

ENF Solar Assessed Supplier

Assessment Report Presented to:

Anhui Huasun Energy Co., Ltd.
安徽华晟新能源科技股份有限公司

Service Commissioned by:



Service Provided by:



June 18, 2024

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Expiry Date: 13/Jun./2026

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Introduction

This report has been commissioned by ENF Solar – the world’s most visited solar website. Inspections have been undertaken by TÜV Rheinland – a testing service provider who have been testing solar components since 1985. TÜV Rheinland is part of TÜV Rheinland Group, a technical services company established in 1872 and employing 17,000 staff around the world.

To make these reports, TÜV Rheinland sends inspectors directly to the factories to collect data, take pictures and check documents.

TÜV Rheinland’s Disclaimer:

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The objective of validating supplier information is to provide additional confidence to buyers so that they know the information has been verified by an independent third party.

The TÜV Rheinland “Supplier Capability Assessment” program is not designed to be a performance standard but rather an information validation program against an established criterion providing potential buyers with information on the establishments stated claims and capabilities.

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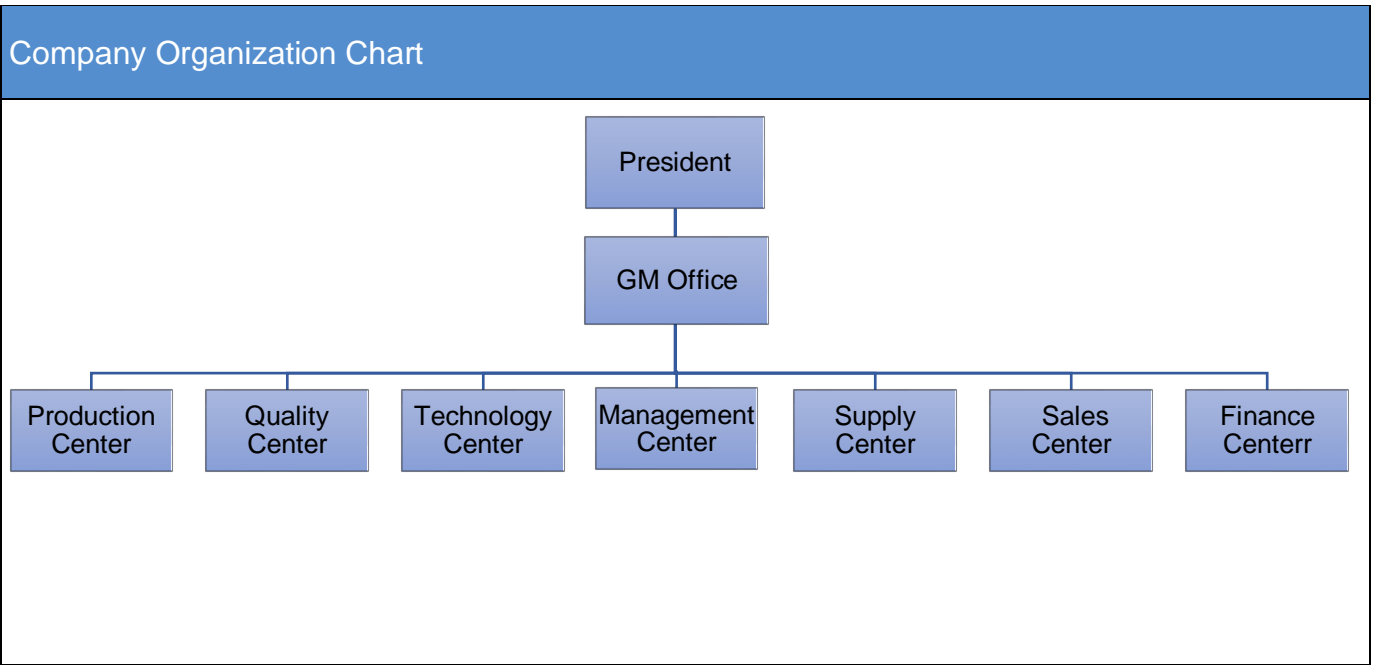
Company Overview

Identification	Details		
Company Name	Anhui Huasun Energy Co., Ltd.		
Facility address	No. 99, Qingliu Road, Economic and Technological Development Zone, Xuancheng City, Anhui Province, China		
	Contact Person :	Mr. Lizhong Wang	
	Tel:	0086-18326449936	
	Fax:	N/A	
	E-mail:	wanglizhong@huasunsolar.com	
URL/Web Address	https://www.huasunsolar.com		
Report Date	14/Jun./2024		
Expiry Date (24 months validity)	14/Jun./2024 -- 13/Jun./2026		
Name of Assessor	Acaile Xu		
Overall Turnover of Last Year	Confidential		
Total Building Size	120000 m ²		
Number of Buildings	8		
Office Size	8000 m ²		
Working Day	Mon. to Fri.	Working Hours	08:30am to 05:30pm

Legal Entity

Legal Entity			
Business License Number	91341800MA2W1EY93F		
Year Established	21/Jul./2020	Validity Period:	21/Jul./2020 -- Long Tern
Registered Address	No. 99, Qingliu Road, Economic and Technological Development Zone, Xuancheng City, Anhui Province, China		
Company Address	No. 99, Qingliu Road, Economic and Technological Development Zone, Xuancheng City, Anhui Province, China		
Registered Capital	RMB 160,409,711		
Corporate Representative	Mr. Xiaohua Xu		
Industry	Solar Energy Products		
Products /Service	Solar Panel		
Business Type	<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Trading Company	<input checked="" type="checkbox"/> Combined
Type of Ownership	<input checked="" type="checkbox"/> Private Owner	<input type="checkbox"/> Public Company	<input type="checkbox"/> Joint Venture
	<input type="checkbox"/> Stated Owned	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other

Human Resources



Department Name	Full Time Employee(s)	Part-Time Employee(s)	Total
President	1	0	1
GM Office	11	0	11
Production Center	280	0	280
Quality Center	111	0	111
Technology Center	158	0	158
Management Center	523	0	523
Supply Center	30	0	30
Sales Center	79	0	79
Finance Center	30	0	30
Totals	1223	0	1223

Export Business Capacity

Current Export Situation

There are 20 foreign trading employees in the company.

Working Experience	Headcount
Over 30 Years	0
21-30 Years	0
11-20 Years	7
6-10 Years	4
2-5 Years	9
Less than 2 years	0

Accepted Language	Listening & Speaking	Reading & Writing
English	Yes	Yes
Japanese	Yes	Yes
Spanish	Yes	Yes
Korean	Yes	Yes
N/A	N/A	N/A
N/A	N/A	N/A

Does the company have a valid export license?	<input checked="" type="checkbox"/> Yes Export License Registration No.: 04464723			<input type="checkbox"/> No
Trade Agents Employed Overseas	<input type="checkbox"/> Yes			<input checked="" type="checkbox"/> No
Nearest Port	Shanghai Port, Ningbo Port			
Accepted Payment Terms	<input checked="" type="checkbox"/> FOB	<input checked="" type="checkbox"/> CIF	<input checked="" type="checkbox"/> EXW	<input checked="" type="checkbox"/> CFR
Accepted Payment Types	<input checked="" type="checkbox"/> L/C	<input checked="" type="checkbox"/> T/T	<input type="checkbox"/> Credit Card	<input checked="" type="checkbox"/> Cash
	<input type="checkbox"/> West Union	<input type="checkbox"/> Money Gram	<input type="checkbox"/> Paypal	<input type="checkbox"/> Money booker
Average lead time from product order confirmation to production delivery (products exiting the company)	30 Days			

Market Distribution (Previous 12 Months)

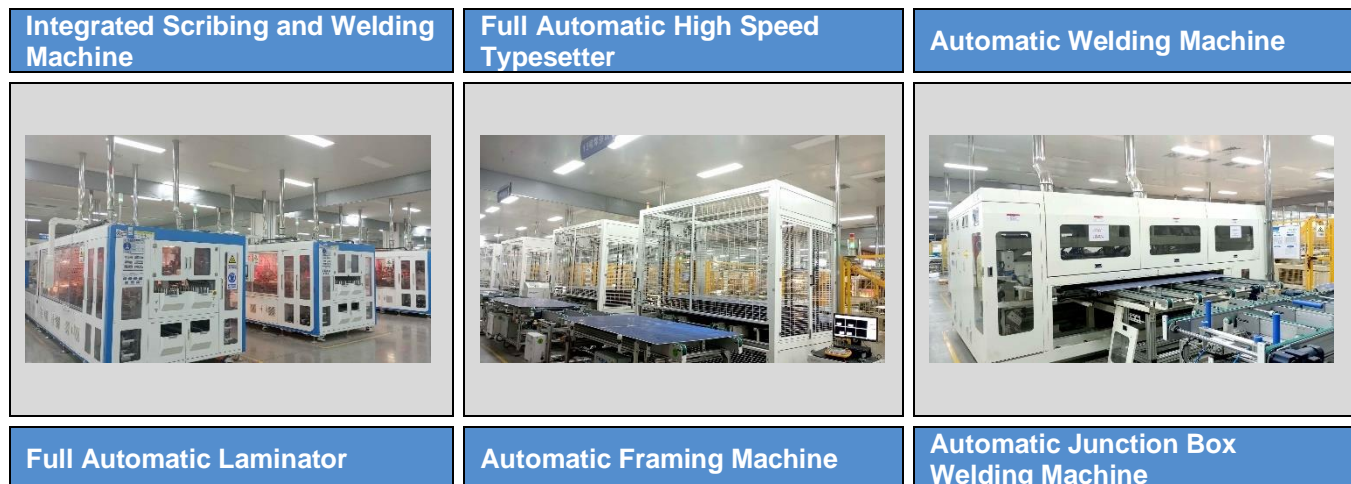
Market	Main Product(s)	Total Revenue (%)
North America	N/A	0
South America	N/A	0

Eastern Europe	Solar Panel	11
Southeast Asia	N/A	0
Africa	N/A	0
Oceania	N/A	0
Middle East	N/A	0
Eastern Asia	Solar Panel	4
Western Europe	Solar Panel	8
Central America	N/A	0
Northern Europe	N/A	0
Southern Europe	Solar Panel	4
South Asia	Solar Panel	1
Domestic Market	Solar Panel	72

Product Capabilities

Production Capacity		
Product Name	Production Line Capacity (Monthly)	Actual Units Produced (Previous Year)
Solar Panel	800 MW / Month	Confidential

Production Machinery			
Key Machine Name	Brand & Model No.	Quantity	Condition
Integrated Scribing and Welding Machine	Confidential	64	Acceptable
Full Automatic High Speed Typesetter	Confidential	64	Acceptable
Automatic Welding Machine	Confidential	12	Acceptable
Full Automatic Laminator	Confidential	36	Acceptable
Automatic Framing Machine	Confidential	12	Acceptable
Automatic Junction Box Welding Machine	Confidential	12	Acceptable





Key Testing Machinery

Machine Name	Brand & Model No.	Quantity	Condition
Universal Testing Machine	Confidential	1	Acceptable
EL Tester	Confidential	25	Acceptable
IV Tester	Confidential	12	Acceptable

Universal Testing Machine



EL Tester



IV Tester



Production Flow (Solar Panel)

Panel Splitting and String Welding



Glass Feeding



EVA Cutting and Laying



Full Automatic Typesetting



Reflow Soldering



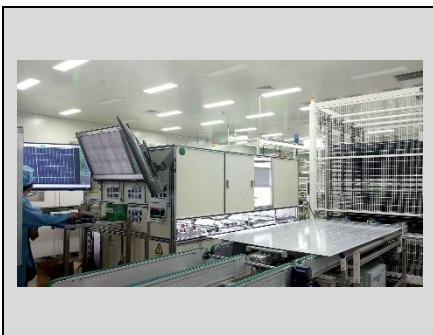
Automatic Taping



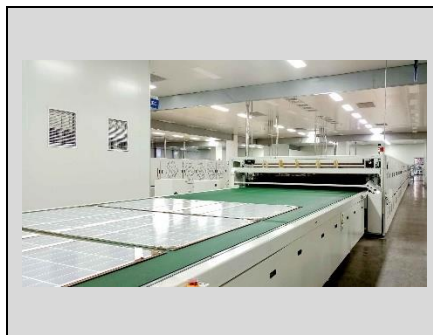
Rubber Sealing



EL Testing



Laminating



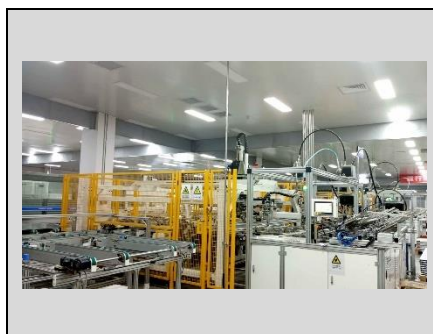
Edge Trimming












Appearance Inspection



Automatic Framing



Automatic Welding of Junction Box	Junction Box Glue Injection	Solar Panel Self-Curing
		
Grinding Angle	Surface Cleaning	Safety Test
		
Final EL Testing	Visual Inspection	Automatic Grading
		

R & D Capacity

Current Situation			
There are 157 R&D engineers in the company.			
Education Level	Headcount	Work Experience	Headcount
Doctorate	8	Over 30 Years	0
Post-Graduate	30	21-30 Years	0
Graduate	84	11-20 Years	38
Junior College	35	6-10 Years	31
Technical School	0	2-5 Years	88
High School	0	Less than 2 years	0

Brand Situation				
Registration/application No.	Brand Name	For Approval to Use Goods	Validity Date	Ref.
N/A	N/A	N/A	N/A	N/A

Patent Situation				
Patent No.	The Name of the Patent	The Patent Type	Available Date	Ref.
ZL 2022 2 1547160.4	Solder strips and solar cell modules	The patent for utility model	15/Nov./2022	Photo in Certification & Photos
ZL 2022 2 1707948.7	Adhesive film and black photovoltaic modules	The patent for utility model	20/Sep./2022	Photo in Certification & Photos
Does the company provide OEM/ODM service for others?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are there relevant design input/output, review, and verification documents available for the assessed company?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Based on inspection, are R&D employees equipped with adequate specialized equipment?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Do R&D employees use any specific software for designing new products?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Development Devices



Management Systems & Quality Control Management

Quality Management System Certification				
Certification	Certified By	Certificate No.	Business Scope	Expiry Date
ISO9001	TUV SUD	1210063190/01	Design, manufacturing and sales of photovoltaic heterojunction cells and modules	29/Jan./2024 -- 06/Dec./2024
ISO14001	TUV SUD	1210463190/01	Design, manufacturing and sales of photovoltaic heterojunction cells and modules	29/Jan./2024 -- 06/Dec./2024
ISO45001	TUV SUD	1211763190/01	Design, manufacturing and sales of photovoltaic heterojunction cells and modules	29/Jan./2024 -- 06/Dec./2024
SA8000	TUV SUD	5010016916REV.001	Design, manufacturing and sales of photovoltaic heterojunction cells and modules (The main production processes include: velvet making, chemical vacuum coating (CVD), physical vacuum coating (PVD), screen printing, testing & sorting, welding, layering, lamination, framing, curing, cleaning, EL testing, packaging)	21/Mar./2024 -- 15/Feb./2026

Product Certification

Certification	Certified By	Certificate No.	Product Name & Model No.	Expiry Date
TUV1	TUV SUD	Z2 110450 0005 Rev.01	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules; Mono-crystalline Silicon Hetero-junction Photovoltaic (PV) Modules	04/Jul./2022 -- 03/Jul./2027
TUV2	TUV SUD	Z2 110450 0007 Rev.01	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules; Mono-crystalline Silicon Hetero-junction Photovoltaic (PV) Modules	04/Jul./2022 -- 03/Jul./2027
TUV3	TUV SUD	Z2 110450 0003 Rev.00	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules; Mono-crystalline Silicon Hetero-junction Photovoltaic (PV) Modules	21/Dec./2021-- 19/Dec./2026
TUV4	TUV SUD	Z2 110450 0006 Rev.01	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules; Mono-crystalline Silicon Hetero-junction Photovoltaic (PV) Modules	04/Jul./2022 -- 03/Jul./2027
TUV5	TUV SUD	Z2 110450 0008 Rev.01	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules; Mono-crystalline Silicon Hetero-junction Photovoltaic (PV) Modules	04/Jul./2022 -- 03/Jul./2027
CE	TUV SUD	N8A1104500004 Rev.00	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules; Mono-crystalline Silicon Hetero-junction Photovoltaic (PV) Modules	23/Dec./2021-- 31/Dec./2049

Test Report			
Test Report	Certified By	Product Name & Model No.	Expiry Date
N/A	N/A	N/A	N/A

Quality Control Management			
Content	Observations / Comments		
Does the company set up any inspection standards for raw materials?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Has the company set up necessary quality inspection standards in the process of production?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Does the company have any measures to control the management of unqualified materials after sampling, to avoid mixing up or wasting?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are work instructions available at the location where the processes take place?	<input checked="" type="checkbox"/> Total line	<input type="checkbox"/> Parts of the line	<input type="checkbox"/> No
Is personal protective equipment (PPE) needed in the production line?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the management and usage of production materials as well as the production process executed by staff who are appropriately trained and qualified or by senior staff?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

Supplier Management			
Content	Observations / Comments		
Does the company have a supplier assessment procedure?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Does the company establish and implement a standard procedure for purchasing contract review and approval?	<input checked="" type="checkbox"/> Yes, with written standard procedures	<input type="checkbox"/> Yes, with written procedure but lack of consistent standard	<input type="checkbox"/> No

Does the company keep its supplier assessment reports?	<input checked="" type="checkbox"/> Yes, Keep for <u>3</u> years available			<input type="checkbox"/> No
Are the company's purchasing documents sufficient to ensure product safety control and their customers' requirements?	<input checked="" type="checkbox"/> Yes, the purchasing document includes all the information required	<input type="checkbox"/> Yes, however the purchasing document includes incomplete information		<input type="checkbox"/> No
Is there a procedure to conduct random product inspections after final packaging?	<input checked="" type="checkbox"/> Yes, with clear standard and written inspection records	<input type="checkbox"/> Yes, with inspection records but no procedures	<input type="checkbox"/> Yes, with procedures but no inspection records	<input type="checkbox"/> No, inspections are not necessary

After Sales Service				
Content	Observations / Comments			
Has the company set up any procedure for customer feedback, including complaints, clearly recorded and maintained?	<input checked="" type="checkbox"/> Yes, with a standard feedback form and records	<input type="checkbox"/> Yes, with a standard feedback form but no records	<input type="checkbox"/> Yes, with records but no standard feedback form	<input type="checkbox"/> No
Are there any clear procedures for handling customer complaints?	<input checked="" type="checkbox"/> Yes, with clear procedures and written records	<input type="checkbox"/> Yes, with clear procedures but no written records	<input type="checkbox"/> Yes, with written records but no clear procedures	<input type="checkbox"/> No
Does the company have the SOP (Standard Operation Procedure) for after-sales service? Does the company provide after-sales consulting services?	<input checked="" type="checkbox"/> Yes			<input type="checkbox"/> No
Does the company implement the provisions of the National Three Warrantees (warranty for repair/replacement /return) for their products?	<input checked="" type="checkbox"/> Yes			<input type="checkbox"/> No

Corporate Social Responsibility

Child Labour & Forced Labor		
Content	Observations / Comments	
Is it clarified that there's no child labor in the company?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the company have an explicit job management program, and take corresponding measures to check the age of the employees?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the staff clearly aware of the terms of labour contract, regulations of the company and the right of free employment?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the staff been forced to work overtime? Will they be fined or fired if they refuse to?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Health and Safety		
Content	Observations / Comments	
Has the company set up a safety responsibility system, and distributed to all levels of supervisor and provided them with corresponding training?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the company conduct regular inspection of the plant and equipment, to ensure the health and safety of the workshop at least in accordance with the law?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the company regularly provide necessary safety and health training, to make the staff understand that there might be occupational hazards in their work, and take appropriate protective measures when necessary? (For example, how to use personal protective equipment safely, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the company hold regular fire drills, including fire drills and evacuation drills? Do the staff clearly know how to raise an alarm, how to evacuate and how to use the fire extinguisher?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the company have the approval report issued by the local Fire Bureau?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the company provide sufficient first aid equipment? Are first-aid kits and trained first-aiders available in each workplace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No







Does the company provide clean lavatories, separating men's and ladies'?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Does the company provide clean drinking water to the staff? Is there unrestricted access to the drinking water?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Development / Expansion Plans

Company Development / Expansion Plans	
Company Development Action	Timeframe
The company is going to be a public company.	2 Years

Certification & Photos

Certification

Business License 	Certificate Photo -- Import and Export Enterprise Registration 
Certificate Photo -- Patent 1 	Certificate Photo -- Patent 2 
Certificate Photo – ISO9001 	Certificate Photo -- ISO14001 



Certificate Photo – ISO45001



Certificate Photo -- IEC 62941



Certificate Photo -- IEC TS 62994



Certificate Photo -- SA8000



Certificate Photo -- TUV1



Certificate Photo –TUV2



Certificate Photo – TUV3



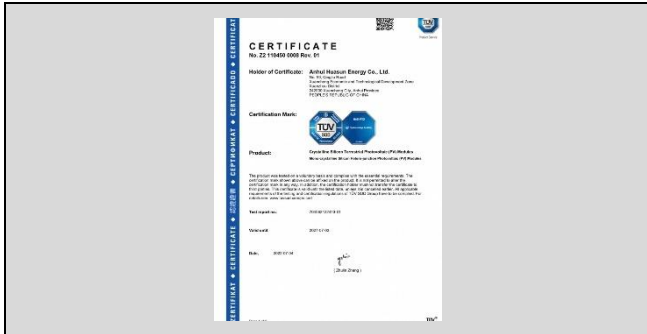
Certificate Photo – TUV4



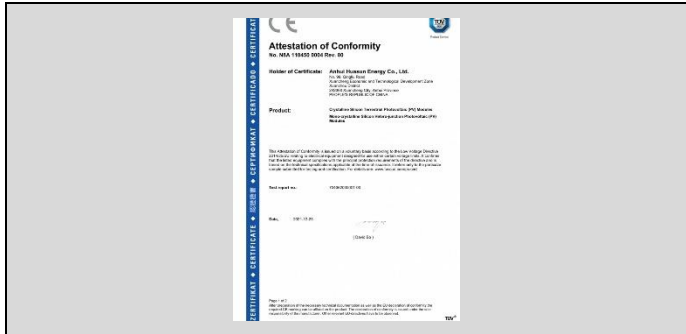
Certificate Photo – TUV5



Certificate Photo -- CE



Company Gate



Workshop Building



Workshop

Workshop



Warehouse

Warehouse



Warehouse



Warehouse



Product Photo



Product Photo



-- The END --