

## ENF Solar Assessed Supplier

Assessment Report Presented to:

Xiamen Hopergy Photovoltaic Technology Co., Ltd.

厦门华谱光电科技有限公司

Service Commissioned by:



Service Provided by:



September 4, 2023

Report Number: <<C159ENF20230801>>

Report Date: 23/Aug./2023

Expiry Date: 22/Aug./2025

Online Verification: <https://verified.chn.tuv.com>

# 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:

*This report reflects our findings for the particular company in concern on the date of our service only. This report does not discharge or release the factory/sellers/suppliers from their commercial, legal or contractual obligations with buyers in respect of products provided by the factory/sellers/suppliers. Any reader other than the party for which this report has been specifically issued is hereby informed that the General Conditions of Service of TÜV Rheinland contain liability limitation provisions.*

*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.*

## ENF's Disclaimer:

*The information provided in this report is free of charge and for informational purposes only and does not create a business or professional services relationship between you and ENF. No judgment or warranty is made with respect to the products and services offered by the company profiled here and ENF takes no responsibility for such products or services. Any use you make of the information provided in this report is at your own risk.*

*This report and its contents are provided "as is" and ENF makes no representation or warranty of any kind with respect to this report. ENF expressly disclaims all express and implied warranties including, but not limited to, the implied warranties of merchantability, fitness for a particular purpose, title, and non-infringement. In no event will ENF be liable to any party for any direct, indirect, incidental, special, exemplary, consequential, or other damages (including, but not limited to, lost profits, business interruption, loss of programs or data) without regard to the form of action and whether in contract, tort, negligence, strict liability, or otherwise, arising out of or in connection with this report, any content on or accessed through this report or any site service linked to, or any copying, displaying, or use thereof.*





## Audit Overview

Company Overview.....	4
Legal Entity .....	5
Human Resources .....	5
Export Business Capacity .....	6
Product Capabilities .....	9
R & D Capacity.....	13
Management Systems & Quality Control Management.....	15
Corporate Social Responsibility .....	18
Development / Expansion Plans .....	19
Certification & Photos.....	20

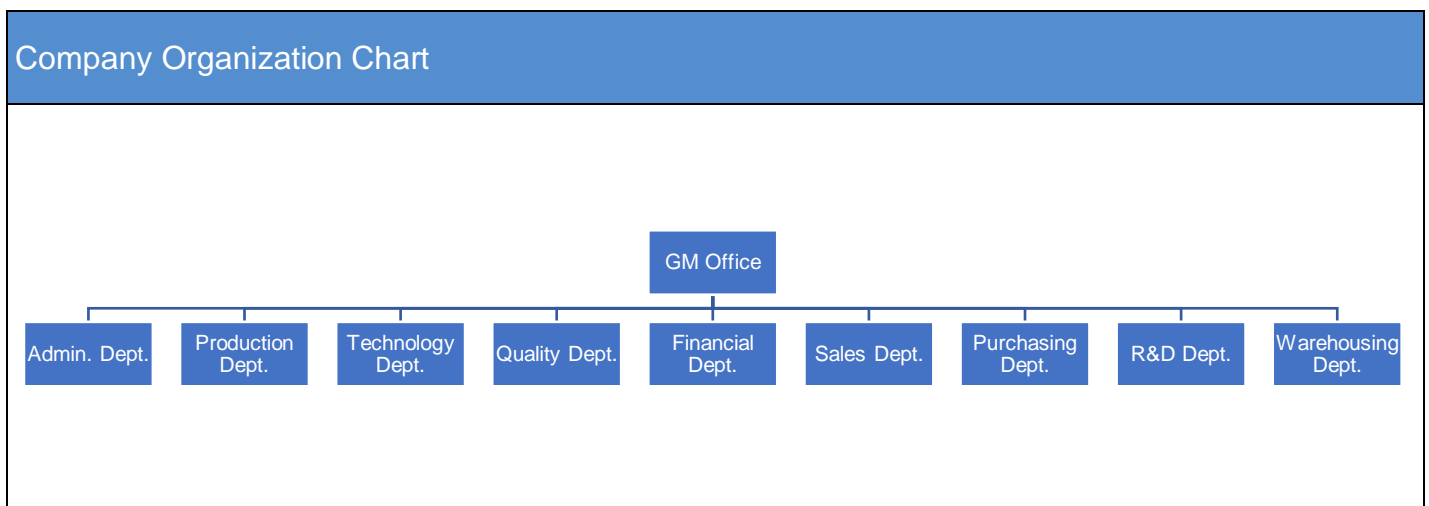
## Company Overview

Identification	Details		
Company Name	Xiamen Hopergy Photovoltaic Technology Co., Ltd.		
Facility address	No. 630, Tonghong Road, Tong'an District, Xiamen City, Fujian Province, China		
	Contact Person :	Ms. Siyu Chen	
	Tel:	0086-15880248186	
	Fax:	Nil	
	E-mail:	siyu@hopergy.com	
URL/Web Address	https://hopergy.com		
Report Date	23/Aug./2023		
Expiry Date (24 months validity)	23/Aug./2023 -- 22/Aug./2025		
Name of Assessor	Eric Huang		
Overall Turnover of Last Year	Confidential		
Total Building Size	6,966.73 Square Meters		
Number of Buildings	1		
Office Size	750 Square Meters		
Working Day	Monday to Friday	Working Hours	8:00 -- 17:00

## Legal Entity

Legal Entity			
Business License Number	91350206568418696X		
Year Established	17/Mar./2011	Validity Period:	17/Mar./2011 -- 16/Mar./2041
Registered Address	1F West side of Office Building, No. 630, Tonghong Road, Tong'an District, Xiamen City, Fujian Province, China		
Company Address	No. 630, Tonghong Road, Tong'an District, Xiamen City, Fujian Province, China		
Registered Capital	RMB 5,128,000		
Corporate Representative	Mr. Yang Hu		
Industry	Renewable Energy		
Products /Service	Mounting System		
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
GM Office	4	0	4
Admin. Dept.	20	0	20
Production Dept.	164	0	164
Technology Dept.	12	0	12
Quality Dept.	8	0	8
Financial Dept.	4	0	4
Sales Dept.	25	0	25
Purchasing Dept.	3	0	3
R&D Dept.	10	0	10
Warehousing Dept.	14	0	14
<b>Totals</b>	<b>264</b>	<b>0</b>	<b>264</b>

## Export Business Capacity

### Current Export Situation

There are 16 foreign trading employees in the company.

Working Experience	Headcount
Over 30 Years	0
21-30 Years	0
11-20 Years	0
6-10 Years	6
2-5 Years	8
Less than 2 years	2

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

Does the company have a valid export license?

☒ Yes  
Export License Registration No.:  
02894819

☐ No

Trade Agents Employed Overseas	<input checked="" type="checkbox"/> Yes			<input type="checkbox"/> No
Nearest Port	Xiamen 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 checked="" type="checkbox"/> Credit Card	<input type="checkbox"/> Cash
	<input checked="" type="checkbox"/> West Union	<input type="checkbox"/> Money Gram	<input checked="" type="checkbox"/> Paypal	<input type="checkbox"/> Money booker
Average lead time from product order confirmation to production delivery (products exiting the company)	15 Days			

Market Distribution (Previous 12 Months)		
Market	Main Product(s)	Total Revenue (%)
North America	Mounting System	20
South America	Mounting System	8
Eastern Europe	Mounting System	11
Southeast Asia	Mounting System	5
Africa	Mounting System	5
Oceania	Mounting System	15
Middle East	Mounting System	15
Eastern Asia	Mounting System	10
Western Europe	Mounting System	11
Central America	N/A	0
Northern Europe	N/A	0
Southern Europe	N/A	0
South Asia	N/A	0










Domestic Market	N/A	0
-----------------	-----	---



## Product Capabilities

Production Capacity		
Product Name	Production Line Capacity (Monthly)	Actual Units Produced (Previous Year)
Mounting System	12,000 Tons/Month	Confidential

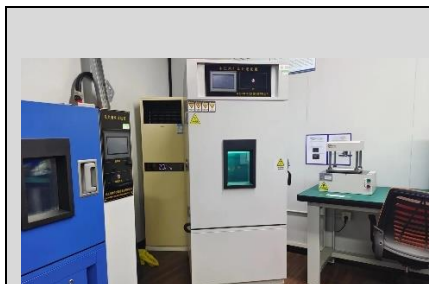
Production Machinery			
Key Machine Name	Brand & Model No.	Quantity	Condition
Laser Cutting Machine	Benteng & FIBER PLUS6025	1	Acceptable
Bending Machine	Deratech & TAM170	1	Acceptable
Aluminum Cutting Machine	Dengshi & DS-1-C500	3	Acceptable
Punching Machine	EDPS & APA45, APA60, APA110, APA160, APA200, APA400	40	Acceptable
Shot Blasting Machine	Minruicheng & JCK100	4	Acceptable
Automatic Welder	Panasonic & 7.5KW	6	Acceptable
Tube Shrinking Machine	Longhua & SG76, SG114, SG140	7	Acceptable
Automatic Tube Welder	Jinqiao & (76-114)-2500	24	Acceptable
Purlin Machine	BMS & C60-250	8	Acceptable

<b>Laser Cutting Machine</b>	<b>Bending Machine</b>	<b>Aluminum Cutting Machine</b>
		
<b>Punching Machine</b>	<b>Shot Blasting Machine</b>	<b>Automatic Welder</b>
		
<b>Tube Shrinking Machine</b>	<b>Automatic Tube Welder</b>	<b>Purlin Machine</b>
		

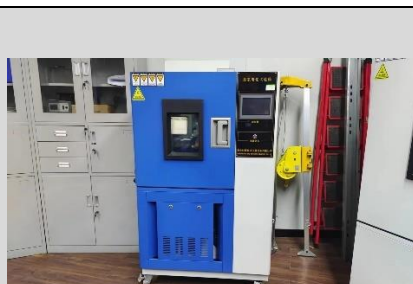
Key Testing Machinery			
Machine Name	Brand & Model No.	Quantity	Condition
Ultraviolet Aging Chamber	Kehui & ZN-C-II	1	Acceptable
Ozone Aging Chamber	Kehui & QL100	1	Acceptable
Hardmeter	Liboshi & HR-150A	1	Acceptable
Tensile Strength Tester	Haida & HD-B615A-S	1	Acceptable

Fast Image Measuring Instrument	Yinghaoda & OMQ432P	1	Acceptable
Direct Reading Spectrometer	BRUKER & Q2-ION	1	Acceptable

**Ultraviolet Aging Chamber**



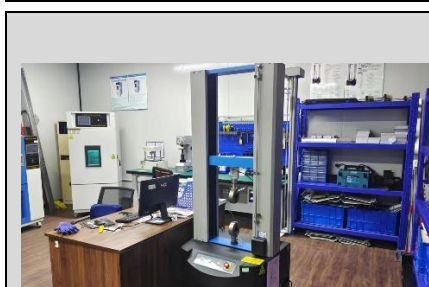
**Ozone Aging Chamber**



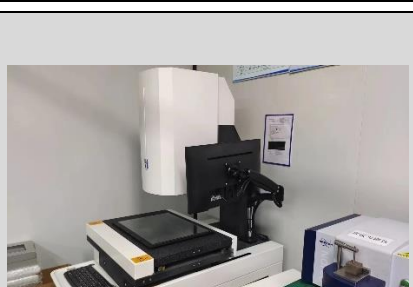
**Hardmeter**



**Tensile Strength Tester**









**Fast Image Measuring Instrument**



**Direct Reading Spectrometer**



Production Flow

Raw Materials	Cutting	Punching
		
Drilling	Assembling	Packing
		



## R & D Capacity

### Current Situation

There are 10 R&D engineers in the company.

Education Level	Headcount
Doctorate	0
Post-Graduate	0
Graduate	2
Junior College	8
Technical School	0
High School	0

Work Experience	Headcount
Over 30 Years	0
21-30 Years	0
11-20 Years	1
6-10 Years	1
2-5 Years	8
Less than 2 years	0

### Brand Situation

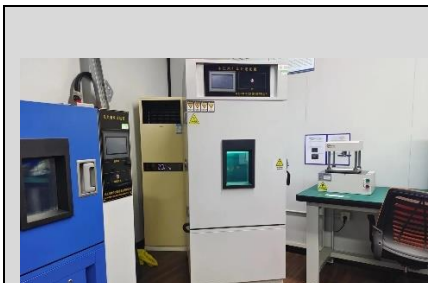
Registration/application No.	Brand Name	For Approval to Use Goods	Validity Date	Ref.
47885042	Refer to the photo	Class 6	14/Sep./2021 -- 13/Sep./2031	Refer to the photo
37030154	Refer to the photo	Class 6	07/Feb./2022 -- 06/Feb./2032	Refer to the photo

### Patent Situation

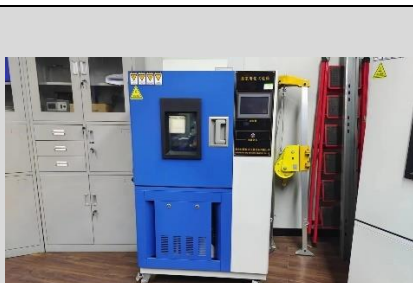
Patent No.	The Name of the Patent	The Patent Type	Available Date	Ref.
ZL 2019 1 0720275.5	Roof photovoltaic panel support device	The Invention Patent	11/Feb./2022	Refer to the photo
ZL 2019 1 0708677.3	Roof photovoltaic panel bracket	The Invention Patent	13/Jul./2021	Refer to the photo
ZL 2019 1 0454668.6	Solar cell panel fastening device	The Invention Patent	11/Sep./2020	Refer to the photo
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

Ultraviolet Aging Chamber



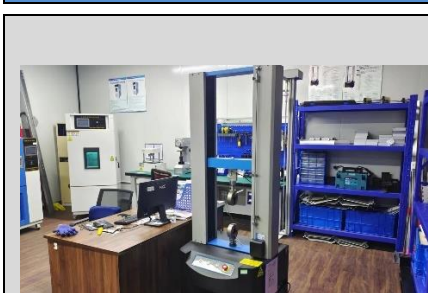
Ozone Aging Chamber



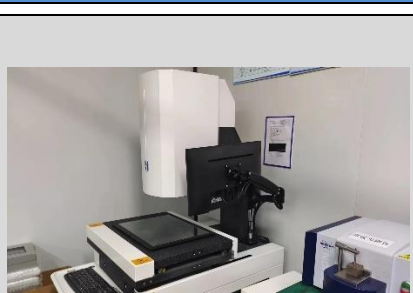
Hardmeter



Tensile Strength Tester



Fast Image Measuring Instrument



## Management Systems & Quality Control Management

### Quality Management System Certification

Certification	Certified By	Certificate No.	Business Scope	Expiry Date
ISO 9001:2015	Beijing Zhongrunxing Certification Co., Ltd.	07622Q1233R2M	Design, production and sales of solar photovoltaic power generation system (metal stents and accessories)	10/Jun./2022 -- 22/Jun./2025

### Product Certification

Certification	Certified By	Certificate No.	Product Name & Model No.	Expiry Date
Certificate of Compliance	TUV SUD	Z2 097384 0008 Rev.00	PV Mounting System	16/Nov./2022 -- 15/Nov./2027
Certificate of Compliance	NJN	1888-CPR-049-CN	Steel Structure	02/Oct./2022 -- 02/Oct./2025
Certificate of Compliance	NJN	1888-CPR-050-CN	Aluminium Structure	02/Oct./2022 -- 02/Oct./2025

### Test Report

Test Report	Certified By	Product Name & Model No.	Expiry Date
Test Report	SGS	Steel Plate	22/Aug./2023

### 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 type="checkbox"/> Yes, with written standard procedures	<input checked="" 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 _1_ year 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 type="checkbox"/> Yes			<input checked="" 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 (No regular fire drill was conducted by the factory)
Does the company have the approval report issued by the local Fire Bureau?	<input type="checkbox"/> Yes	<input checked="" 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 (No qualified first aider available in workshop)

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
Keep annual growth rate of 30%	Long Term

## Certification & Photos

### Certification

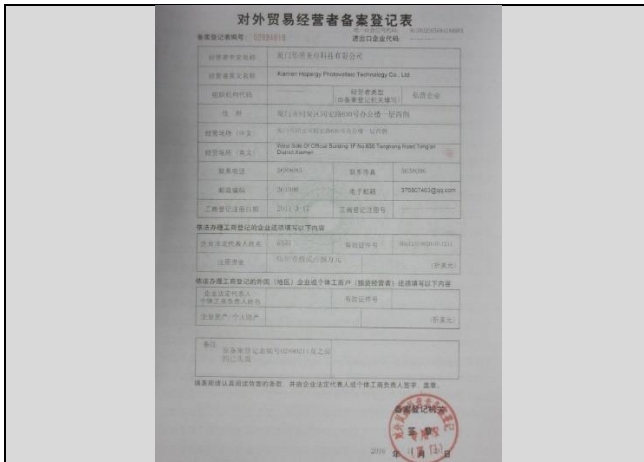
#### Certificate Photo -- Business License



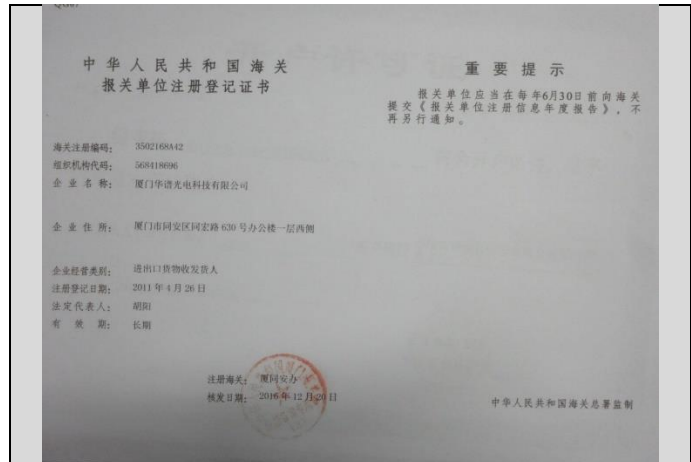
#### Certificate Photo -- Permit for Opening Bank Account



#### Certificate Photo -- Import and Export Enterprise Registration



#### Certificate Photo -- Custom Clearance Registration Form



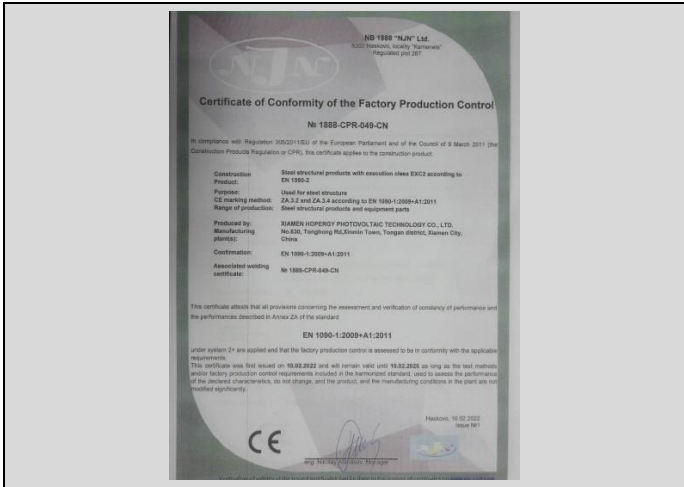
**Certificate Photo -- ISO9001:2015**



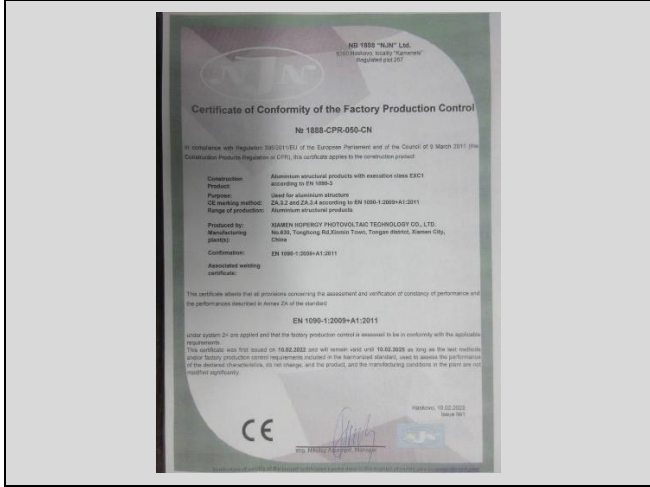
Certificate Photo -- Certificate of Compliance 1



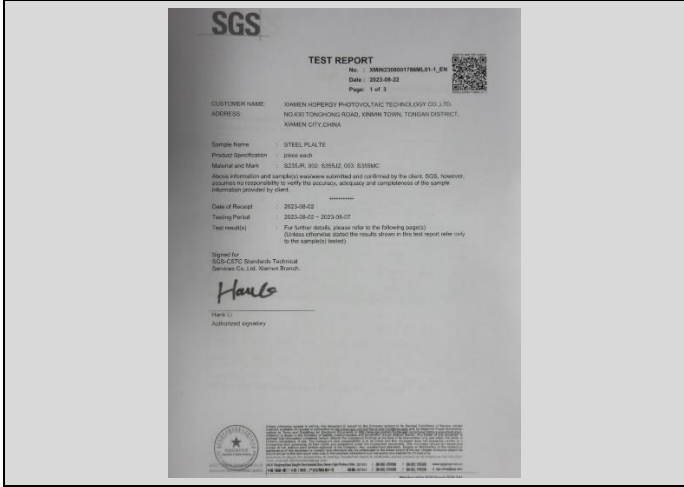
Certificate Photo -- Certificate of Compliance 2



Certificate Photo -- Certificate of Compliance 3



Certificate Photo -- Test Report





Company Gate	Office
	
Workshop	Workshop
	
Workshop	Warehouse
	

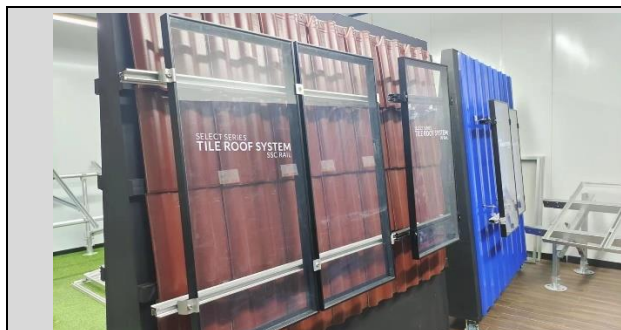
Product Photo



Product Photo



Product Photo



Product Photo



Product Photo



Product Photo



-- The END --