



## Vertical Home Energy Storage Battery 12.8kwh Lifepo4 Lithium Ion Battery 48 Volt 250ah

Our Product Introduction

for more products please visit us on [enikolnewenergy.com](http://enikolnewenergy.com)

### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ENIKOL
- Certification: CE, FCC, UKCA, UN38.3, MSDS
- Model Number: ESK-4825CV
- Minimum Order Quantity: 1 set
- Price: \$1,537.00/sets 5-49 sets
- Packaging Details: Colorful box
- Supply Ability: 1000 Piece/Pieces per Week

ENIKOL



51.2V

250Ah

### Product Specification

- The Charging Ratio: 99%
- The Discharge Rate: 98%
- Anode Material: LFP
- Application: Home Appliances, Consumer Electronics, BOATS, Golf Carts, SUBMARINES, Electric Bicycles/Scooters, Electric Vehicles, Electric Wheelchairs, Electric Power Systems, Solar Energy Storage Systems, Uninterruptible Power Supplies, Electric Forklifts, Electric Fo
- Rated Capacity: 250AH (12800WH)
- Rated Voltage: 51.2V
- Display: LCD
- Cycle Life: ≥6000 Times
- Max Parallel: 64 Sets
- Color: Black/ Green
- Shell Material: Painted Steel Shell(Optional)
- Communication Function: RS485/RS232/CAN Protocol



### More Images



## Product Description

### Large Capacity 12.8kwh Vertical Battery With Lifepo4 Solar Power System 48 Volt Lithium Ion Battery 250ah

Backup power during outages: When the grid goes down, a home energy storage battery can provide a reliable source of backup power, ensuring that critical appliances and systems, such as refrigeration, lighting, and medical equipment, remain operational.

Increased self-consumption of solar energy: Homeowners with solar panels can increase their self-consumption of solar energy by storing excess electricity generated during the day and using it at night or during periods of low solar production.

Model	ESK-4825CV
Rated Capacity	250AH(12800WH)
Rated Voltage	51.2V
Discharge end voltage	44.0V
Charging limit voltage	58.4V
Warranty	5 years
Design life	More than 20 years
Charging temperature	0 to +50
Operating temperature	-20 to +65
Communication function	RS485/RS232/CAN protocol
Protection functions	overcharge protection, over-discharge protection, over-current protection, short circuit protection, over-temperature protection, and low battery alarm.

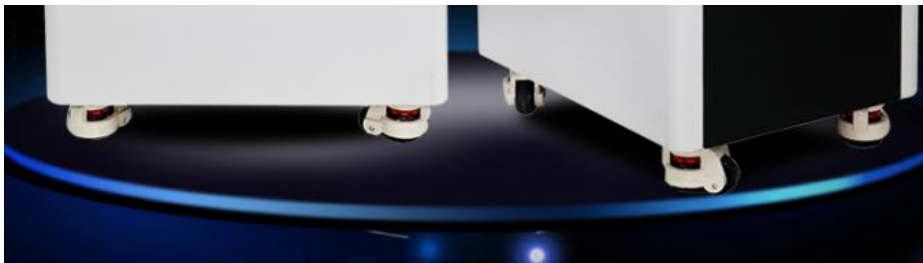
## Product Description

# LiFePO4 Solar Battery

Provides OEM/ ODM services, full technical support,  
professional solar system solutions based on project demands.

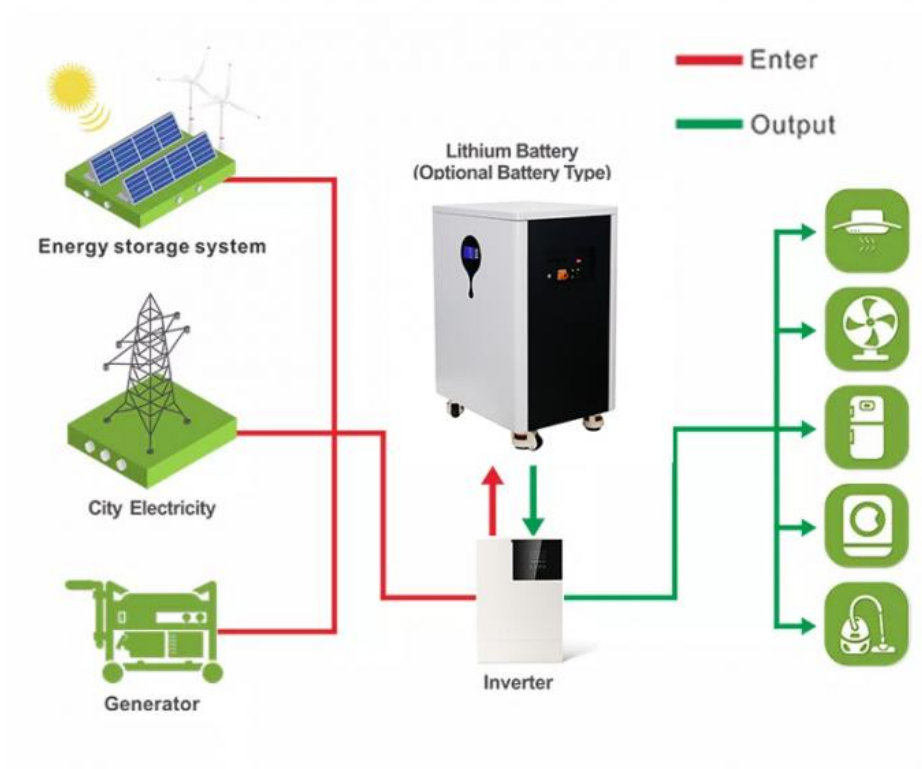
Meet household electricity demand



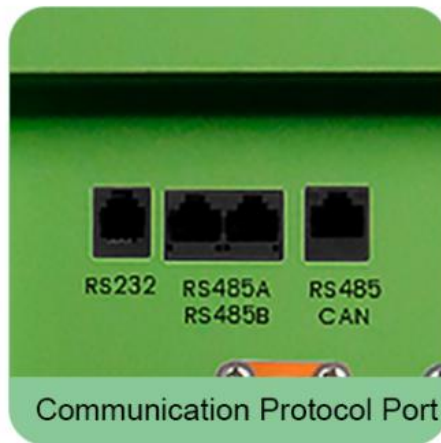


- Vertical design with wheels for easy movement
- Maximum support 64 sets in parallel
- 24V, 48V LiFePO4 pack, Safe, reliable and longer life
- Built-in intelligent BMS system to balance all cells in short time.
- Built-in automatic protection can prevent overcharge, overdischarge, overvoltage, short circuit and over temperature
- With RS485/RS232/CAN communication functions better match solar inverter
- Cycle life ≥ 6000 times, 5 years warranty, design life is 20 years
- LCD display showing the working data
- With equalization module, all-round protection and unattended operation
- Home energy storage, photovoltaic energy storage projects, Wind energy storage, UPS, Energy storage of base station, Fire emergency equipment, RV, etc.

# Product connection diagram



## Detail display





## Internal structure display



# Product details

· ESK-2425CV



· ESK-4825CV



Item	Specification	
Model	ESK-2425CV	ESK-4825CV
Rated capacity	250AH (6400WH)	250AH (12800WH)
Rated voltage	25.6V	51.2V
Charging voltage	29.2V	58.4V
Max charging current	100A	
Max continuous discharge current	100A	



Weight	75kg	130kg
Dimension (L * W * H) mm	555*410*460	555*410 *770
Display	LCD display	
Warranty	5 years	
Cycle life	≥ 6000 times	
Max parallel	64 sets	
Shell material	Painted steel shell	
Charging temperature	0 to + 55 ° C	
Operating temperature	-20 to + 65° C	
Communication function	CAN/RS485/RS232	
Certificate	CE FCC UKCA UN38.3 MSDS	
Protection functions	Overcharge protection, over discharge protection, over-current protection, short circuit protection, over temperature protection and low voltage alarm.	

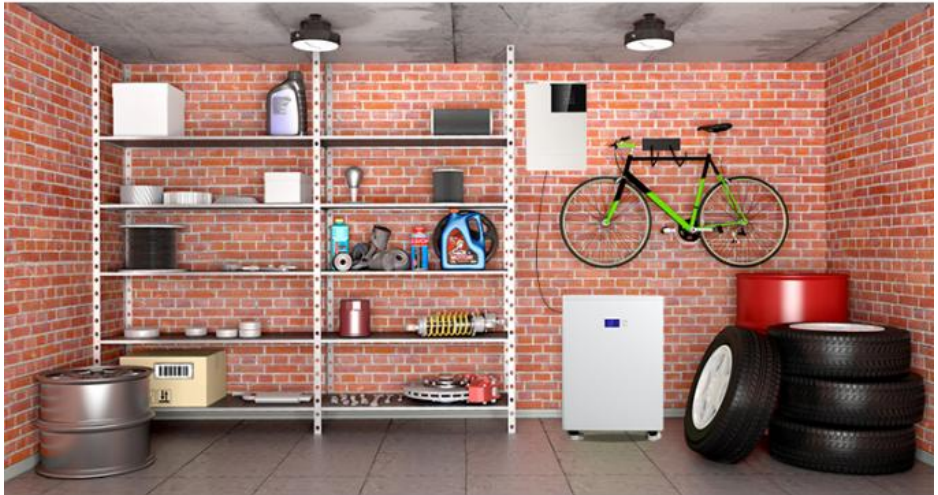




## Application scenarios









## Our Cooperation Partner

**LONGi** 隆基

**PHILIPS**



**Schneider**  
Electric  
施耐德电气



**ZTE** 中兴

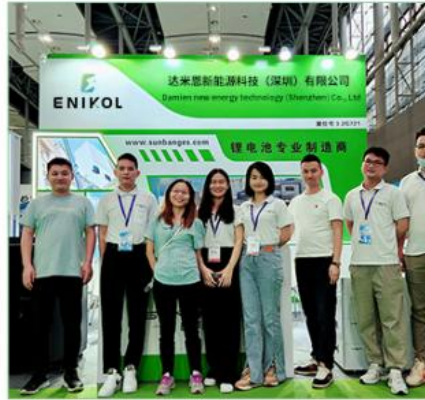
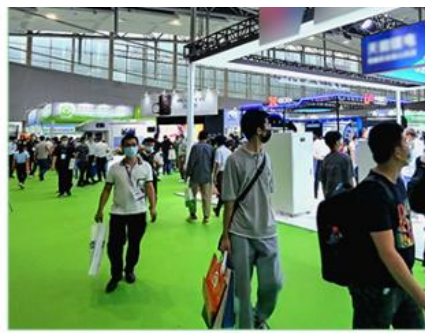
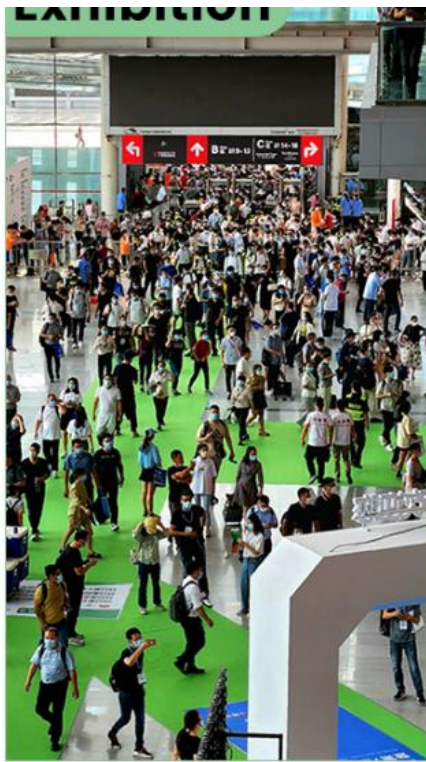


**EVE** 亿纬锂能

**CATL**  
宁德时代







## Complete Product Certification



