

ENF Solar Assessed Supplier

Assessment Report Presented to:

Anhui JF Solar Technology Co., Ltd.

安徽晶飞科技有限公司

Service Commissioned by:



Service Provided by:



May 27, 2022

Report Number: <<C159ENF20220301>>

Report Date: 21/May/2022

Expiry Date: 20/May/2024

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.....	14
Management Systems & Quality Control Management	16
Corporate Social Responsibility	20
Development / Expansion Plans	21
Certification & Photos	22

Company Overview

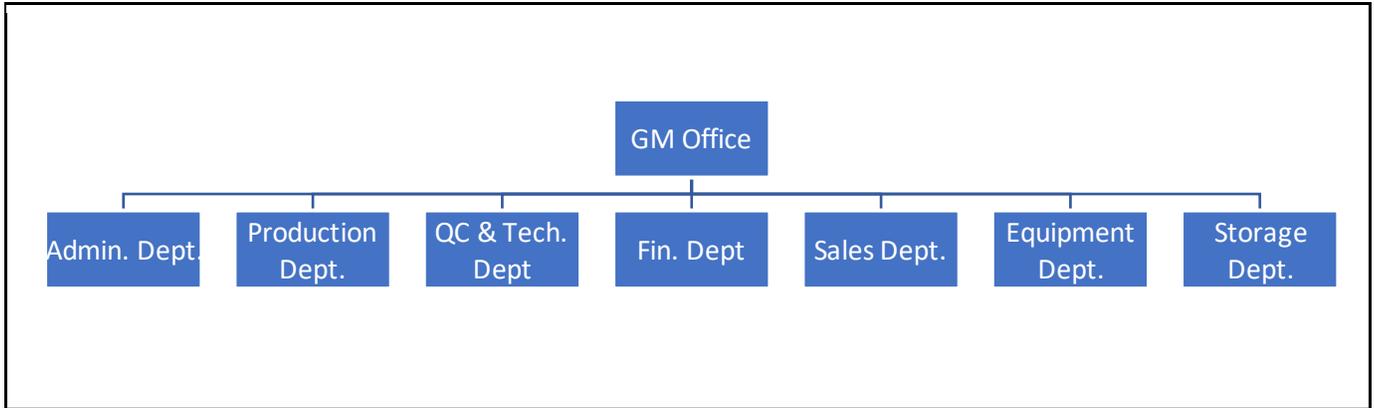
Identification	Details		
Company Name	Anhui JF Solar Technology Co., Ltd.		
Facility address	No. 9, Taiyanghe West Road, He County Economic Development Zone, Ma'anshan City, Anhui Province, China		
	Contact Person:	Mr. Mingming Xu	
	Tel:	0086-0555-5510000	
	Fax:	N/A	
	E-mail:	xumm@jf-solartech.com	
URL/Web Address	https://www.jf-solartech.com/		
Report Date	21/May/2022		
Expiry Date (24 months validity)	20/May/2024		
Name of Assessor	Haifeng Jiang		
Overall Turnover of Last Year	RMB 232755318.98		
Total Building Size	22,068 Square Meters		
Number of Buildings	5		
Office Size	4014 Square Meters		
Working Day	Monday to Saturday	Working Hours	08:00 --12:00
			13:00 --17:00

Legal Entity

Legal Entity			
Business License Number	91340523MA2W6T1670		
Year Established	09/Sep./2020	Validity Period:	09/Sep./2020 -- 31/Dec./2049
Registered Address	No. 9, Taiyanghe West Road, He County Economic Development Zone, Ma'anshan City, Anhui Province		
Company Address	No. 9, Taiyanghe West Road, He County Economic Development Zone, Ma'anshan City, Anhui Province		
Registered Capital	RMB 150,000,000		
Corporate Representative	Mr. Chao Diao		
Industry	Solar Energy Product		
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

Company Organization Chart



Department Name	Full Time Employee(s)	Part-Time Employee(s)	Total
GM Office	4	0	4
Admin. Dept.	16	0	16
Production Dept.	192	0	192
QC & Tech. Dept.	35	0	35
Fin. Dept.	5	0	5
Sales Dept.	11	0	11
Equipment Dept.	15	0	15
Storage Dept.	12	0	12
Totals	290		290

Export Business Capacity

Current Export Situation

There are 7 foreign trading employees in the company.

Working Experience	Headcount
Over 30 Years	0
21-30 Years	0
11-20 Years	1
6-10 Years	1
2-5 Years	2
Less than 2 years	3

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

Does the company have a valid export license?	<input checked="" type="checkbox"/> Yes			<input type="checkbox"/> No
	Export License Registration No.: 02866554			
Trade Agents Employed Overseas	<input type="checkbox"/> Yes			<input checked="" type="checkbox"/> No
Nearest Port	Shanghai 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 checked="" 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)	7-15 Days			

Market Distribution (Previous 12 Months)		
Market	Main Product(s)	Total Revenue (%)

North America	Solar Panel	5
South America	Solar Panel	5
Eastern Europe	Solar Panel	15
Southeast Asia	Solar Panel	10
Africa	Solar Panel	2
Oceania	Solar Panel	5
Middle East	Solar Panel	5
Eastern Asia	Solar Panel	5
Western Europe	Solar Panel	20
Central America	Solar Panel	1
Northern Europe	Solar Panel	5
Southern Europe	Solar Panel	10
South Asia	Solar Panel	2
Domestic Market	Solar Panel	10

Product Capabilities

Production Capacity		
Product Name	Production Line Capacity (Monthly)	Actual Units Produced (Previous Year)
Solar Panel	100 MW / Month	1200 MW / Year

Production Machinery			
Key Machine Name	Brand & Model No.	Quantity	Condition
PV Cell Laser Cutting Machine	SSC-8000B	2	Acceptable
Material Loading Machine	ER120-2400-PL	4	Acceptable
Series Welding Machine	MS40K	6	Acceptable
Series Welding Machine	MS100B	3	Acceptable
Auto Laying Machine	ER20/10-2000-HI	9	Acceptable
Fold Welding Machine	DH180-H	3	Acceptable
Automatic Tape Sticking Machine	AST2918-A01-ZY01	2	Acceptable
Cutting Machine	LY-CPL20	6	Acceptable
Double Glass Laminating Machine	ER120-2400-PL	2	Acceptable
Automatic Edge Banding Machine	No Information	2	Acceptable
Laminating Machine	BSL2787	4	Acceptable
Auto Trimming Machine	No Information	2	Acceptable
Flip Check Machine	Napin	2	Acceptable

Frame Assembling Machine	ZKJ2000	2	Acceptable
Auto Welding Machine	No Information	1	Acceptable
Glue Filling Machine	SPZ-AB10S-JH	2	Acceptable
Solidify Line	No Information	2	Acceptable

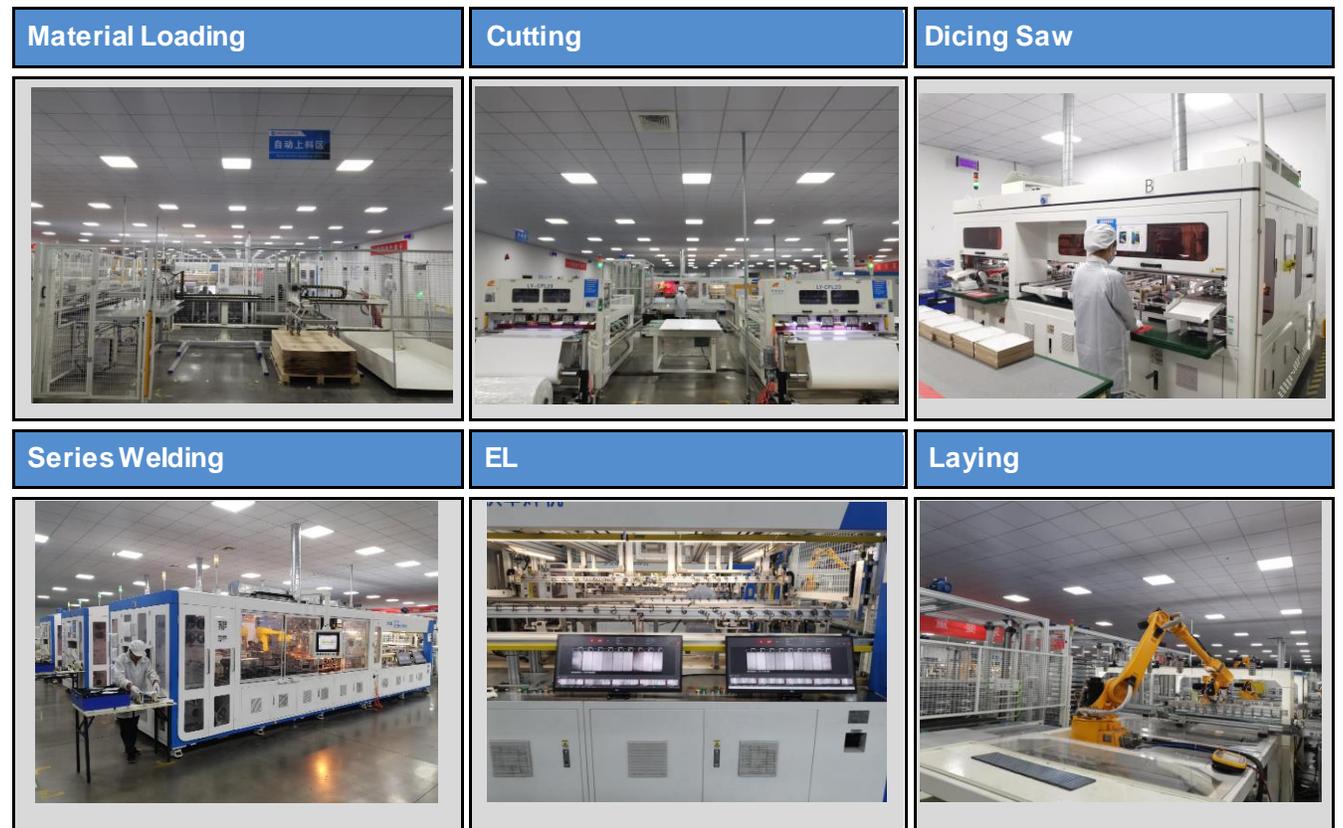


Automatic Edge Banding Machine	Laminating Machine	Auto Trimming Machine
		
Flip Check Machine	Frame Assembling Machine	Auto Welding Machine
		
Glue Filling Machine	Solidify Line	N/A
		N/A

Key Testing Machinery			
Machine Name	Brand & Model No.	Quantity	Condition
EL Testing Machine	MPS-EBV-AS	4	Acceptable
IV Testing Machine	GIV-20ATS	2	Acceptable
Voltage Insulation Tester	Napin	4	Acceptable



Production Flow (Solar Panel)







R & D Capacity

Current Situation			
There are 20 R&D engineers in the company.			
Education Level	Headcount	Work Experience	Headcount
Doctorate	0	Over 30 Years	0
Post-Graduate	1	21-30 Years	0
Graduate	15	11-20 Years	6
Junior College	4	6-10 Years	8
Technical School	0	2-5 Years	5
High School	0	Less than 2 years	1

Brand Situation				
Registration/application No.	Brand Name	For Approval to Use Goods	Validity Date	Ref.
54886469	Refer to the photo	Semiconductor; Optical fiber (optical waveguide); Photovoltaic cells; Chip for integrated circuit; Solar cell; Light regulator (electric)	28/Dec./2021 - 27/Dec./2031	Photo in Section 10(Trademark Photo)

Patent Situation				
Patent No.	The Name of the Patent	The Patent Type	Available Date	Ref.
ZL 2020 1 1410674.0	One Solar Panel Convenient For Installation	Invention Patent	8/Apr./2022 - 7/Apr./2032	Photo in Section 10(Patent Photo)
ZL 2020 1 1421967.9	One Dispensing Equipment For Semiconductor Processing And Its Working Method	Invention Patent	8/Jul./2021 - 7/Jul./2031	Photo in Section 10(Patent Photo)
ZL 2020 1 1406453.6	The Invention Relates To A Heat Dissipation Device For A Motor And A Method For Using It	Invention Patent	28/Dec./2021 - 27/Dec./2031	Photo in Section 10(Patent 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

N/A	N/A	N/A
-----	-----	-----

N/A	N/A	N/A
-----	-----	-----

Management Systems & Quality Control Management

Quality Management System Certification				
Certification	Certified By	Certificate No.	Business Scope	Expiry Date
ISO9001:2015	TUV NORD	A0101202100293	Production and sales of solar photovoltaic modules	22/Jan./2021 -- 21/Jan./2024
ISO14001:2015	TUV NORD	A0201202100125	Production and sales of solar photovoltaic modules, and related environmental management activities	22/Jan./2021 -- 21/Jan./2024
ISO45001:2018	TUV NORD	A0301202100106	Production and sales of solar photovoltaic modules, and related occupational health and safety management activities	22/Jan./2021 -- 21/Jan./2024

Product Certification				
Certification	Certified By	Certificate No.	Product Name & Model No.	Expiry Date
CQC	CQC	CQC2102430151	Crystalline silicon photovoltaic module	18/Mar./2022 -- 17/Dec./2049

PCCC	PCCC	22P11709001ROM	<p>JF-182SHM3C (395-415W)</p> <p>JF-182SHM6C (485-495W)</p> <p>JF-182SHM7C (530-550W)</p> <p>JF-182SHM8C (575-595W)</p> <p>P-type high efficiency single crystal multi main grid half photovoltaic module (182mm)</p>	20/Jan./2022 – 19/Jan./2027
PCCC	PCCC	22P11709004ROM	<p>JF-210SHM2E (480-500W)</p> <p>JF-210SHM4E (530-550W)</p> <p>JF-210SHM5E (590-615W)</p> <p>JF-210SHM6E (650-680W)</p> <p>P-type high efficiency single crystal multi main grid half photovoltaic module (210mm)</p>	20/Jan./2022 – 19/Jan./2027
CE	TUV NORD	040R1M1&CE018	<p>IEC / EN 61215-1:2016;</p> <p>IEC / EN 61215-1-1:2016;</p> <p>IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018;</p> <p>IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018;</p> <p>IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.</p>	21/Feb./2022 -- 5/Apr./2026

Test Report			
Test Report	Certified By	Product Name & Model No.	Expiry Date
Test Report	TUV NORD	Photovoltaic Module Qualification	21/Feb./2022

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>2</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 (No regular fire drill was conducted by the factory)
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 (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
It is estimated that the sales will be completed in 2022. The sales volume is about 1 billion, the annual sales volume in 2023 is 2 billion, and the annual sales volume in 2024 is 3-3.5 billion.	3 Years

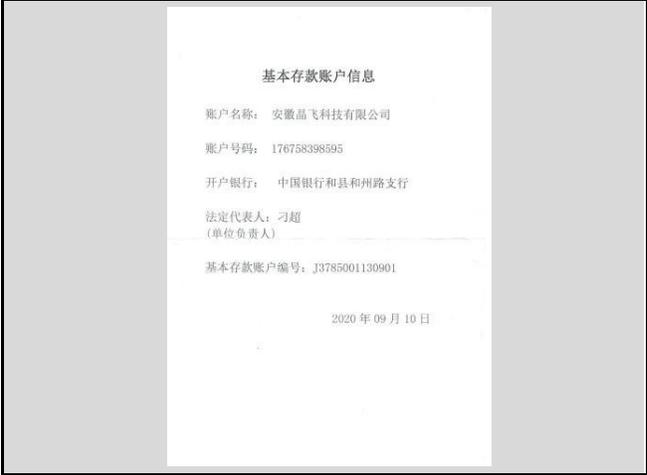
Certification & Photos

Certification

Business License



Permit for Opening Bank Account



Export License



Trademark



Certificate Photo -- ISO9001:2015



Certificate Photo--ISO14001:2015



Certificate Photo -- ISO45001:2018



Certificate Photo -- Patent 1



Certificate Photo -- Patent 2



Certificate Photo -- Patent 3



Certificate Photo – CE Certificate



Certificate Photo – CQC Certificate



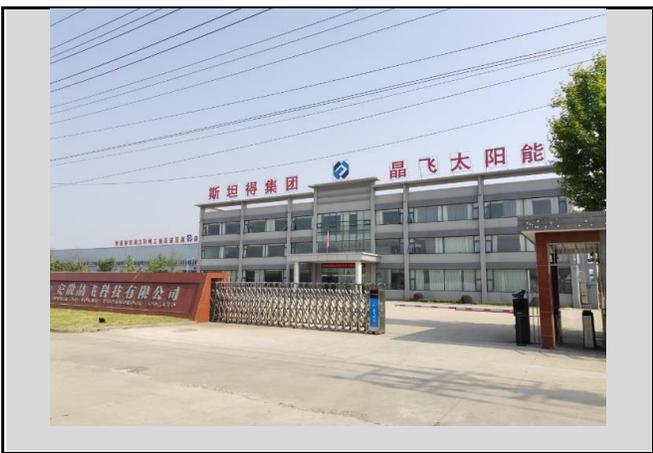
Certificate Photo – PCCC Certificate



Certificate Photo – PCCC Certificate



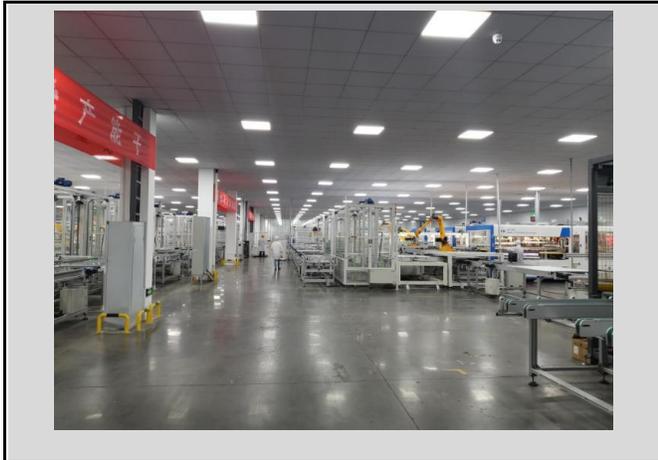
Company Gate



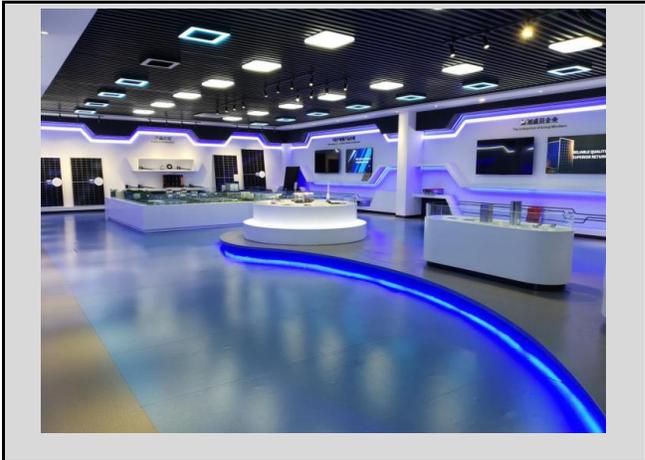
Office



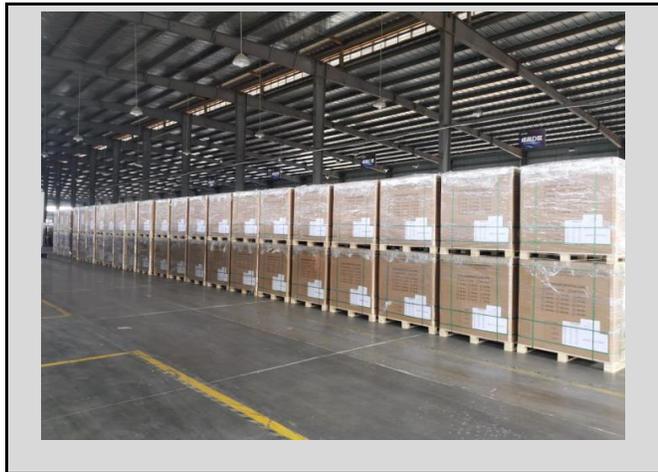
Workshop



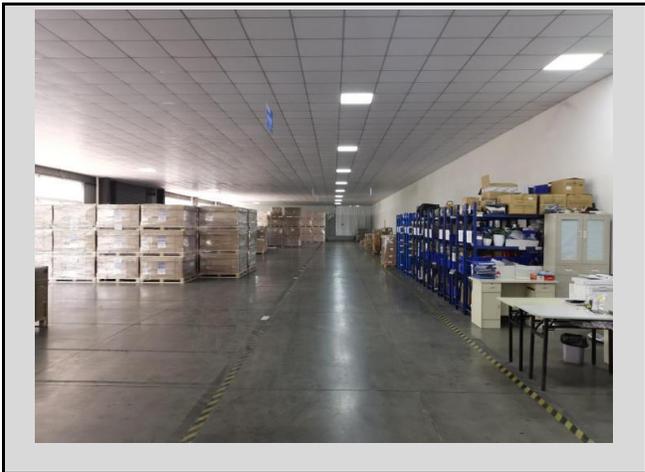
Show Room



Warehouse



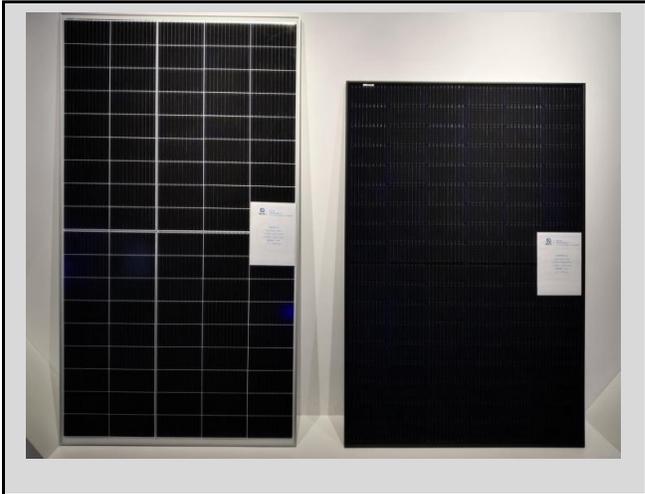
Warehouse



Product Photo



Product Photo



ASSESSMENT REPORT PRESENTED TO << Anhui JF Solar Technology Co., Ltd. >>

-- The END --