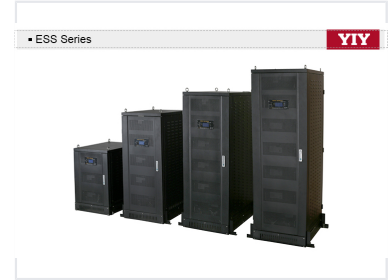
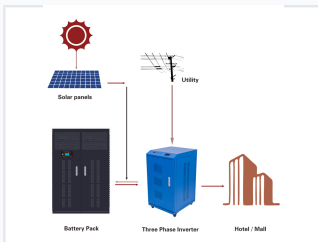


# Three-Phase 102.5 kWh Lithium Battery Energy Storage System

This three-phase lithium battery energy storage system is suitable for commercial and home use. The system integrates solar panels, a battery pack, and a three-phase inverter to provide a comprehensive energy storage solution.



## ADDITIONAL IMAGES



## Product Overview

Product Application: **YIY**  
Battery Energy Storage System (Plug & Play / All-in-One System)

**Key Features:**  
 Energy Storage System including solar panels, inverters, AC and DC switches, and a three-phase inverter for the most optimal backup time. Maximize electricity demand efficient choice of different components.

The system integrates solar panels, utility grid, and internal inverters to provide seamless backup power for residential and commercial loads.

### Comprehensive Energy Storage Solution

This Three-Phase Lithium Battery Energy Storage System is a versatile, plug-and-play solution designed for residential, commercial, and industrial applications. It integrates high-capacity LiFePO4 battery technology with a powerful 45kW three-phase inverter and built-in MPPT solar controllers. The system is engineered to provide reliable backup power, optimize solar energy usage, and support grid-tied or off-grid configurations for facilities like shopping malls, factories, and hotels.

### Key Performance Metrics

**102.5 kWh**  
Total Energy

**45 kW**  
Inverter Power

**2000 Ah**  
Battery Capacity

## Battery Specification

### Battery Chemistry

LiFePO4 • Lithium Iron Phosphate

### Charging & Discharging

Parameter	Value
Rated Charging Voltage	56.0VDC
Rated Charging Current	450A
Rated Discharging Current	2000A

Rated Voltage 51.2 VDC

Configuration 10.24 kWh \* 10 units

## Three Phase Inverter

### Inverter Performance

- Pure sine wave output
- Peak efficiency >88% (Inverter Mode)
- Line mode efficiency >95%
- Power Factor: 0.9-1.0
- Total Harmonic Distortion (THD) <3%
- Frequency: 50/60Hz ± 0.3Hz

Output Voltage Options 380VAC, 400VAC, 415VAC, 220VAC (L-N)

## Solar MPPT Controller

### Charging Voltages

- Fast Charging: 56.4V
- Float Charging: 54V

MPPT Configuration 60A \* 8 Units

PV Input Range 60-145VDC

## System & Intelligence

### Target Applications

- Commercial Buildings
- Small Shopping Malls
- Factories
- Residential Complexes
- Grid-tied & Off-grid Storage

Communication & Monitoring RS485, CAN, RS232, LCD Display