

# Lithium Iron Solar Home Energy Storage Battery 48V 250ah 300ah Lifepo4 Battery

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: ESK4825CV
- Minimum Order Quantity: 2 pieces
- Price: \$1,565.00/pieces 2-99 pieces
- Supply Ability: 2000 Piece/Pieces per Week

ENIKOL



51.2V

250Ah

## Product Specification

- Weight: 156kg
- The Charging Ratio: 0.5C
- The Discharge Rate: 1C
- Storage Type: Standard Storage
- Anode Material: LFP
- Application: Home Appliances, Electric Power Systems, Solar Energy Storage Systems, Uninterruptible Power Supplies
- Rated Capacity: 250AH(12800WH)
- Rated Voltage: 51.2V
- Display: LCD
- Max Parallel: 16/64 Sets
- Cycle Life: ≥6000 Times
- Size: 550\*410\*775mm
- Shell Material: Painted Steel Shell(Optional)
- Communication Function: RS485/RS232/CAN Protocol



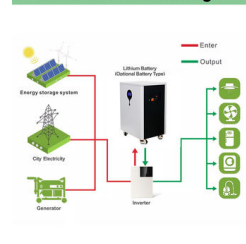
## More Images



### Detail display



### Product connection diagram



## Product Description

### High Quality Lithium Iron Battery 48v 250ah Lifepo4 Battery Solar 300ah Smart Household Energy Battery

48V 250ah 300ah Rechargeable LiFePO4 48V 250ah 300ah Lithium Battery for home energy storage  
Household energy storage 48V 250ah 300ah LiFePO4 Lithium Battery  
Home energy storage 48V 250ah 300ah LiFePO4 lithium battery  
Home energy storage 48V 250ah 300ah Rechargeable LiFePO4 lithium battery  
LiFePO4 lithium battery 48V 250ah 300ah Rechargeable for Household energy storage

## Specification

item	value
Brand Name	ENIKOL
Model Number	ESK4825CV
Place of Origin	China
	Guangdong
Weight	156kg
The charging ratio	0.5C
The discharge rate	1C
Storage Type	standard storage
Warranty	5 years
Anode Material	LFP
Application	Home Appliances, Electric Power Systems, Solar Energy Storage Systems, Uninterruptible Power Supplies
Rated Capacity	250AH(12800WH)
Rated Voltage	51.2V
Display	LCD
Max Parallel	16/64 sets
Cycle life	≥6000 times
Size	550*410*775mm
Shell Material	Painted steel shell(Optional)
Communication function	RS485/RS232/CAN protocol
OEM/ODM	Yes(Accepted)
Certification	CE, FCC, UKCA, UN38.3, MSDS

## 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.

# 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	200A	
Weight	80kg	156kg
Dimension (L * W * H) mm	555*410*460	550*410 *775
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





# Application scenarios







# Our Cooperation Partner

**LONGI** 隆基

**PHILIPS**



**Schneider Electric**  
施耐德电气

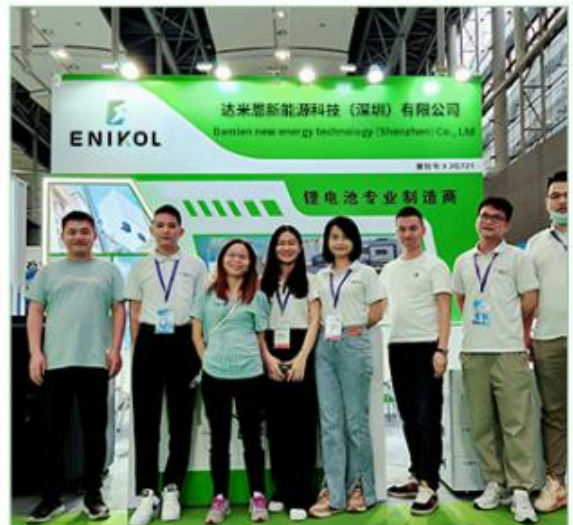
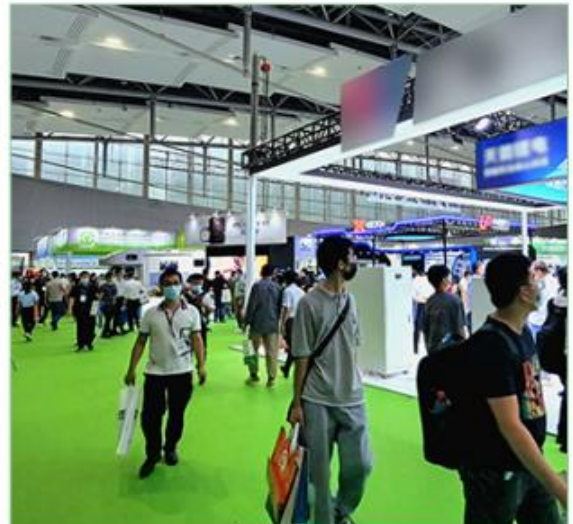


**ZTE** 中兴



**EVE** 亿纬锂能

**CATL**  
宁德时代



# Complete Product Certification

**CMC 1015M**  
众测检测

Report No.: CMC22072100M01

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

Report No.: CMC22072100M01  
报告编号: CMC22072100M01

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: 深圳市光明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, Fushan Street, Baoan District, Shenzhen, Guangdong, China  
101 栋 B 座 101 室 宝安区 西乡街道 汇湖社区 恒湖路 恒湖工业园 7-15A 栋 深圳市宝安区 西乡街道 汇湖社区 恒湖路 恒湖工业园 7-15A 栋

400-999-0000  
4009990000  
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: HQ20026431SE  
Report No.: HQ20026431S-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 endorsement 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, Fushan Street, Baoan District, Shenzhen, Guangdong, China  
101 栋 B 座 101 室 宝安区 西乡街道 汇湖社区 恒湖路 恒湖工业园 7-15A 栋 深圳市宝安区 西乡街道 汇湖社区 恒湖路 恒湖工业园 7-15A 栋

**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.  
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  
Procedure: ANSI C63.4-2019  
Related Standards: FCC Part 15 Subpart B

Certificate Number: HQ20026431SE  
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Registration Date: Sep. 30, 2022

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101 栋 B 座 101 室 宝安区 西乡街道 汇湖社区 恒湖路 恒湖工业园 7-15A 栋 深圳市宝安区 西乡街道 汇湖社区 恒湖路 恒湖工业园 7-15A 栋

**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: HQ20026431SE  
Report No.: HQ20026431S-1ER  
Registration Date: Sep. 30, 2022

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