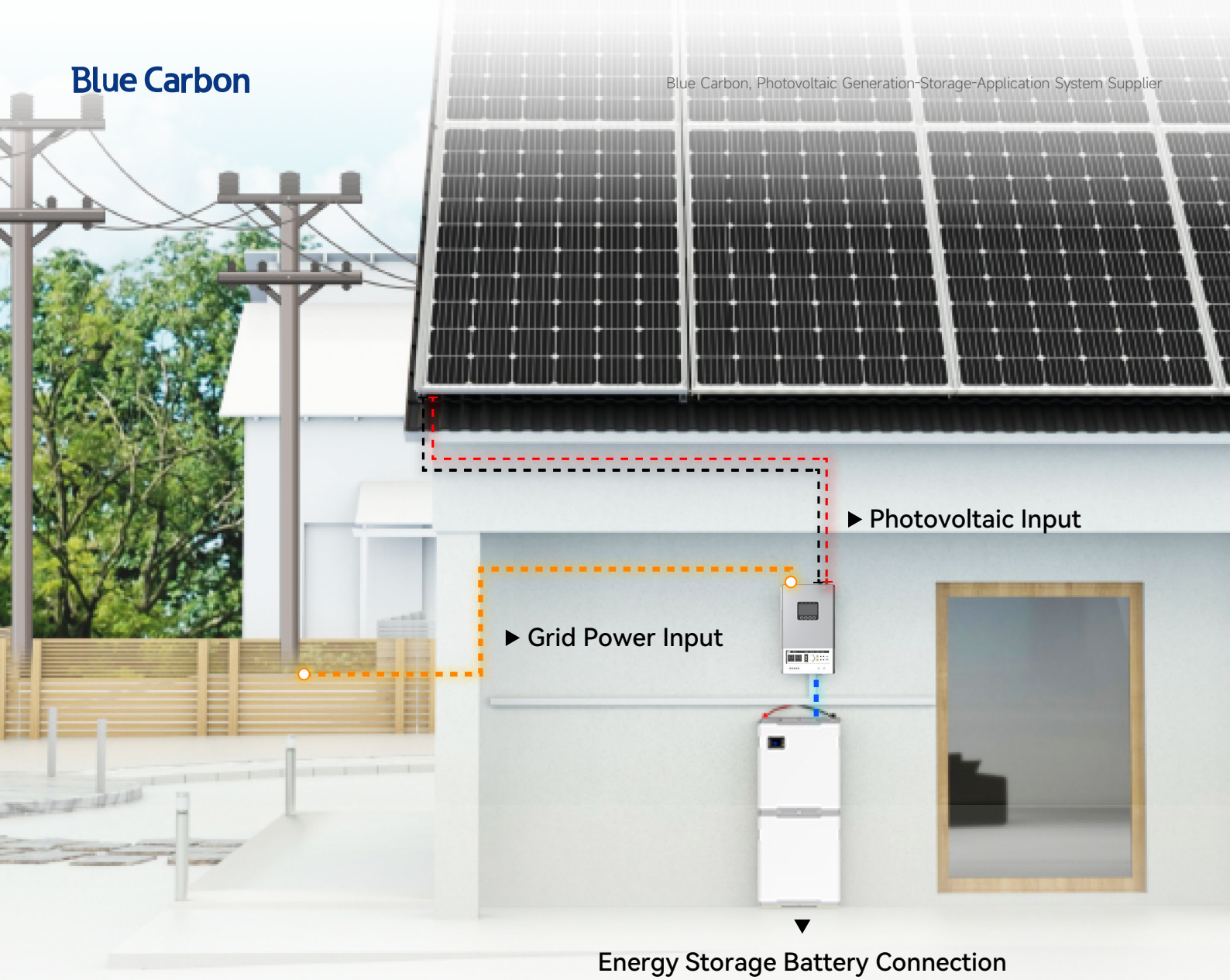
AC 6kW Output+DC 6kW Output

12kW



BCT-6+6KW

- Built-in 80A Solar Charger
- Wide MPPT Range:120-500V
- DUAL DC AC — DC+AC Dual Output
- Wifi Monitoring
- BMS — Compatible with Lithium / Lead-Acid batteries
- Feed-in Grid
- Lithium Battery Starting
- Removable Dust Cover



AC/DC

Multi-Source Output Support

Integrated inverter can simultaneously connect to PV power generation (DC), energy storage battery (DC) and grid (AC), and intelligently allocate power sources according to demand.AC 6kW output power + DC 6kW output power can support the simultaneous use of high-power electrical appliances.

Reduce System Costs

Traditional systems require separate AC output and DC output, but the integrated inverter integrates two functions, reducing the number of devices and installation costs. It saves the cost of a set of systems and can directly purchase a set of DC loads, thus realizing zero electricity costs.

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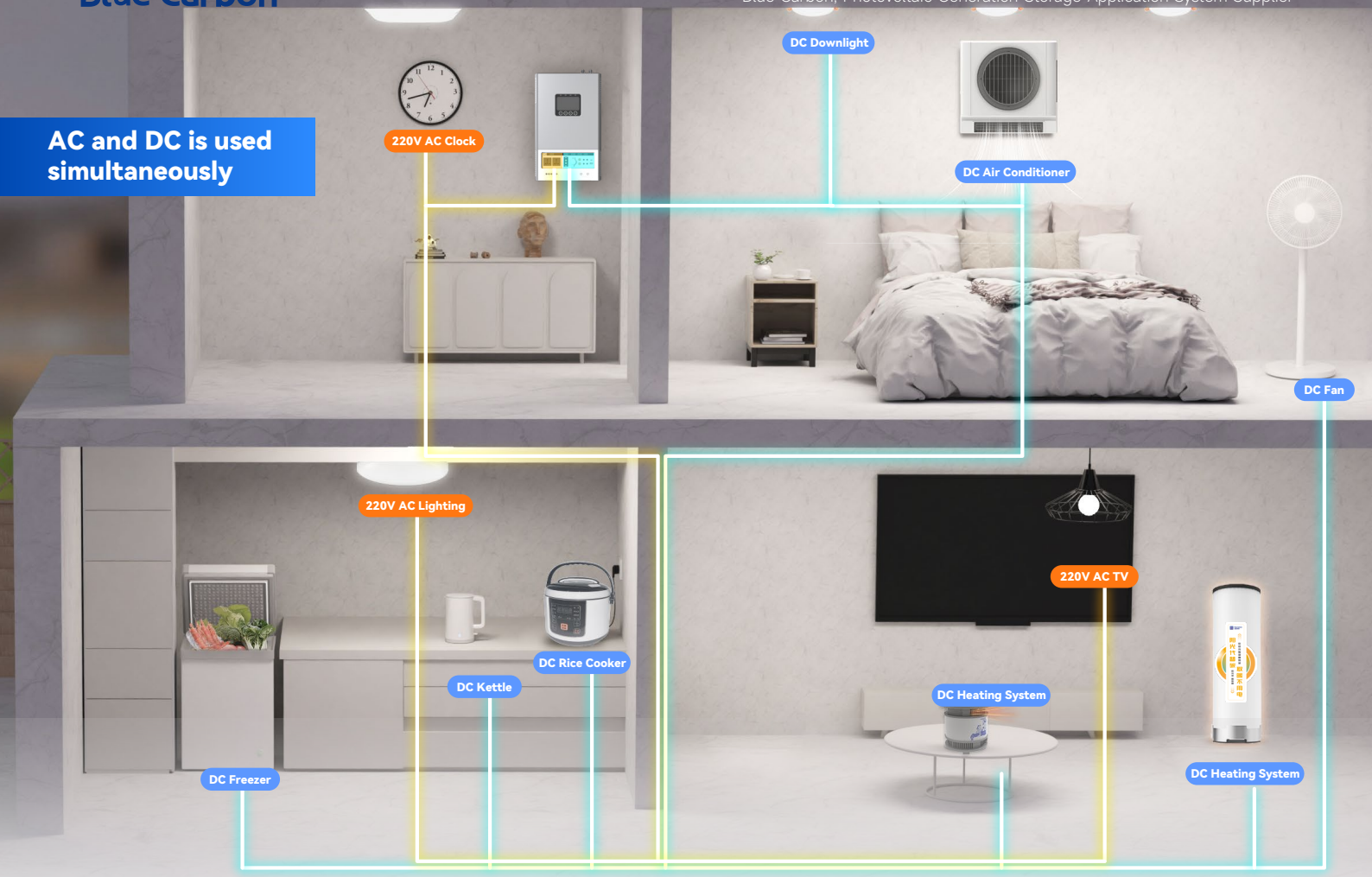

In addition to regular household electricity, you can also get DC appliances with prepaid electricity bills, making your life more wonderful

Support Multiple Types Of Loads

Whether it is a 220V AC load (such as a household load) or a DC load (such as LED lighting, DC appliances), the hybrid inverter can directly supply power, thus reducing the need for additional conversion.

Simplify System Design

The integrated design simplifies the wiring and management of systems, reducing maintenance costs and system complexity.

Multiple Protection Mechanisms

It is equipped with protection functions such as overvoltage, overcurrent and short circuit, which can effectively safeguard the safety of equipment and loads.

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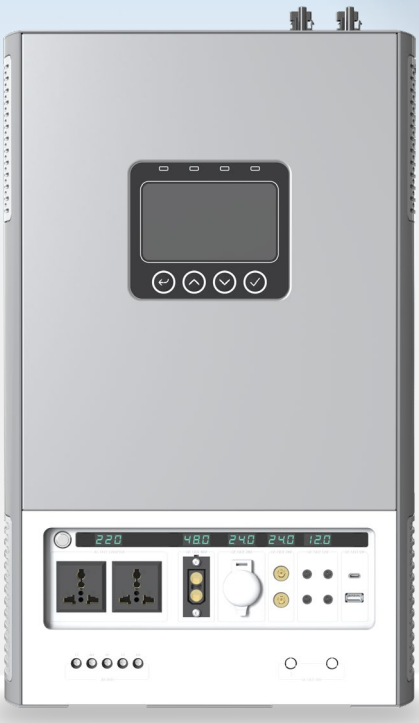

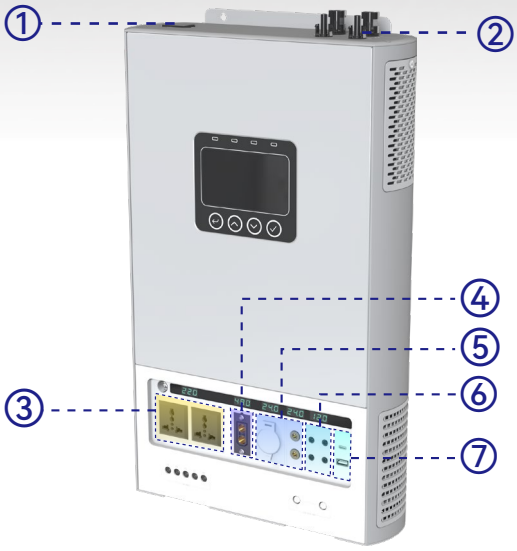

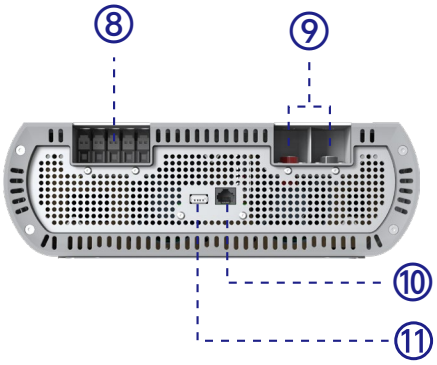

① Grid Connection

② PV+ DC Input

③ 220V/6kW AC Output

④ 48V/5kW DC Output

⑤ 24V/500W DC Output

⑥ 12V/100W DC Output

⑦ 5V/10W DC Output

⑧ AC Terminal Output

⑨ DC Terminal Output

⑩ BMS ⑪ COM

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Model:BCT-6+6KW

AC INPUT	Rated Input Voltage(VAC)	208/220/230/240;L+N+PE
	Voltage Range(VAC)	90~280±3(normal mode);170~280±3 (UPS mode)
	Frequency(Hz)	50/60 (Auto Adaptive)
AC OUTPUT	Max Power (kw)	6
	Voltage (VAC)	208/220/230/240
	Power Factor (PF)	1
	Frequency	50/60Hz±0.1%
	Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
	Wave Form	Pure Sine Wave
	Overload Capacity (Battery Mode)	60s@102%~110% load;10s@110%~130% load; 3s@130%~150%load; 0.2s@>150% load
	Max. Efficiency (Battery Mode)	93%@48VDC

DC Output (Simultaneous support)	Voltage (VAC)	48V	24V	12V	5V
	Max Power (kw)	5kW	500W	100W	10W
	Output Current (A)	104A	20A	8A	2A

CHARGER (PV / AC)	Solar Charger Type	MPPT
	Max PV Input Current / input Power	18A/6000W
	MPPT Range@Operating Voltage (VDC)	120~450
	Max PV Open Circuit Voltage (VDC)	500
	Max PV Charge Current (A)	80
	Max AC Charge Current(A)	80
	Max. Charge Current (PV + AC)(A)	80
BATTERY	Rated Voltage (VDC)	48
	Floating Charge Voltage (VDC)	54
	Overcharge Protection (VDC)	61
	Battery Type	Lithium and Lead -acid
INTERFACE	HMI	LCD
	Interface	RS485 /RS232 / USB / Dry Contact
	Monitoring	WiFi (Optional)
GENERAL DATA	Ingress Protection	IP20
	Operating Temperature	-10℃~50℃
	Relative Humidity	5%~95% (Non-condensing)
	Storage Temperature	-15℃~60℃
	Net Weight (kg)	9
	Max.Operating Altitude	4000m (Derating above 1000m)

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Blue Carbon

Blue Carbon, Photovoltaic Generation-Storage-Application System Supplier

220V/6kW AC Output

- AC TV
- AC Dishwasher
- AC Vacuum Cleaner
- AC Washing Machine
- AC Fan

DC+AC Dual Output-meeting diverse market needs

6kW DC Output

- DC Kettle
- DC Electromagnetic Oven
- DC Rice Cooker
- DC Air Conditioner
- DC Freezer

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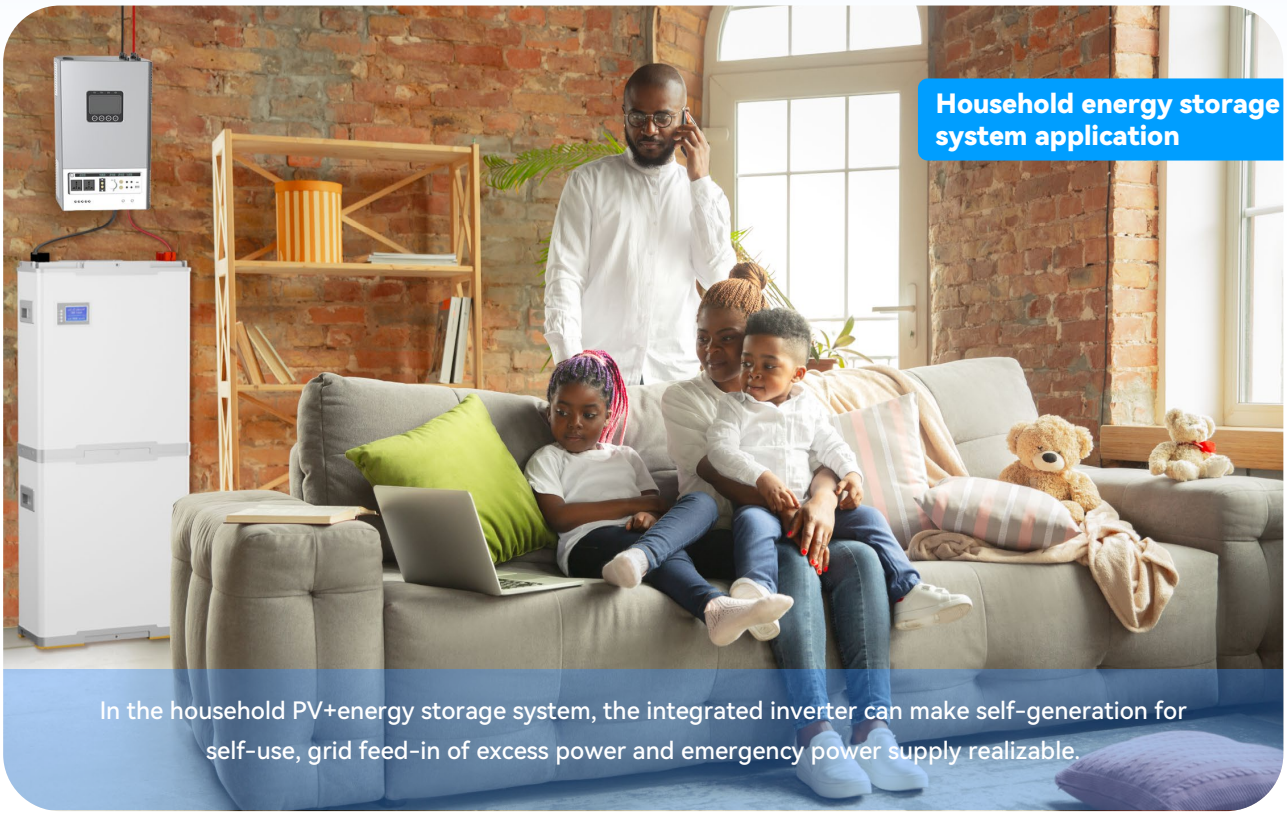
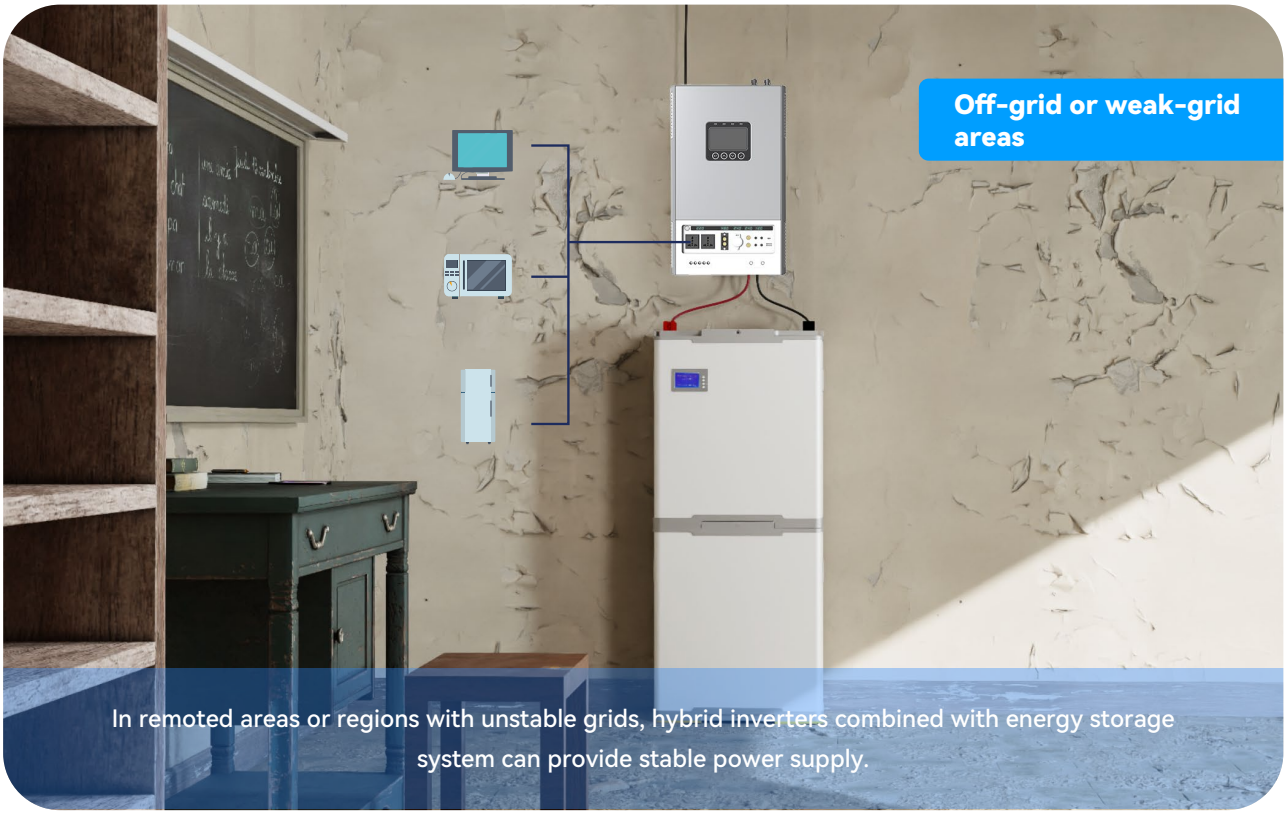
Adaptive To Diversified Application Scenarios



Household energy storage system application

In the household PV+energy storage system, the integrated inverter can make self-generation for self-use, grid feed-in of excess power and emergency power supply realizable.



Off-grid or weak-grid areas

In remoted areas or regions with unstable grids, hybrid inverters combined with energy storage system can provide stable power supply.

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