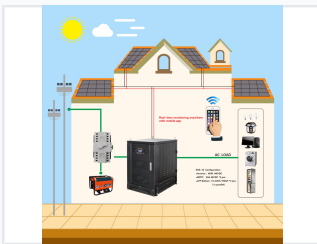


All-in-One Home Energy Storage System

This all-in-one energy storage system is designed for residential applications. It optimizes energy usage by storing excess solar power and providing it when needed, reducing reliance on the grid and lowering electricity costs.



ADDITIONAL IMAGES



Overview

All-in-One Residential Energy Storage

This integrated ESS-10 system provides a comprehensive off-grid power solution, combining a high-performance inverter, MPPT charge controller, and LFP battery storage. Designed for plug-and-play installation, it optimizes energy from solar, utility, and generators to protect homes and businesses from power outages. Real-time monitoring via a mobile app ensures you can manage your personal power resources from anywhere.

Key Performance Metrics

Performance Highlights

6 kW

Inverter Power

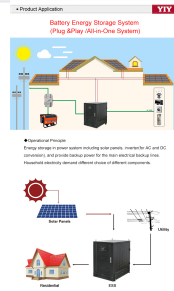
10 kWh

Min. Energy Capacity

102.5 kWh

Max. Energy Capacity

System Configuration



The system seamlessly integrates solar panels and utility power to provide reliable backup for residential electrical lines.

ESS-10 Standard Configuration

Component	Specification
Inverter	6KW / 48VDC Low Frequency Pure Sinewave
MPPT Controller	50A 48VDC x 2 units
LFP Battery	51.2VDC 100AH x 2 units (Parallel)
PV Input Range	60-145Vdc

Technical Features

System Features

- True Plug & Play All-in-One design
- 19-inch standard rack design for all modules
- Smart BMS for battery maintenance and management
- Central LCD display for real-time status monitoring
- Mobile App support for remote monitoring
- Pure Sinewave output for sensitive electronics

Applications

Primary Applications

Home Energy Storage, Remote Access Network Equipment, Mobile Communication Backup, Off-Grid Solar Systems, Critical Business Backup

Battery Technology

Battery Chemistry

LFP • Lithium Iron Phosphate • Prismatic Cells

Scalability

Solar Input Options

Optional configurations from 6kW to 18kW