Company Profile



www.einnova-solarline.com





contents.





Company Profile

- Group company--China Jiangsu International Group founded in 1980, dedicated to construction, contracting, real estate development, international business etc.;
- Einnova Solarline set up in 2008, focusing on solar modules manufacturing and R&D;
- Einnova solar modules used and installed in more than 50 countries all over the world;
- Accumulated installation quantity more than 8GW;
- 2GW production capacity for solar modules;
- > 1500MW for standard solar panels;
- > 500MW for customized solar products.
- Four factories in mainland China and Taiwan.













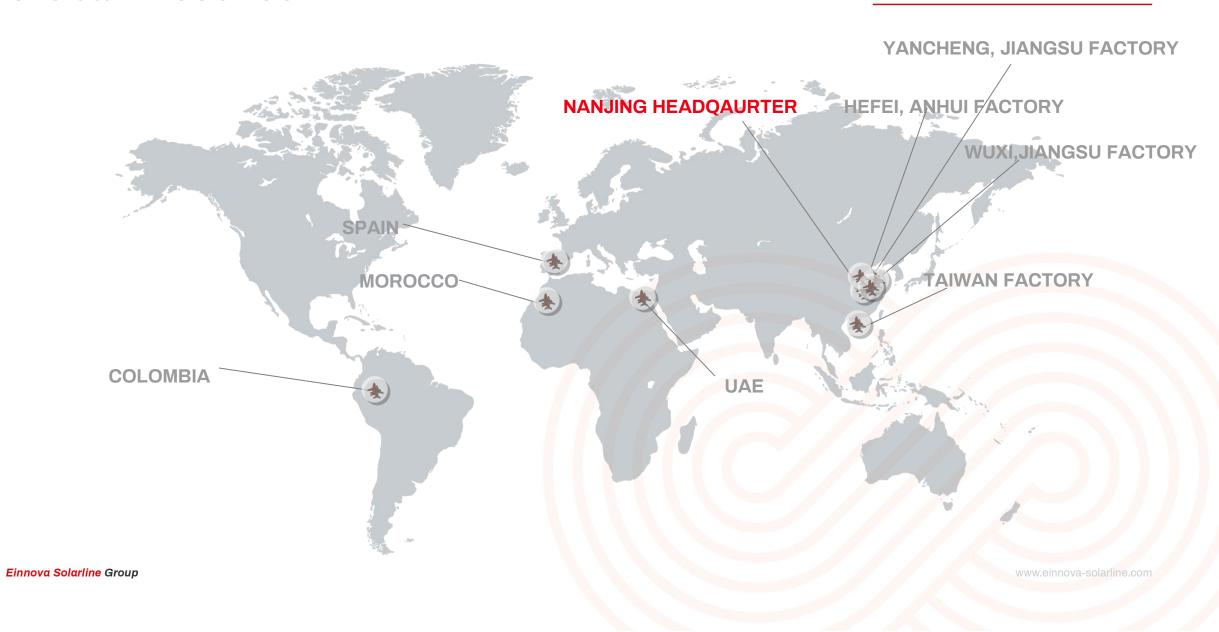






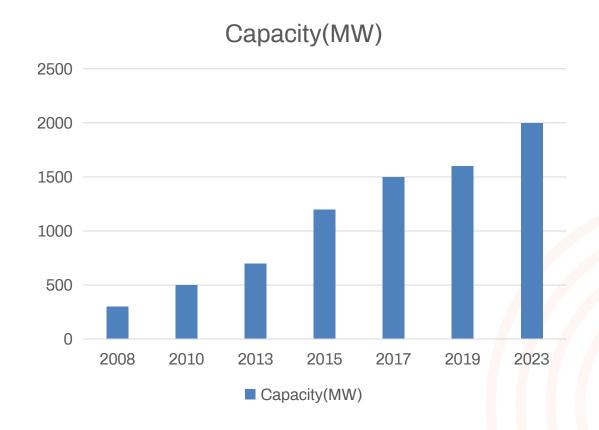
Global Presence





Production Capacity Development





•2008: 300MW

•2010: 500MW

•2013: 700MW

•2015: 1200MW

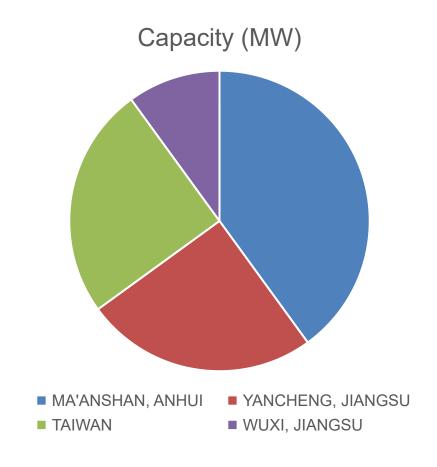
•2017: 1500MW

·2019: 1600MW

•2023: 2000MW

Production Base





- MA'ANSHAN, ANHUI: 800MW, 500MW for standard solar panels from 400w-700w; 300MW for customized products and small solar panels from 5w-300w.
- YANCHEN, JIANGSU: 500MW for standard solar panels from 400w-700w.
- WUXI, JIANGSU: 200MW for customized products and small panels from 5w-300w.
- TAIWAN: 500MW for both standard and customized solar panels.

Supplier Chain Partners



Solar Cell







EVA







Back Sheet







Glass







Supplier Chain Partner



Junction Box







Silicon Gel





Frame





Ribbon







Flux





Worldwide Client-Europe











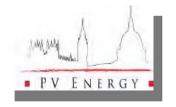
































Worldwide Client-Asia











































Einnova Solarline Group

Worldwide Client-America





























Worldwide Client-Africa





















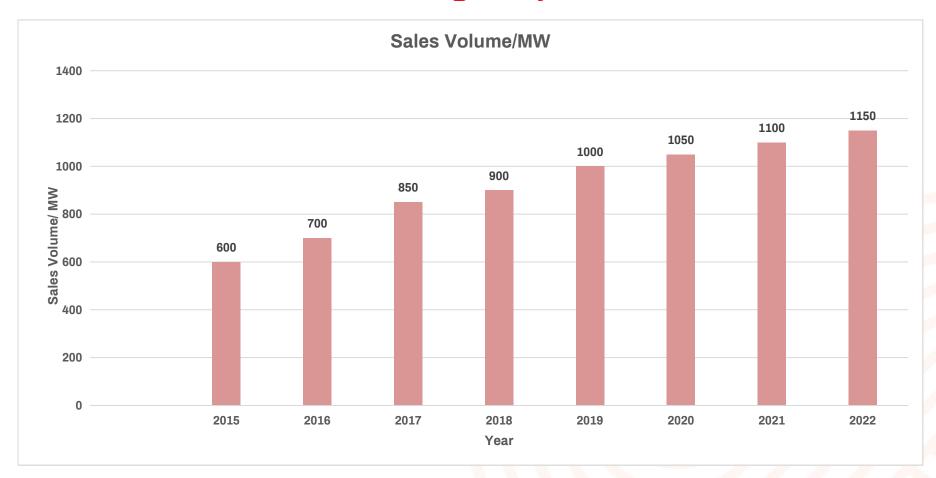




Sales Volume



Cumulative sales volume more than 8GW globally.



Core Advantages



- 1. Qulity First Mindset;
- 2. High Moral Standard based on honesty, respect, trust, openness and collaboration with our clients, partners and associates;
- 3. 16+ years' rich experience for manufacturing;
- 4. Competitive cost structure: compact team, no redundancy; long term strategic partnership with suppliers.
- 5. Flexible on order quantiy& product models, types etc.;
- 6. OEM&ODM service available;
- 7. Concertration on solar products manufacturing which helps us more easily catch up with the latest technology development in solar industry and requests less investment on fixed assets;
- 8. Quick and time-saving decision-making management structure and system;
- 9. Customized and timely service;
- 10. Moderate company size suitable for variety of clients and to better withstand market ups and downs.





Workshop Overview



















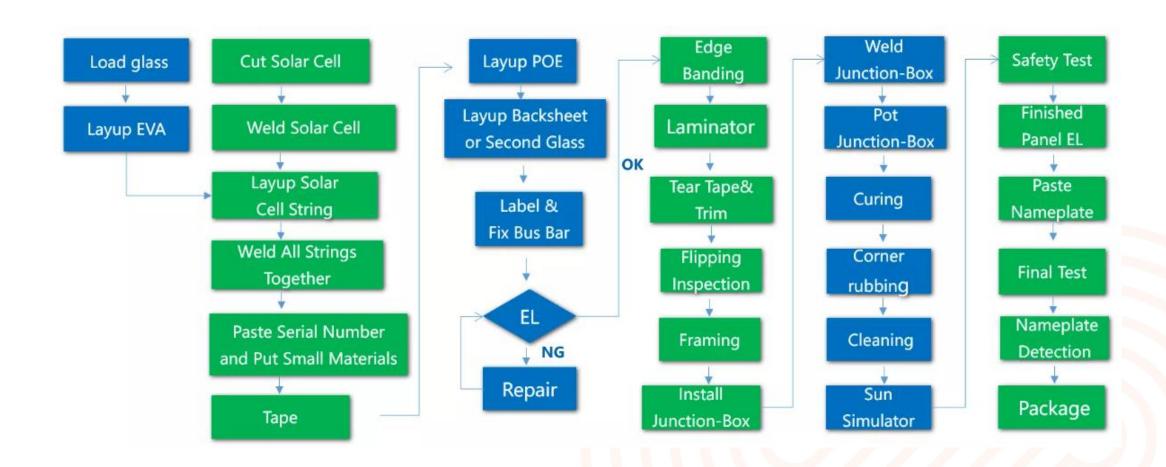






Production Process Chart

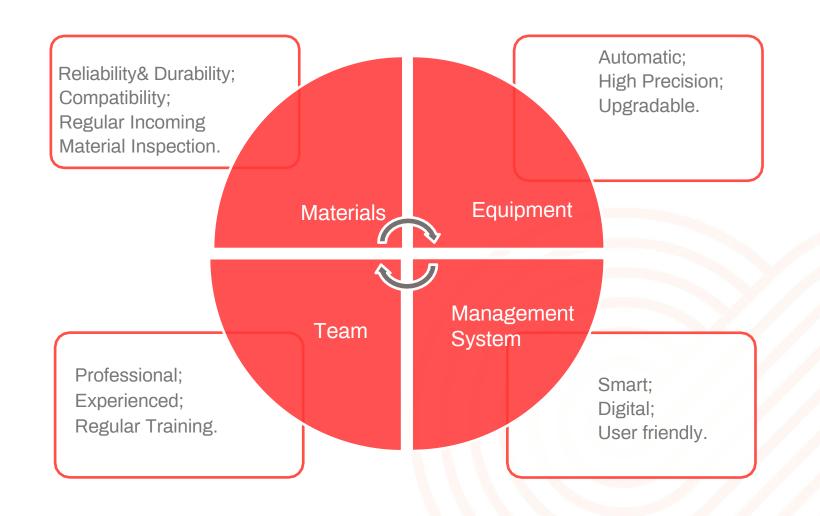




Einnova Solarline Group
www.einnova-solarline.com

Systematic Quality Control





Einnova Solarline Group

Testing Lab





Chemical Analysis



UV Aging Test



Thermal Cycle Test -45°C to +85°C Damp Heat Test 85°C, 85% RH

Module Features



- High efficiency and power density;
- Excellent performance in weak light;
- PID free;
- Robust design for demanding climate conditions;
- Good shading tolerance;
- Positive power tolerance up to +5w;
- 30 Year Product, 30 Year Linear Power Warranty;
- IEC, TUV, CE, RETIE, Fire Resistance, Hail Resistance, INMETRE certified.





















Standard Solar Panels

- Mono, Poly
- PERC, TOPCon N, HJT, BC etc.
- Full Cell, Half Cut, 1/3 Cut etc.
- White, black, transparent, color
- Mono-facial, Bi-facial
- Single glass, Dual glass/1.6, 2, 3.2mm, 4mm, 6mm etc.
- 300-700W







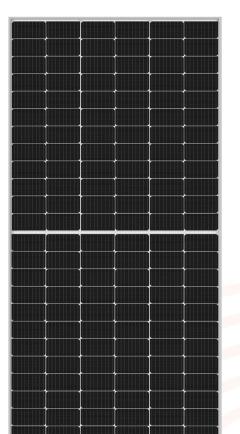




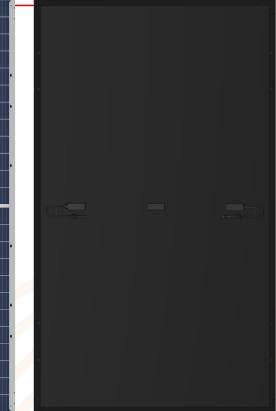












ZINNOVA









Cutomization& BIPV Products

- 1. Solar Tiles;
- 2. Transparent Solar Panels;
- 3. Color Solar Panels;
- 4. Solar Pavement;
- 5. Solar Facade;
- 6. Flexible;
- 7. Foldable and portable;
- 8. System kits etc.





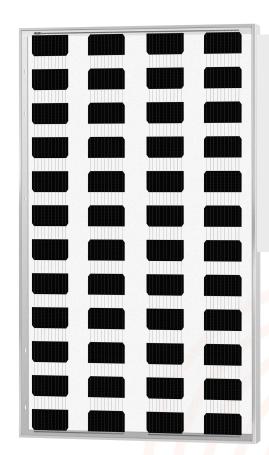




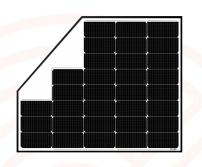






















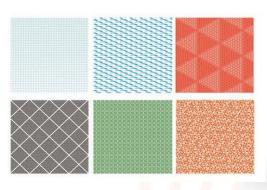


Customized Solar Panels:



All our modules could come in different styles, with possibility to adjust design of:

- Size and shape
- Color of glass, solar cells, transparency
- •Cell arrangement, gap differentiation
- Thickness and weight
- Efficiency, Junction Box
- Busbar coverage
- Adapt to various mounting
- Other variations on demand























Residential Storage System



Features:

- Safe, long lifetime, adaptable to various inverters on the market;
- -Lithium-ion battery cell;
- -Intelligent management system BMS

Models:

- -Stackable-Mounted
- 7.5kwh/10kWh/12.5kwh/15kwh/17.5kwh/20kwh
- -Wall-Mounted 5kwh /10kWh /20kWh /30kwh /40kwh>Rack-Mounted 5kwh/10kWh /15kwh/20kwh























No. Z2 108801 0001 Rev. 01 Holder of Certificate: Einnova Solarline CERTIFICADO CEPTUФИКАТ . CERTIFICATE ZERTIFIKAT



TUV®

www.pvcycle.org

CERTIFICATE

Energy Corp. Limited (Nanjing)
Room 818, Building 1, No. 58, Yunjin Road, Jianye District
210000 Nanjing Chy, Jiangsu Province
PEOPLES REPUBLIC OF CHINA

Certification Mark:



Crystalline Silicon Terrestrial Photovoltaic (PV) Modules Product:

Mono & Poly Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TDV SDD Group have to be complied. For

701262007701-01

Valid until: 2026.05.22

(Zhulin Zhang)

TÜV SÜD Product Service GmbH + Certification Body + Ridlerstraße 65 + 80339 Munich + Germany

Certificate nº CSVO-9XAH-Y67L-B956-2B56-E0CL PV CYCLE

PV CYCLE a.i.s.b.l.

hereby declares that based on current commitments

EINNOVA SOLARLINE ENERGY CORP. LIMITED (NANJING)

(Business registration nr.: 91320105062625970K)

- 1) benefits from collection and treatment services* for discarded PV panels and solar energy equipment
- 2) adheres to the high principle of PV CYCLE's PV waste management
- 3) advocates and supports the development of sustainable PV waste management on a global scale
- 4) contributes to sustainable PV waste management by informing customers about legal developments and requirements

This certificate is valid until 31/12/2021 around the globe excluding the European Union Member States, UK, the EFTA countries and any other countries or regions where Extended Producer Responsibility legislation is in place.

Brussels, 01/01/2021

Jan Clyncke

Managing Director

"This membership does not cover the financing of collection, recycling and treatment of discarded PV panels and solar energy equipment. Details can be found in the signed terms and conditions.

The validity of this certificate can only be confirmed on https://joorlal.pvc/cie.org/en-US/VenfyMemberCertificate/
PV CYCLE a.i.s.b.1 is registered in Brussels, Belgium with BE 0893.027.827.



Escanear para verificar el estado

del certificado o consultar en

www.certicheck.com.co

CERTIFICADO DE CONFORMIDAD DE PRODUCTO **ESQUEMA 5**

Certicheck S.A.S. otorga el presente certificado de conformidad de producto a:

EINNOVA SOLARLINE ENERGY CORP. LIMITED (NANJING) NIT 91320105062625970K

Room 818, building 1, No 58, Yunjin road, Jianye District, Nanjing, Jiangsu, China

Para el producto:

Paneles Solares Fotovoltaicos

El cual satisface los requisitos del referente normativo:

Numeral 20.22 de la Resolución 90708 del 30 de agosto de 2013 y adendas modificatorias del Reglamento Técnico de Instalaciones Eléctricas - RETIE (Colombia)

Fecha de certificación inicial: 2022/07/13 Fecha de siguiente seguimiento: 2023/07/13

Fecha de última modificación: Fecha de vencimiento del certificado: 2025/07/12

La información completa de características e identificación del producto se encuentran en las hojas anexas a este documento, las cuales son parte integral del mismo. Este documento consta de 3 páginas. La vigencia y validez de este certificado depende del cumplimiento de lo estipulado en el RC-CR-001 Reglamento de certificación de productos, de CERTICHECK











intertek

Test Report

Report No.: 210802299SHA-001

Relatório de testes em laboratório

Performance Measurement at STC of Photovoltaic(PV) Modules Medição do desempenho de módulos Fotovoltaicos em condições padrão (STC)

: 210802160SHA-001 Report No.

Relatório Nº

Date of issue Data de questão : 09/08/2021

Client / Manufacturer Cleinte / Fabricante

Einnova Solarline Energy Corp. Limited (Nanjing)

Room 818, Building 1, No. 58, Yunjin Road, Jianye District, Nanjing, China

Brand · Finnova Solarline

Marca

Product : Photovoltaic (PV) Module(s) Producto a ensaiar

Module Model

Modelo de modulo

: ESM-550S

: 08/23/2021

Date of receipt

Data de recepção

Testing Location Intertek Testing Services Ltd. Zhejiang

Building 2, Juanhu Science and Technology Innovation Park, No. 500, Local dos ensaio

Shulyueting East Road, Haining, Zhejiang, China

Test Specification : 10.1, 10.2, 10.3, 10.15 of IEC 61215:2005

Crystalline silicon terrestrial photovoltaic (PV) modules - Design Ensaio realizados

qualification and type approval

Prepared by: Reviewed by: Realizado por Revisto por

Clark Yang Eddie Shang Certification Engineer Reviewer PV Division PV Division

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certification No. 117 22 QU 0119-01 ROS

This is to certify that

EINNOVA SOLARLINE ENERGY CORP. LIMITED (NANJING)

Unified social credit code 91320105062625970K

Room 818, Building 1, No. 58, Yunjin Road, Jianye District,

Nanjing, Jiangsu Province, China

Business Address

Room A, 10/F, Chunfeng Building, No. 37, Huaqiao Road,

Gulou District, Nanjing, Jiangsu Province, China

has been assessed and registered as meeting the requirements of

GB/T19001-2016/ISO9001:2015

Scope of approval Research & Development, Sales and Manufacture of Solar Modules

First Certification: 24 Jan. 2022 23 Jan. 2025

Shanghai Ingeer Certification Assessment Co.,Ltd.

Certification and Accreditation Administration of PRC:CNCA-R-2003-117 Tel: 400-182-9001/+96 21-51114700

Web: www.igas.org.on

Add: Room 801 HuaDing Mansion, 2368# West Zhongshan Rd., Xuhui District, Shanghai, China, 200235



The ownership of the certificate belongs to Shanghai Ingeer Certification Assessment Co., Ltd. The Information & validation of this certificate can be checked on the CNCA website. WWW.CNCA.GOV.CN and ICAS website, or by calling ICAS's clients services Dept. The certificate is only valid when used together with related permits when appropriate. If the organi above management system, ICAS has the right to withdraw the qualification certificate.

Certificate of Compliance

Certificate Number: ZTL-2020122202C

Applicant : EINNOVA SOLARLINE ENERGY CORP. LIMITED

Address : ROOM 818. BUILDING 1, NO.58. YUNJIN ROAD, JIANYE DISTRICT.

NANJING, CHINA

Manufacturer : EINNOVA SOLARLINE ENERGY CORP. LIMITED

Address

: West of Jingqi Road, South of Weiyi road, Tianchang City, Anhui Province,

Product : SOLAR MODULE

Trademark Einnova Solarline

Model No. : ESM310

ESM XXX, ESP XXX, ESM XXXH, ESP XXXH, ESM XXX-BDG.

ESP XXX-BDG, ESM XXX-BDGH, ESP XXX-BDGH, ESM-XXXS, ESP-XXXS,

ESM XXXBIPV, ESP XXXBIPV, ESM XXXSB, ESM XXXTB,

ESP XXXTB (XXX STAND FOR 1W-700W)

Test Standard

EN 61215-1-1:2016 EN 61215-1:2016

EN 61215-2:2017

This Attestation of Compliance is issued on a voluntary basis for electrical equipment below the voltage limits of Low Voltage Directive 2014/35/EU. The essential requirement are fulfilled accordingly based on the technical specifications applicable at the time of issuance. See also notes overleaf. It is only valid in connection with the test report number: ZTL-2020122202S



Shenzhen ZTL Testing Technology Co., Ltd.

No. 302, 3rd Floor, Qiaotou Chuangke Center, No.168 Yongfu Road, Fuhai Street, Baoan District, Shenzhen, China Fax: +86-755-27225865 Tel: +86-755-27225865 Email: ztl@ztl-lab.com Web: www.ztl-lab.com This Certificate of Conformity is based on single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant. Directives to be observed.

Einnova Solarline Group



Technical Report



Technical Report No.: 704062448201-00

Date: 2024-04-18

Einnova Solarline Energy Corp. Limited (Nanjing) (076043) Client:

Room 818, Building 1, No. 58, Yunjin Road, Jianye District, 210000 Nanjing City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA

Contact person: Ms. Vicky Chen

Einnova Solarline Energy Corp. Limited (Nanjing) (076043) Manufacturer:

Room 818, Building 1, No. 58, Yunjin Road, Jianye District, 210000 Nanjing City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA

Contact person: Ms. Vicky Chen

Einnova Solarline Energy Corp. Limited (Anhui) Factory:

Building No. 4, Qingxi industrial park phase two, Hanshan County,

Ma Anshan City, Anhui, China Contact person: Nicky Zhang

Crystalline Silicon Photovoltaic modules Test object:

> Model: See clause 1.4

IEC 61215-2:2021, Clause 4.1 Visual Inspection (MQT 01) Test specification:

IEC 61215-2:2021, Clause 4.6 Performance at STC (MQT 06.1)

IEC 61215-2:2021, Clause 4.3 Insulation test (MQT 03)

IEC 61215-2:2021, Clause 4.15 Wet leakage current test (MQT 15)

IEC 61215-2:2021, Clause 4.17 Hail test (MQT 17)

Purpose of examination:

. Testing and evaluation (visual / partial) according to the test

The test results show that the presented product is in compliance

with the above listed test specifications. Test result:



RAPPORTO DI PROVA N. 415106

TEST REPORT No. 415106

Cliente / Customer

EINNOVA SOLARLINE ENERGY CORP. LTD. (NANJING)

Room 818, Building 1, NO.58, Yunjin Road, Jianye District, Nanjing, China (PRC)

pannello fotovoltaico denominato "ESM-XXXT"

photovoltaic panel named "ESM-XXXT"

Attività / Activity



classificazione di reazione al fuoco secondo le norme UNI 9177:2008, UNI 9176:2010, UNI 8457:2010 e UNI 9174:2010

reaction to fire classification in accordance with standards UNI 9177:2008, UNI 9176:2010, UNI 8457:2010 and UNI 9174:2010

Risultati / Results

CLASSE DI REAZIONE AL FUOCO

1 (uno)

REACTION TO FIRE CLASS 1 (one)

Order: 100301

Provenienza dell'oggetto:

tum origin: campionato e fornito dal cliente

Identificazione dell'oggetto in accettazione:

2024/0596 del 26 febbraio 2024

Data dell'attività: Activity date: 14 marzo 2024

Luogo dell'attività:

Activity site: Istituto Giordano S.p.A. - Strada Erbosa Uno, 80 -

47043 Gatteo (FC) - Italia

Descrizione dell'oggetto* Riferimenti normativi Apparenchiature Modalità Risultati Contents
Description of item*
Narmative references
Apparatus
Method
Results

Einnova Solarline Group





Test Report issued under the responsibility of:



TEST REPORT IEC 62619

Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications

 Report Number.
 6184481.50

 Date of issue.
 2024-03-12

 Total number of pages.
 28

Name of Testing Laboratory

Test specification:

 Standard
 IEC 62619:2022

 Test procedure
 CB Scheme

 Non-standard test method
 N/A

TRF template used IECEE OD-2020-F1:2022, Ed.1.5

Test Report Form No...... EC62619B

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This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaime

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Is suing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

ATTESTATION OF CONFORMITY

Issued to:

Einnova Solarline Energy Corp., Limited (Nanjing) Room 710-62, No. 116 Suo Street, Jianye District, Nanjing, Jiangsu Province, P.R.

China

For the product: Lithium-Ion Battery

ZINNOVA

Trade name: Type/Model:

DEKRA

ESS-Wall-5K

Ratings: Refer to Annex

Manufactured by: Einnova Solarline Energy Corp., Limited (Nanjing)

Room 710-62, No. 116 Suo Street, Jianye District, Nanjing, Jiangsu Province, P.R.

China

Requirements: EN IEC 61000-6-1:2019

EN IEC 61000-6-3:2021

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6184483.50

This Attestation implies that the examined types are in accordance with the standards designated under the Electromagnetic compatibility directive 2014/30/EU.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DERAR is not the responsibility of

The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.

Amhem, 14 March 2024

Number: 6184483.01AOC

DEKRA Testing and Certification (Shanghai) Ltd.

Kreny Lin Kreny Li

Certification Manager

O Integral publication of this attestation and adjoining reports is allowed Page 1 of 2

CE

DE KRA Testing and Certification (Shanghai) Ltd. 3F #250 Jisangchangsan Road Shibei Hi-Tech Park, 200435 Jing'an District, Shanghai, China T 486.21 0056 7686 F +86.21 0056 7555 www.dekra-orgodud-eafety.com







运输危险性鉴别报告中

Identification and Classification Report for Transport of Goods

此报告本年度有效 有效期至2024年12月31日

危险物品

(Dangerous Goods)

报告编号: Issued No:

SEKXM202403286020LH040001

南京沃利特新能源科技有限公司

2024.03.29

生效日期:

Effective Date:

委托单位:

Applicant:

EINNOVA SOLARLINE ENERGY CORP. LIMITED (NANJING)

物品名称:

锂离子电池组 ESS-Wall-5K 51.2V 100Ah 5.12kWh

.. .. .

Lithium-lon Battery ESS-Wall-5K 51.2V 100Ah 5.12kWh

北京迪捷姆空运技术开发有限公司

Beijing DGM Air Transport Technology Development Co., Ltd.

第1页共5页







材料安全数据表

Material Safety Data Sheet



样品名称: 锂离子电池组 Sample name: Lithium-Ion Battery 样品型号: ESS-Wall-5K Sample model:

委托单位:

南京沃利特新能源科技有限公司

EINNOVA SOLARLINE ENERGY CORP. Applicant:

LIMITED (NANJING)

签发时间 Date of issue: 2024.03.21

Written by

Approved by 段27涛

Shenzhen Tiansu Calibration and Testing Co., Ltd.

Address: No.2, Jinlong Avenue, Longgang District, Shenzhen, Guangdong, China Web: www.tiansu.org E-mail: tsjo@tiansu.org





Page 1 / 17 Pages

Report No.: TSZ24030037-P02-R01





国际互认

UN38.3 检测报告 **UN38.3 Test Report**

样品名称: 锂离子电池组 Sample name: Lithium-Ion Battery 样品型号: ESS-Wall-5K Sample model:

委托单位:

南京沃利特新能源科技有限公司

EINNOVA SOLARLINE ENERGY CORP.

LIMITED (NANJING)

Shenzhen Tiansu Calibration and Testing Co., Ltd.

Address: No.2, Jinlong Avenue, Longgang District, Sherizhen, Guangdong, China

Applicant:



Report No. : TSZ24030037-P01-R01

Page 1 of 35

Test Report

Client	:	EINNOVA SOLARLINE ENERGY CORP, LIMITED (NANJING)
Address	1	Room 710-62, No.116 Suo Street, Jianye District, Nanjing, Jiangsu Province, P.R.China

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	1	Lithium-Ion Battery
Model/P.O. No.	:	ESS-Wall-5K
Manufacturer	1 :	Enerlution Power Technology Co., Ltd
Received Date	:	Mar 06, 2024
Test Period	1	Mar 06, 2024~Mar 15, 2024
Test Requested	:	EU Regulation (EC) No 1907/2006 (REACH)

Co	nelusion	
和 5-	to determine the 233 kinds of substances of very high concern (SVHC) in the submitted sample. According to the specified scope and analytical technique, concentration of each 233 SVHC is <0.1% in the submitted sample(s).	PASS

For Further Details, Please Refer To the Following Page(s)



Einnova Solarline Group





Projects



Einnova Solarline Group

www.einnova-solarline.com

Look forward to cooperating with you!

THANK YOU!

