Q.ENERGY

All-In-One Energy Storage Systems+EV

All-In-One Energy Storage System: Integration for Efficient Energy Management

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All in One

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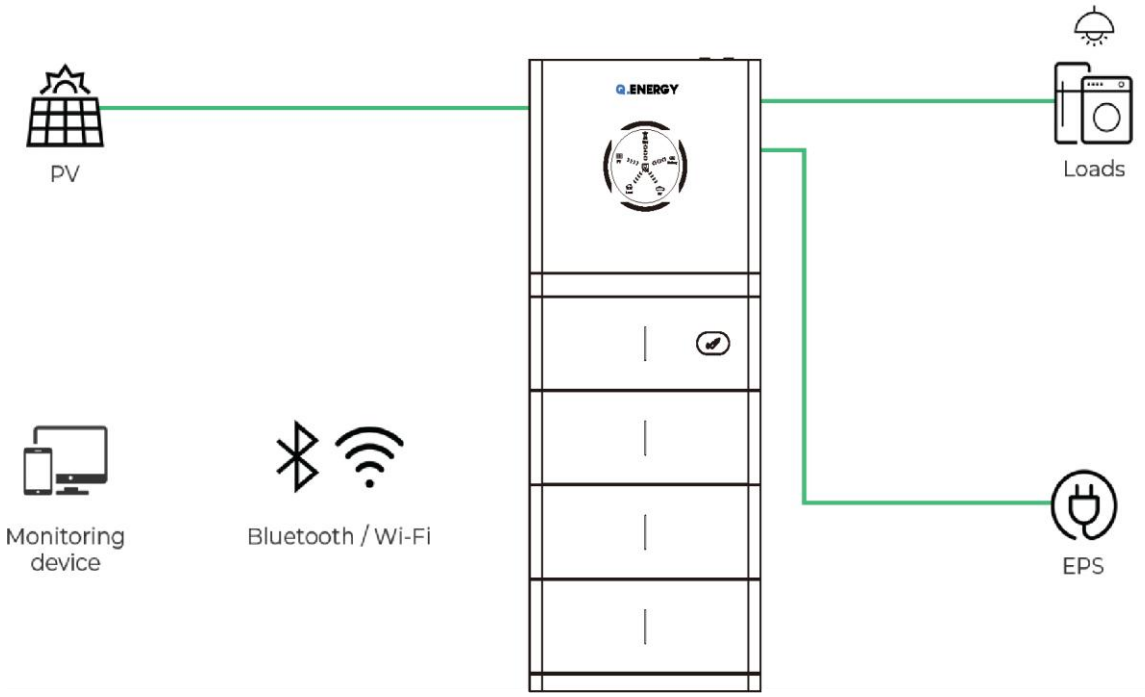
- On-Off Grid Hybrid PV Inverter 7kw
- EV Charger (AC)
- LFP Battery 5kwh (Expandable up to 6 Parallel Batteries)
- Input PV power is 1.4 times of rated AC Out power
- Hardware and Software Dual Protection
- Anti-islanding, Short, Overcurrent, Overvolatage
- Overtemperature
-

Renewable Energy for **SOLAR-POWERED HOME**

All-in-one system

Save power expenses, smartly manage home energy, and enjoy a comfortable quality life



Inverters and Converters

Energy Conversion

Inverters and converters are essential for converting stored energy into usable electricity, enabling efficient energy consumption.

Energy Management

These devices manage energy flow between the storage system, appliances, and the grid, ensuring efficient distribution of electricity.

Product Features

Easy to install.
Modular design.
Expand the modules
by stacking

PV inverter + ES + EV Charger,
all in one. Save
the installation cost of
charging piles. And they
have one APP

Expandable batteries.
Up to 6 parallel batteries
can be expanded by
stacking

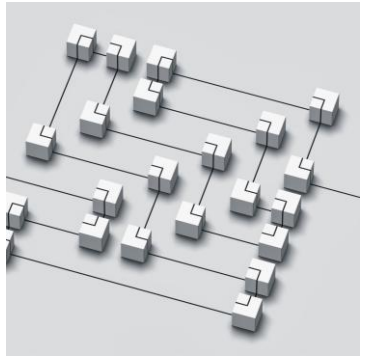
IP65 Dustproof
and Waterproof
Rating

Hardware and software
dual protection
(Complte protection: Anti-islanding, Short,
Overcurrent,Overvoltage,
Overtemperature, etc.)

Excess input PV power.
The input PV power is 1.4
times of rated AC
output power

Benefits of Integrated Energy Storage Solutions

Efficiency and Cost Savings



Optimizing Energy Use

An all-in-one energy storage system enhances efficiency by managing energy use effectively, leading to better resource allocation.

Reducing Energy Costs

By storing energy when prices are low, users can significantly reduce costs incurred during peak demand periods.

Peak Demand Management

Storing energy for use during peak demand helps to alleviate strain on the grid and enhances overall efficiency.

Improved Energy Reliability and Stability

Backup Power Supply

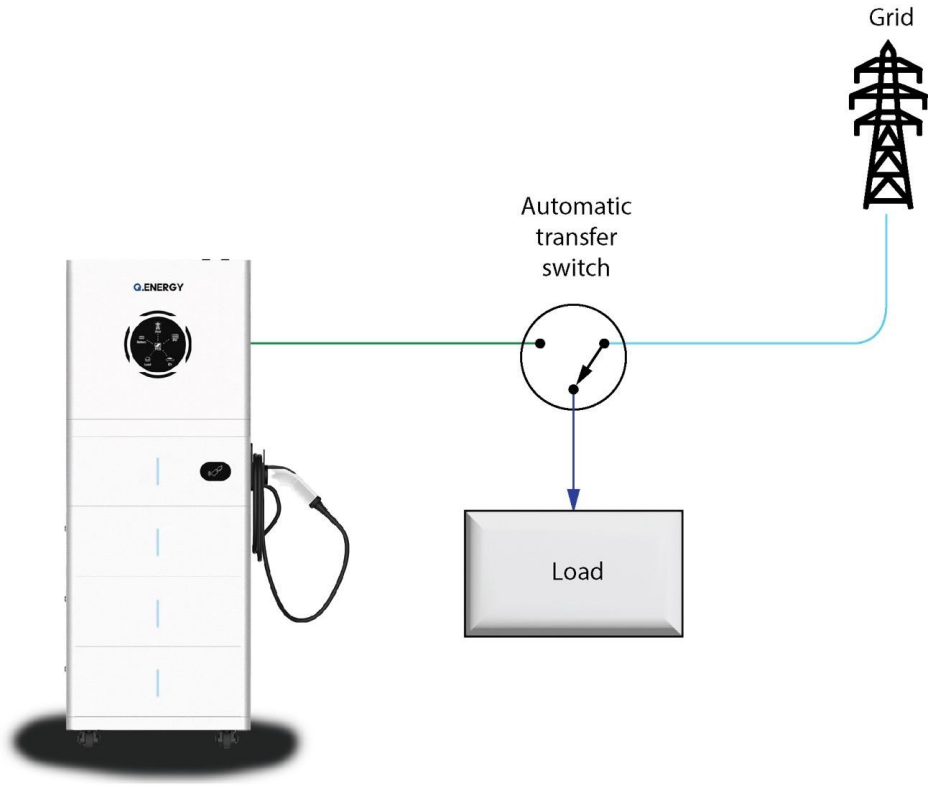
Energy storage systems provide backup power during outages to ensure uninterrupted energy supply for users.

Grid Stability

These systems stabilize the energy grid during supply and demand fluctuations, enhancing overall reliability.

Consistent Energy Supply

With improved energy storage, users can enjoy a consistent and reliable energy supply, minimizing disruptions.



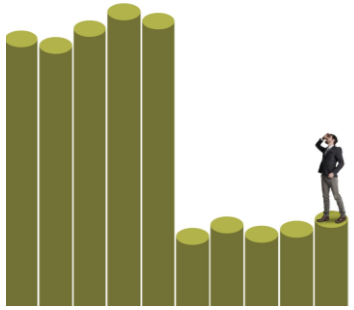
Environmental Impact and Sustainability

Integration of Renewable Energy

Energy storage systems enable the effective integration of renewable energy sources like solar and wind into the power grid.

Reduction of Fossil Fuel Dependence

By utilizing energy storage, the reliance on fossil fuels can be significantly reduced, promoting cleaner energy options.



Lowering Greenhouse Gas Emissions

Energy storage systems help lower greenhouse gas emissions, contributing positively to the environment and combating climate change.

Applications in Various Sectors

Residential Usage

Energy Independence

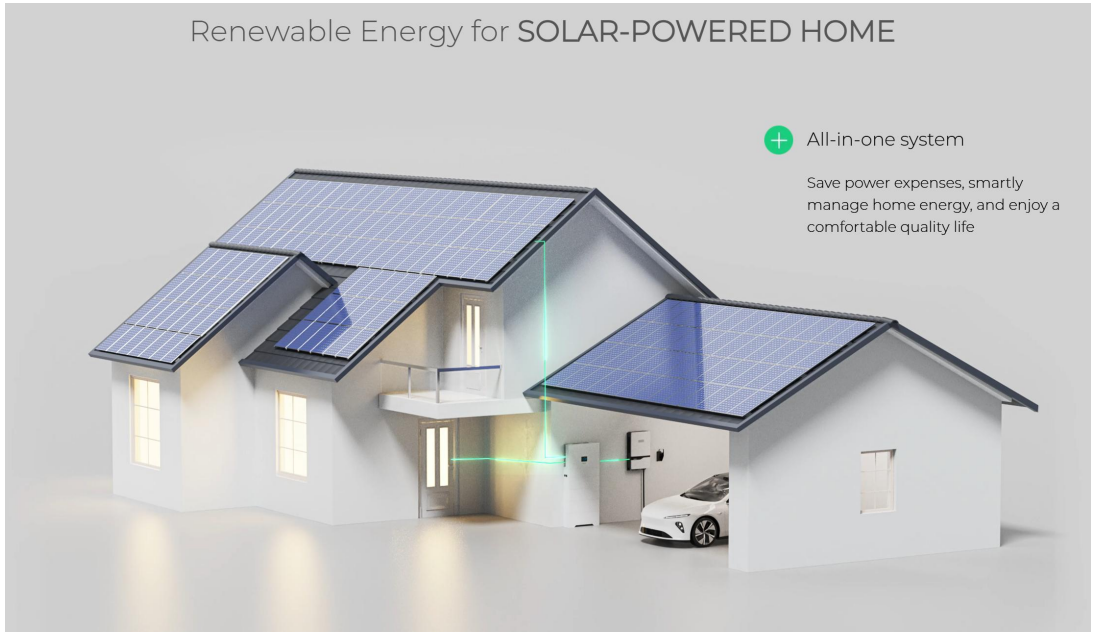
Energy storage systems allow homeowners to harness solar energy, giving them greater independence from the grid.

Cost Savings

Storing solar energy for nighttime use enables homeowners to save on energy costs, reducing monthly bills.

Sustainable Living

Using energy storage systems contributes to a sustainable lifestyle, promoting renewable energy use in homes.



Commercial and Industrial Applications

Reducing Peak Energy Demand

Energy storage systems help commercial and industrial facilities lower peak energy demand charges, saving costs and optimizing usage.

Enhancing Energy Efficiency

By integrating energy storage, facilities can improve energy efficiency, making operations more sustainable and cost-effective.

Supporting Grid Services

Energy storage supports grid services by providing stability and reliability, especially during peak times or outages.