



## Lifepo4 48V Home Energy Storage Battery Solar 24V 250ah Lithium Ion Battery 12kwh

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
- Model Number: ESK4825CV
- Minimum Order Quantity: 2 sets
- Price: \$1,684.00/sets 2-20 sets
- Packaging Details: Colorful box
- Supply Ability: 1000 Set/Sets per Month



### Product Specification

- Battery Type: Lithium Ion
- Rated Capacity: 6400WH/ 12800WH
- Rated Voltage: 25.6V/ 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
- Warranty: 5 Years
- OEM/ODM: Yes(Accepted)
- Inverter Type: Pure Sine Wave
- Power Source: Gas Generator, Car, Solar Panel
- Special Features: Wireless Charging, Remote Control, RV Port
- Controller Type: MPPT



### More Images



## Product Description

### High Voltage 48v Battery 250ah Power Solar Lifepo4 Battery Storage 24v Lithium Ion Battery 12kwh

Noise reduction: Home energy storage batteries operate silently, eliminating the noise associated with diesel generators or other backup power sources, resulting in a more peaceful and comfortable living environment.

Long lifespan: Many home energy storage batteries have a long operational lifespan, lasting for a decade or more, providing reliable energy storage and cost savings over an extended period.

## Specification

item	value
Place of Origin	China
	Guangdong
Brand Name	ENIKOL
Model Number	ESK-CV
Battery Type	Lithium Ion, LiFePO4
Rated Capacity	6400WH/ 12800WH
Rated Voltage	25.6V/ 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
Warranty	5 years
OEM/ODM	Yes(Accepted)

## Product Description

# LiFePO4 Solar Battery

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

Meet household electricity demand





**MSDS**

Material Safety Data Sheet

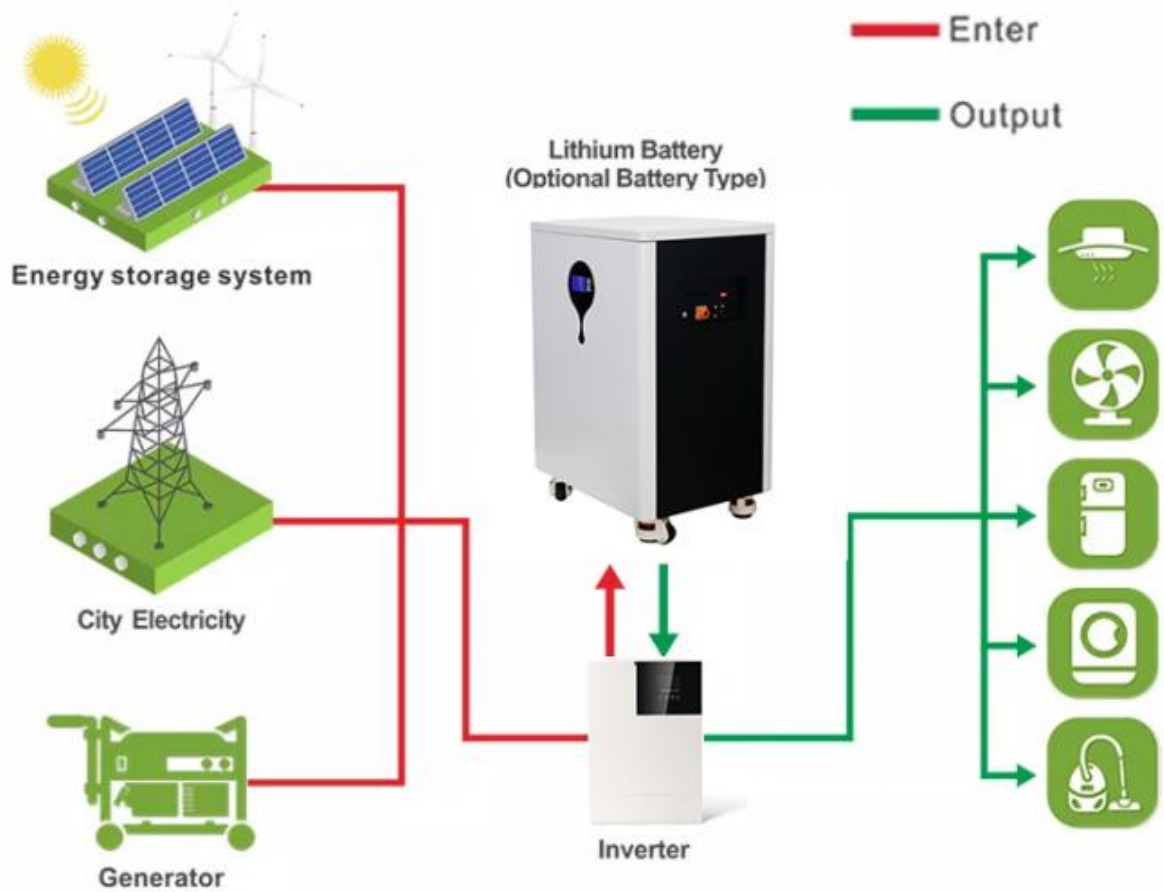


**UK  
CA**

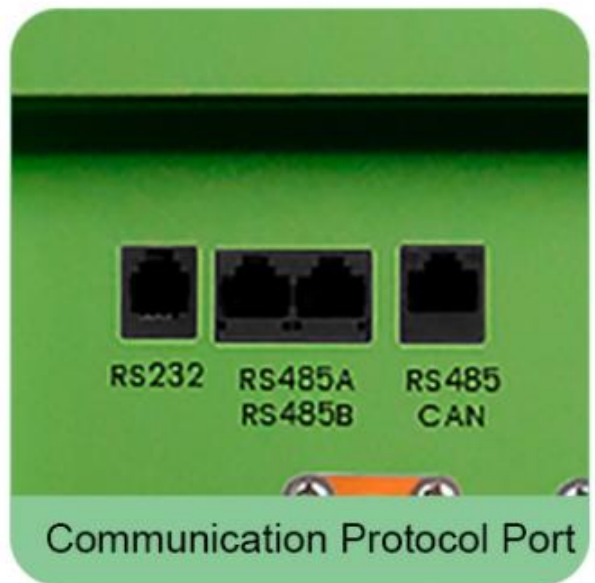
**UN38.3**

- 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.	

**Maximum 64 sets in parallel**  
**Parallel Connection up to 64 sets**



**Our Cooperation Partner**

**LONGI** 隆基

**PHILIPS**

  
中国节能

**Schneider**  
Electric  
施耐德电气

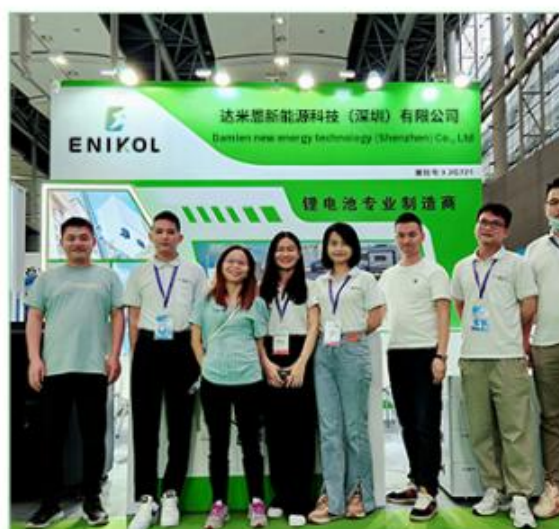
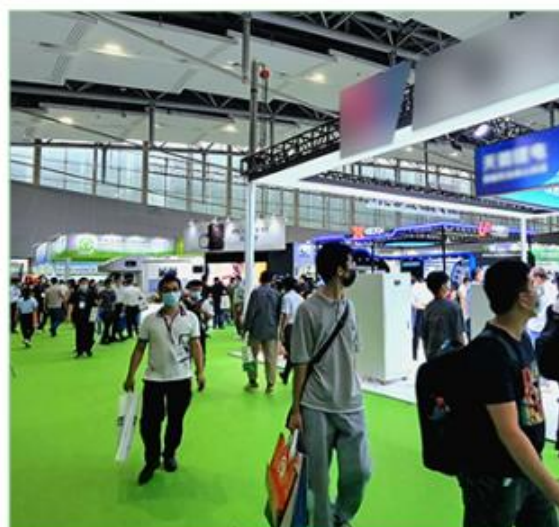
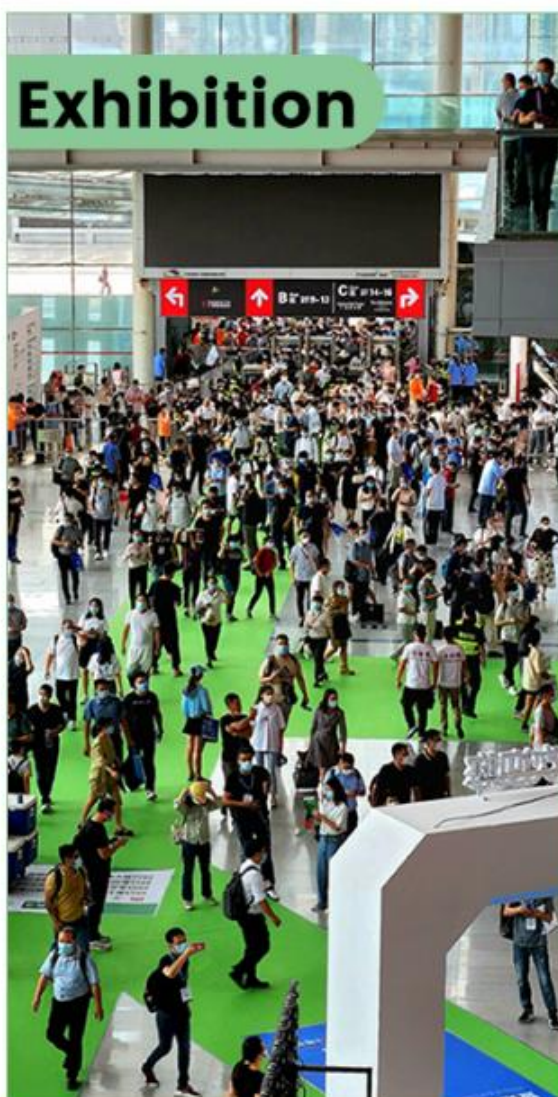


ZTE中兴



EVE 亿纬锂能

CATL  
宁德时代



# Complete Product Certification

**CMC 1015846**  
众测 检测

Report No.: CMC220721008M01

**Material Safety Data Sheet**  
化学品安全技术说明书

Report No.: CMC220721008M01  
报告编号: CMC220721008M01

Name of sample: LFP/PO4 battery pack  
样品名称: 磷酸铁锂电池包

Model: ESK4810CR

Type: 51.2V 100Ah 5120Wh

Client: Damien new energy technology (Shenzhen) Co., Ltd  
委托单位: 达米新新能源科技(深圳)有限公司

Address: Plant A, Yeming mould Industrial Park, Gemyu Road, Tanliao community, Yutang street, Guangning District, Shenzhen  
地址: 深圳市龙岗区玉塘街道新寮社区恒玉路恒模模具工业园7-15A栋

Tested: 检测: *Ruben Sun*  
Reviewed: 审核: *Yifan Liu*  
Date of issue: 2022.08.01  
签发日期: 2022.08.01

Approved: 批准: *Yifan Liu*  
Seal of CMC: 众测 检测

CMC Testing International (Shenzhen) Co., Ltd.  
众测检测认证(深圳)有限公司

101, Building B, Huihuang Industrial Park, Lianhu Road, Huihuang Community, Futian Street, Baoan District, Shenzhen, Guangdong, China  
101 栋 B 座, 汇恒工业厂房, 莲湖路, 汇恒社区, 福田街道, 宝安区, 深圳市, 广东省, 中国

400-1088-000  
info@cmctest.com  
www.cmc-test.com

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**CERTIFICATE**

**ATTESTATION**  
of conformity with UK legislation

Certificate's Holder: Damien new energy technology (Shenzhen) Co., Ltd.  
Address: Plant A, Yeming mould Industrial Park, Gemyu Road, Tanliao community, Yutang street, Guangning District, Shenzhen, China  
Manufacturer: Damien new energy technology (Shenzhen) Co., Ltd.  
Address: Plant A, Yeming mould Industrial Park, Gemyu Road, Tanliao community, Yutang street, Guangning District, Shenzhen, China  
Product Name: Power Lion battery  
Product Model (s): ESK4820CWP, ESK4820CW, ESK4810CW, ESK4810CR, ESK4820CR, ESK4810CWP, ESK4820D, ESK4820, ESK4820V, ESK4820CV  
Trade Mark: N/A

Complies with the requirements of the:

UK EMC Regulations (2016/1091/1) (Schedule 1.1.4)	BS EN IEC 61000-6-3:2021
UK EMC Regulations (2016/1091/1) (Schedule 1.1.5)	BS EN IEC 61000-6-1:2019

Certificate Number: HQ200264315E  
Report No.: HQ200264315-1ER  
Registration Date: Sep. 30, 2022

General Remarks:  
The tests were performed in normal operation mode.  
The test results apply only to the certificate sample tested.  
This certificate does not imply assessment of the production of the product.  
The UKCA marking may be affixed to the product if all relevant UK legislation are fulfilled.

Shenzhen HUK Testing Technology Co., Ltd.  
101, Building B, Huihuang Industrial Park, Lianhu Road, Huihuang Community, Futian Street, Baoan District, Shenzhen, Guangdong, China  
101 栋 B 座, 汇恒工业厂房, 莲湖路, 汇恒社区, 福田街道, 宝安区, 深圳市, 广东省, 中国

**SUPPLIER'S DECLARATION OF CONFORMITY**

**ATTESTATION**

The Product has been tested and found compliance with the requirement of 4T CFR of PART 15 limit for radiation and conduction emission.  
Based on the following criteria and procedures, product complies with FCC rules conformity assessment:

Certificate's Holder: Damien new energy technology (Shenzhen) Co., Ltd.  
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Manufacturer: Damien new energy technology (Shenzhen) Co., Ltd.  
Address: Plant A, Yeming mould Industrial Park, Gemyu Road, Tanliao community, Yutang street, Guangning District, Shenzhen, China  
Product Name: Power Lion battery  
Product Model (s): ESK4820CWP, ESK4820CW, ESK4810CW, ESK4810CR, ESK4820CR, ESK4810CWP, ESK4820D, ESK4820, ESK4820V, ESK4820CV  
Trade Mark: N/A  
Procedure: ANSI C63.4:2019  
Related Standards: FCC Part 15 Subpart B

Certificate Number: HQ200264315E  
Report No.: HQ200264315-1ER  
Registration Date: Sep. 30, 2022

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**CERTIFICATE**

**ATTESTATION**  
Certificate of Compliance

Technical file of the company mentioned below has been inspected and audit has been completed successfully.  
The EMC Directive 2014/53/EU has been taken as references for these processes:

Certificate's Holder: Damien new energy technology (Shenzhen) Co., Ltd.  
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Trade Mark: N/A  
Related Directive: 2014/53/EU  
Related Standards: EN IEC 61000-6-3:2021  
EN IEC 61000-6-1:2019

Certificate Number: HQ200264314E  
Report No.: HQ200264314-1ER  
Registration Date: Sep. 30, 2022

Shenzhen HUK Testing Technology Co., Ltd.  
101, Building B, Huihuang Industrial Park, Lianhu Road, Huihuang Community, Futian Street, Baoan District, Shenzhen, Guangdong, China  
101 栋 B 座, 汇恒工业厂房, 莲湖路, 汇恒社区, 福田街道, 宝安区, 深圳市, 广东省, 中国



86 17727596282



andy@enikolnewenergy.com



enikolnewenergy.com

Guangming District, Shenzhen, Guangdong Province, China