# **Company Profile**





Company Introduction

#### Product

#### Projects









## **Company Profile**

- Group company China Jiangsu International Group founded in 1980, dedicated to construction, real estate development, international business etc.;
- Einnova Solarline set up in 2008, focusing on solar module 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;
- Four factories, state-of-the- art full production lines.





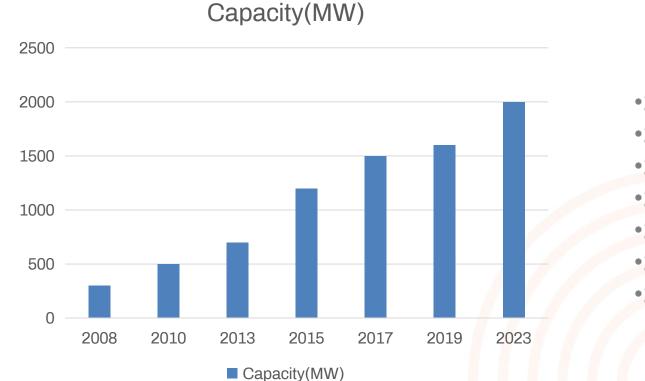
#### **Global Presence**





### **Production Capacity Development**





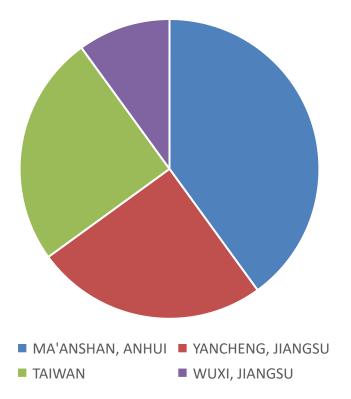
•2008: 300MW
•2010: 500MW
•2013: 700MW
•2015: 1200MW
•2017: 1500MW
•2019: 1600MW
•2023: 2000MW

**Einnova Solarline Group** 

#### **Production Base**



Capacity (MW)



- 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	EINNOV
Solar Cell		
EVA	F R S 福斯特 S K 斯威克 新材料·新未来 B E tterial 百佳年代	
Back Sheet	中未股份 CYBRID Magazine	<b>扩料</b> FERIAL
Glass	for a bound of a bound	



Einnova Solarline Group









### **Worldwide Client-America**





#### **Worldwide Client-Africa**

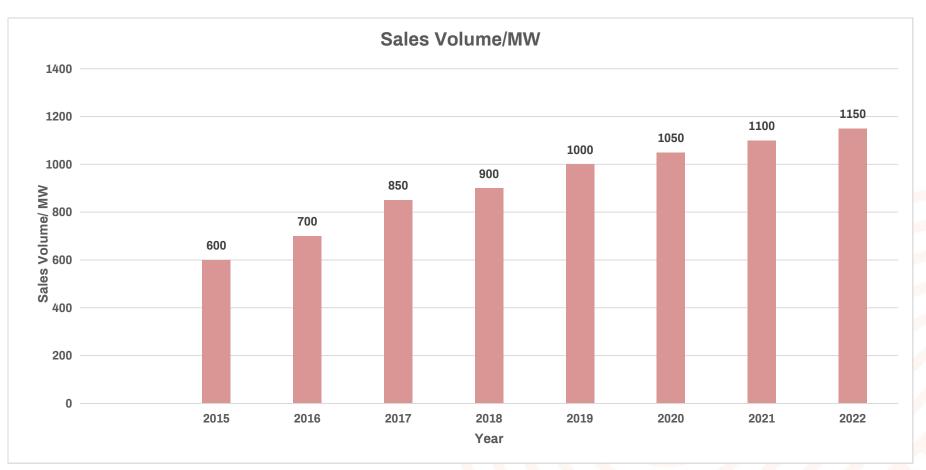








#### Cumulative sales volume more than 8GW globally.



### **Core Advantage**

- Reliable and premium quality;
- Competitve cost structure;
- Flexible on order quantiy& models;
- OEM&ODM service available;
- Concertration on solar module manufacturing which helps us easily catch up with the latest technology development in solar industry and requests less investment on fixed assets;
- Quick decision-making company structure;
- Customized and timely service;
- Moderate company size suitable for variety of clients and to better withstand market ups and downs.



**ZINNO** 



# Product Part Two

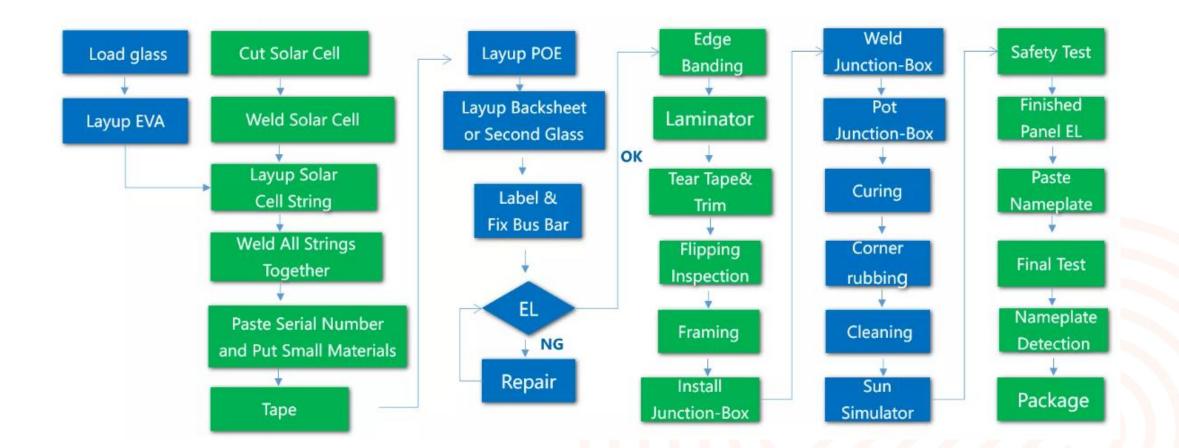
#### State of The Art Production Line





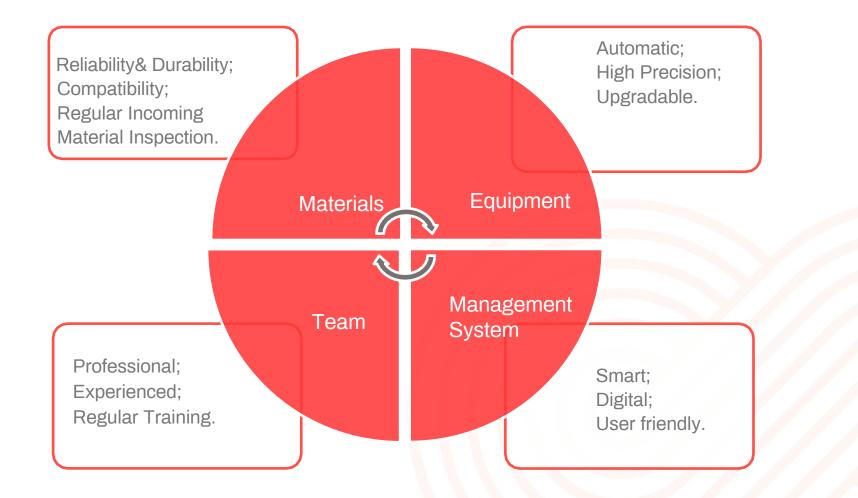
#### **Production Process Chart**





### Systematic Quality Control





Einnova Solarline Group











#### **Chemical Analysis**

UV Aging Test

#### Thermal-Cycle Test



## **Module Features**

•High efficiency and power density;

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







#### **Standard Solar Panels**

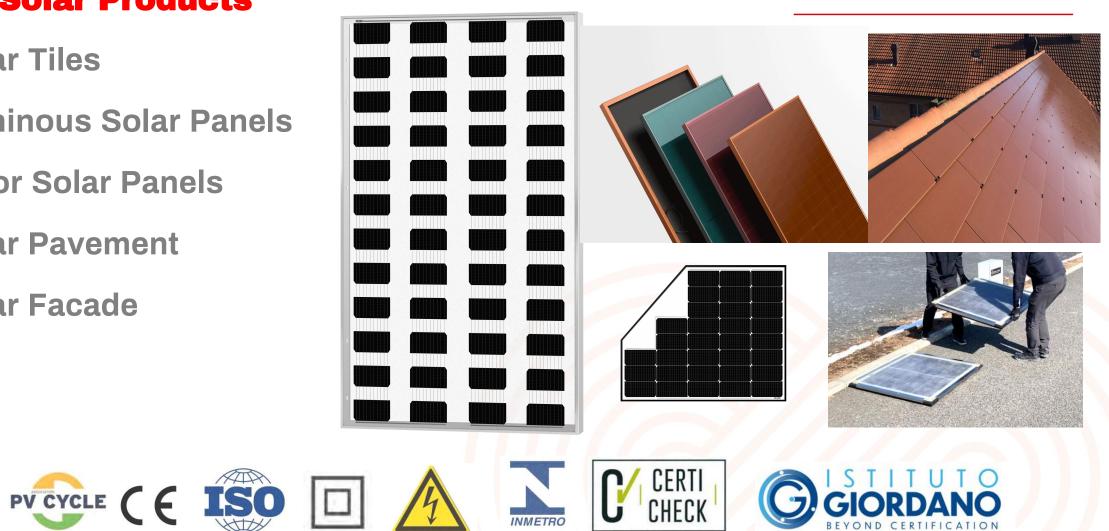
- Mono, Poly
- PERC, TOPCon N, HJT etc.
- Full Cell, Half Cut, 1/3cut etc.
- White, black, transparent, color
- Mono-facial, Bi-facial
- Single glass, Dual glass/1.6, 2, 3.2mm, 4mm, 6mm etc.
- 300-700W





#### **BIPV Solar Products**

- **1.** Solar Tiles
- 2. Luminous Solar Panels
- **3. Color Solar Panels**
- 4. Solar Pavement
- 5. Solar Facade





TUV



### **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 weightEfficiency, Junction Box
- •Busbar coverage
- Adapt to various mountingOther variations on demand









CHECK





#### **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





GIORD

**Einnova Solarline Group** 

**Einnova Solarline Group** 

#### **Portable Power Staion**

Features:

-Light weight and easy to carry onfor hiking, camping and fishing;

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### Certification

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Intertek	Page 1 of 16	Report No.: 210802299SHA-001
rocal Quality. Assured.	Test Report	
	Relatório de testes em labor	atono
	nce Measurement at STC of Photo apenho de módulos Fotovoltaicos	
Report No. Relatório Nº.	: 210802160SHA-001	
Date of issue Data de questão	: 09/08/2021	
Client / Manufacturer Cleinte / Fabricante	: Einnova Solarline Energy Corp. Lin Room 818, Building 1, No. 58, Yunj	nited (Nanjing) jin Road, Jianye District, Nanjing, China
Brand Marca	: Einnova Solarline	
Product Producto a ensaiar	: Photovoltaic (PV) Module(s)	
Module Model Modelo de modulo	: ESM-550S	
Date of receipt Data de recepção	:08/23/2021	
Testing Location Local dos ensaio	: Intertek Testing Services Ltd. Zhe Building 2, Juanhu Science and T Shuiyueting East Road, Haining, Z	echnology Innovation Park, No. 500,
Test Specification Ensaio realizados	: 10.1, 10.2, 10.3, 10.15 of IEC 612 Crystalline silicon terrestrial photo qualification and type approval	15:2005 roltaic (PV) modules – Design
Prepared by:	Reviewe	
Realizado por:	Revisto p	ior:
Zach Zhon		
Eddie Shang	Clark Ya	na
		19 () 19 ()

Reviewer

**PV Division** 



CERI



#### **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, China
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 D	irective 2014/35/EU. The essential requirement are fulfilled accordingly based on the
technical specificati	ons 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** 

Certification Engineer

**PV** Division

#### Certification



#### **Technical Report**

Client:

**Einnova Solarline Group** 





#### **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) Oggetto / Item# 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)

Commessa Order: 100301 Provenienza dell'oggetto: temorigin: campionato e fornito dal cliente Identificazione dell'oggetto in accettazione: Identification of item rec 2024/0596 del 26 febbraio 2024 2024/05/96 dated 26 February 202-Data dell'attività: Activity date: 14 marzo 2024 14 March 2024 Luogo dell'attività: Activity site: Ist ituto Giordano S.p.A. - Strada Erbosa Uno, 80 -47043 Gatteo (FC) - Italia Indice Pagina Descrizione dell'oggetto\* Riferimenti normativi Apparecchiature Modalità Risultati Contents Description of item<sup>4</sup> Narmative references Apparatus Method Results

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 Product: 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 specification The test results show that the presented product is in compliance

Technical Report No.: 704062448201-00

Date: 2024-04-18

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

Room 818, Building 1, No. 58, Yunjin Road, Jianye District, 210000

with the above listed test specifications. Test result:

## **Certification**



	DEKRA
electrolytes - Safety rec	TEST REPORT IEC 62619 teries containing alkaline or other non-acid quirements for secondary lithium cells and r use in industrial applications
Report Number:	6184481.50
Date of issue:	2024-03-12
Total number of pages:	28
Name of Testing Laboratory preparing the Report:	DEKRA Testing and Certification (Shanghai) Ltd.
Applicant's name:	Einnova Solarline Energy Corp., Limited (Nanjing)
Address:	Room 710-62, No. 116 Suo Street, Jianye District, Nanjing, Jiangsu Province, P.R. China
Test specification:	
Stan dard:	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	IEC62619B
Test Report Form(s) Originator:	UL Solutions (Demko)
Master TRF:	Dated 2023-02-24
Equipment and Components (IECEE	
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If this Test Report Form is used by nor CB Scheme procedure shall be remov	HECEE members, the IECEE/IEC logo and the reference to the ed.
This report is not valid as a CR Tost	Report unless signed by an approved IECEE Testing

Laboratory and appended to a CB Test Report unless signed by an NCB in accordance with IECEE 02.

General disclaimer:

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 Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

	Einnova Solarline Energy Corp., Limiled (Nanjing) Room 710-62, No. 116 Suo Street, Jianye District, Nanjing, Jiangsu Province, P.R China				
For the product:	Lithium-Ion Battery				
Trade name:	EINNOVA				
Type/Model:	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				
confidential file no.					
	lies that the examined types are in accordance with the standards designated under compatibility directive 2014/30/EU.				
submitted by the ma	s been carried out on one single specimen or several specimens of the product, anufacturer. The Attestation does not include an assessment of the manufacturer's nity of his production with the specimen tested by DEKRA is not the responsibility of				
The CE marking ma	y be affixed on the product if all relevant and effective EC directives are complied with.				
Amhem, 14 March 2	2024 Number: 6184483,01AOC				
DEKRA Testing and	I Certification (Shanghai) Ltd.				

DEKRA Testing and Certification (Shanghai) Ltd. 3F #250 Jianghangsan Road Shibei Hi-Tech Park, 200436 Jing'an District, Shanghai, China T +80.21 6057 2668 - F46.21 6056 7555 www.elerzaandd.ut.etaleb.com

THE R. P. **CNAS** 检验 By Sea INSPECTION **CNAS IB0078** 运输危险性鉴别报告书 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: SEKXM202403286020LH040001 Issued No: 生效日期: 2024.03.29 Effective Date: 委托单位: 南京沃利特新能源科技有限公司 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 Name of Goods:

#### 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





柞	材料安全数据表
Materia	I Safety Data Sheet 本报音本年度有效 有效期至2024年12月31日
样品名称:	锂离子电池组
Sample name:	Lithium-Ion Battery
样品型号: Sample model:	ESS-Wall-5K
委托单位: Applicant: 	南京沃利特新能源科技有限公司 EINNOVA SOLARLINE ENERGY CORP. LIMITED (NANJING)
Shenzhen Tiansu	中族茶 Approved by 段」こ存 天源计量检测限策和限公司 Calibration and Testing Co., Ltd.







Report No.: TSZ24030037-P02-R01

#### UN38.3 检测报告 UN38.3 Test Report

Page 1 / 17 Pages

样品名称:	锂高子电池组
Sample name:	Lithium-Ion Battery
	ESS-Wall-5K
- ۱۰ شد ما که	南京沃利特新能源科技有限公司
委托单位:	EINNOVA SOLARLINE ENERGY CORP.
Applicant:	LIMITED (NANJING)
深圳	F.满针量检测影份有限公司
Shenzhen Tiansu	Calibration and Testing Co., Ltd.
Address: No.2, Jinlong Avenue, Longgang Dis	id, Shenzhen, Guangdong, China

	1.1	1	7-P01-R01	Page 1 of
			Test Report	
Client	: EINNOV	EINNOVA SOLARLINE ENERGY CORP. LIMITED (NANJING)		
Address	: Room 71	0-62	2, No.116 Suo Street, Jianye District, Nanjing, Jiangsu l	Province, P.R.C
Sample Nar Model/P O			Lithium-Ion Battery ESS-Wall-5K	
behalf of t		Ŧ		
Model/P.O.	No.	:	ESS-Wall-5K	
Manufactur	er	:	Enerlution Power Technology Co., Ltd	
Received D	ate	4	Mar 06, 2024	
Test Period		:	Mar 06, 2024~Mar 15, 2024	
Test Reques	sted	:	EU Regulation (EC) No 1907/2006 (REACH)	
	1			5.2
Conclusion	1.8			
	ermine the 233 tted sample.	kine	ds of substances of very high concern (SVHC) in the	PASS

CHLIBRATION AND

# Projects

Part Three







## Look forward to cooperating with you!

## **THANK YOU!**

