



The Value Proposition of HJT in Today's Solar Technology Landscape



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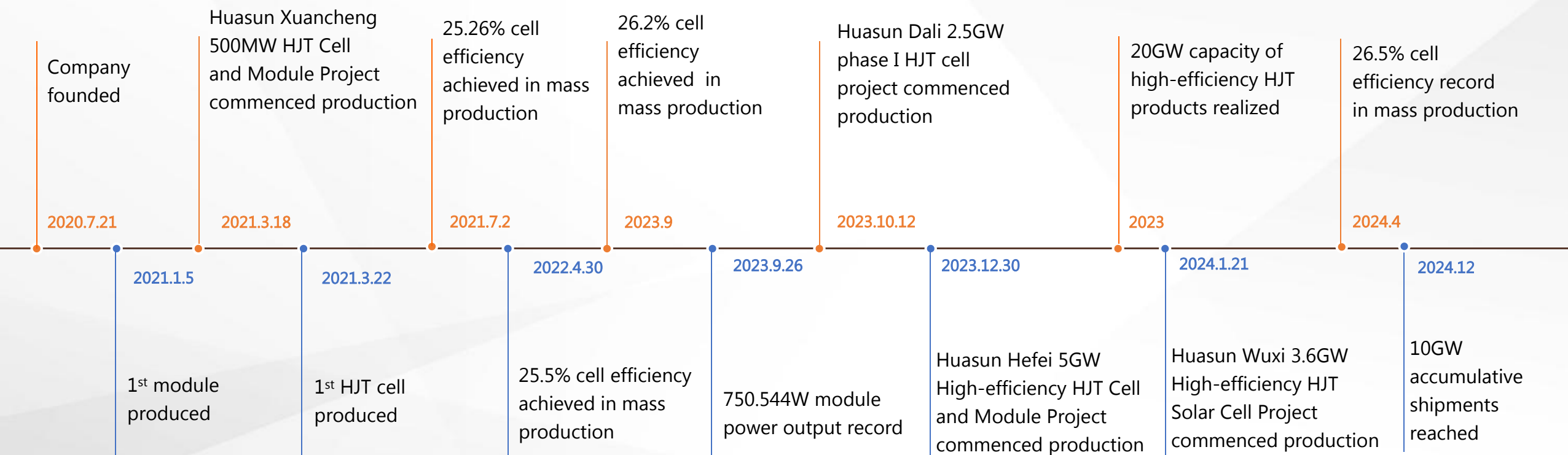
PART

1

Company Profile



About Huasun



About Huasun



No.1

HJT
Ingot/Wafer/Cell/Module
Manufacturer



5,000+

Employees
Worldwide



11 GW+

Shipments



60+

Countries & Regions

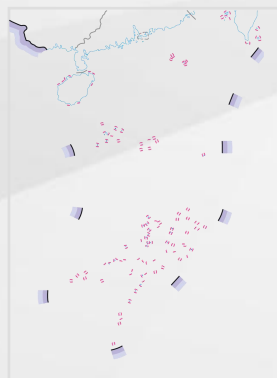
Huasun is a technological innovation enterprise specializing in the development and application of ultra-high efficient n-type silicon based heterojunction (HJT) solar technology as well as the product large-scale manufacturing of ingots, wafers, cells and modules.



About Huasun

20GW

Annual Capacity of
HJT Products



Sales Center

Nanjing·Jiangsu



Headquarters

Xuancheng·Anhui



Manufacturing Facilities

Xuancheng·Anhui

Hefei·Anhui

Wuxi·Jiangsu

Dali·Yunnan

Yinchuan·Ningxia



Headquarters



Sales Center



Manufacturing Facilities

R&D Capability



Approx. **548** million (CNY)

Cumulative R&D investment in HJT as of the end of 2024



Approx. **5%**

R&D investment as a share of revenue



15Y+

Team members' average experience in top solar companies



470+

Talents in HJT field



200+

PhDs and MSs



8

4 industrial scientists
4 national-level leading talents

Industry Recognition



Tier 1 PV Module Manufacturer

Youngest company in the BNEF Tier1 PV Module Maker List.
First on the list specializing in HJT solar technology and mass production.



"Global Unicorn"

Listed in the 2023 Hurun Research Institute and Forbes Global Unicorn Rankings.



PVEL "Top Performer"

Huasun Himalaya G12 Series HJT Module passed PV Evolution Labs' Product Qualification Program and was recognized as "Top Performer".



Badge of Excellence Top Solar Modules

Huasun consistently secured a place in Top 10 in TaiyangNews's Top Solar Modules List throughout 2023, solidifying its position as the leading player in HJT since September 2023.



pv magazine Award

Huasun Himalaya Series G12-132 Module awarded top solar module of the year by pv magazine.

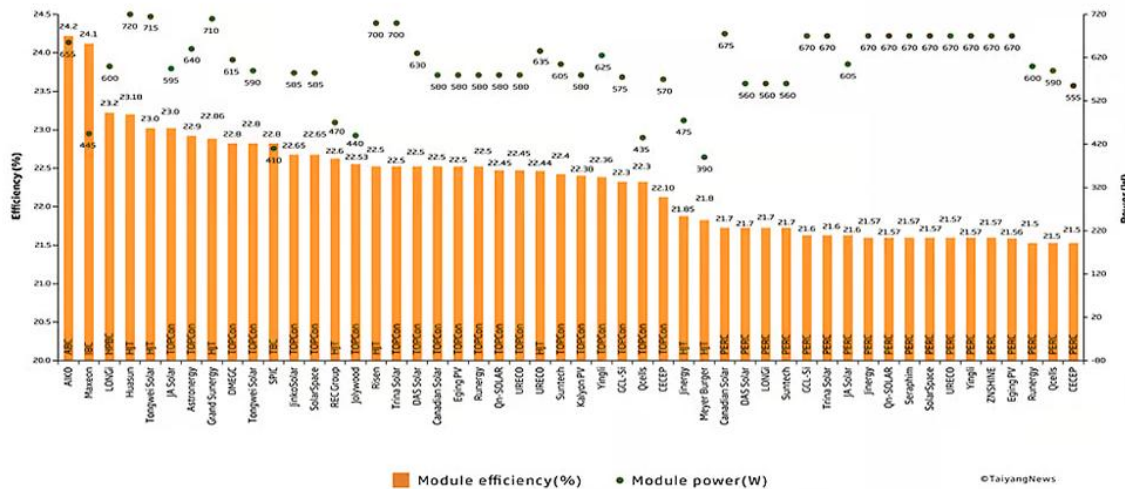
Industry Recognition

Huasun Himalaya G12-132 715W HJT module has consistently ranked as the top HJT product in TaiyangNews Top Modules since September 2023 with a conversion efficiency of 23.02%. It stands out as **the leading performer in both power and efficiency among all conventional non-BC bifacial modules.**

With a stellar performance throughout the year, Huasun was awarded the **2023 Badge of Excellence** for its outstanding achievements.

The record was updated in August 2024, with the power and efficiency now reaching 720W and 23.18%, maintaining its leadership.

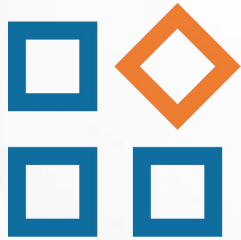
TaiyangNews Top Modules Highest Efficient Commercial Solar Modules 02-2025



TAIYANGNEWS ALL ABOUT SOLAR POWER TaiyangNews Top Modules: Highest Efficient Commercial Solar Modules 02-2025										
Rank	Company	Series	Model	Wafer type	Cell Size	Cells No.	Cell Tech	Module Technology	Power (W)	Efficiency (%)
1	Aiko	Comet 2U	AIKO-G655-MCH72Mw	n-type	182	144	ABC	Half-cell, Back Contact	655	24.2
2	Maxeon	Maxeon 7	SPR-MAX7-445-PT	n-type	125	112	IBC	Back Contact, Full-cell	445	24.1
3	LONGi	Hi-MO X6	LR5-72HTH-590-600M	p-type	182	144	HPBC	Half-cell, Back Contact	600	23.2
4	Huasun	Himalaya	HS-210-B132D5720W	n-type	210	132	HJT	Bifacial, Half-cell, MBB	720	23.18
5	TW SOLAR	-	TWMHF-66HD700-715W	n-type	210	132	HJT	Bifacial, Half-cell, MBB	715	23.0
5	JASOLAR	DeepBlue 4.0 Pro	JAM72D40 595/MB	n-type	182	144	TOPCon	Bifacial, Half-cell, MBB	595	23.0
7	ASTROENERGY	Astro N5	CHSM78N(DG)/F-BH625-640W	n-type	182	156	TOPCon	Bifacial, Half-cell, MBB	640	22.9
8	Grand Sunergy	-	GSM-MH3/132-BHDG710	n-type	210	132	HJT	Bifacial, Half-cell, MBB	710	22.86
9	DMEGC	Infinity RT	DM615G12RT-B66HSW	n-type	210	132	TOPCon	Bifacial, Half-cell, MBB	615	22.8
9	TW SOLAR	-	TWMND-72HS585-590W	n-type	182	144	TOPCon	Half-cell, MBB	590	22.8
9	SPIC	ANDROMEDA 3.0	SPICNG(LDF)-60/BIH410W	n-type	166	120	TBC	Bifacial, Back Contact, Half-cell, MBB	410	22.8
12	Jinko	Tiger Neo	JKM585N-72HL4-BDV	n-type	-	144	TOPCon	Bifacial, Half-cell, MBB	585	22.65
12	SolarSpaco	Lumina II	SS8-72HD-585N	n-type	182	144	TOPCon	Bifacial, Half-cell, MBB	585	22.65
14	REC Group	Alpha@Pure-RX	REC470AA Pure-RX	n-type	210	88	HJT	Bifacial, half-cell, MBB	470	22.6
15	中聚能源	Niwa Pro	JW-HD108N415-440W	n-type	182	108	TOPCon	Bifacial, Half-cell, MBB	440	22.53
16	risen	Hyper-ion	RSM132-8-700BHGD	n-type	210	132	HJT	Bifacial, Half-cell, MBB	700	22.5
16	TrinaSolar	Vertex N	TSM-NEG21C20	n-type	210	132	TOPCon	Bifacial, Half-cell, MBB	700	22.5
16	DASOLAR	-	DAS-DH156NA-620-630W	n-type	182	156	TOPCon	Bifacial, Half-cell, MBB	630	22.5
16	Canadian Solar	TOPHiKu6	CS6W-570-580T	n-type	182	144	TOPCon	Half-cell, MBB	580	22.5
16	Eging PV	STAR Pro	EG-580NT72-HL/BF-DG	n-type	182	144	TOPCon	Bifacial, Half-cell, MBB	580	22.5
16	RUNERGY	-	HY-DH144N8	n-type	182	144	TOPCon	Bifacial, Half-cell, MBB	580	22.5
22	Qn-SOLAR	-	QNN182-HG-72	n-type	182	144	TOPCon	Bifacial, Half-cell, MBB	580	22.45

TaiyangNews Top Modules- February 2025

Certifications



System Management

ISO9001/ ISO14001/ ISO45001
ISO50001/ ISO14067
IEC TS 62941
IEC TS 62994
SA8000
.....



Products

IEC61215 / IEC61730
IEC62892 / IEC63209-1
IEC62938
Salt Mist Corrosion,
Ammonia Corrosion, Anti-
PID, Dust and Sand
.....



Laboratory Qualifications

CNAS ISO
IEC17025
TÜV SÜD TMP
.....

Certifications

National/Regional Access



CE Certification / EU



EPD / NORWAY



R-41276260
BIS / INDIA



JP-AC / JAPAN



CEC / AUSTRALIA



MCS / UK



QAD / ABU DHABI



INMETRO / BRAZIL



DEWA / DUBAI



ECS CRE4 / FRANCE

Adhering rigorously to quality standards for safety, performance, and environmental impact, Huasun's HJT products have earned authoritative certifications in numerous countries and regions worldwide.



RECORD-BREAKING!

Himalaya G12-132

768.938W Power
24.75% Efficiency

Everest G12R-132

669.1W Power
24.77% Efficiency

www.huasunsolar.com



PART

2

HJT Technology

WHY CHOOSE HJT?

HJT technology offers significant advantages in efficiency, performance and low carbon footprint, outperforming other technologies such as PERC and TOPCon.

Huasun is confident that HJT technology will become the mainstream standard in the new era of photovoltaics, driving the future of the solar industry.

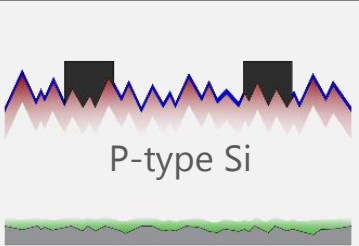
Why Choose HJT?

← P type

N type →

BSF Cell

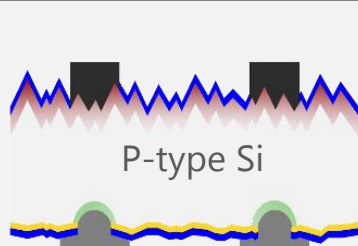
~21%



P-type Si

PERC Cell

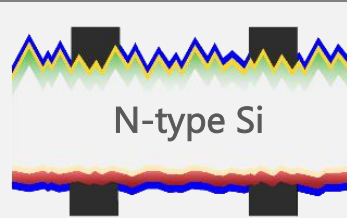
~23%



P-type Si

TOPCon Cell

>24.5~25.5%



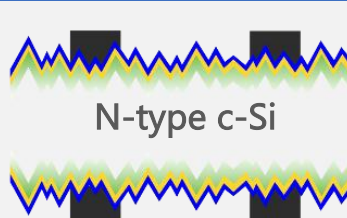
N-type Si

1. 10+ manufacturing steps
2. 800°C + manufacture temp.
3. High carbon footprint

740W+

HJT Cell

>25.5~26.5%



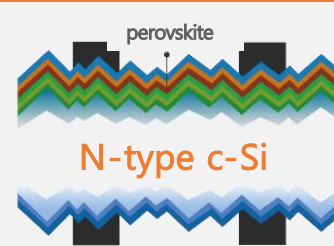
N-type c-Si

1. 4 manufacturing steps
2. 200°C manufacture temp.
3. Lower carbon footprint

800W+

Tandem Cell
HJT + Perovskite

>28%



perovskite

N-type c-Si

← Poly era

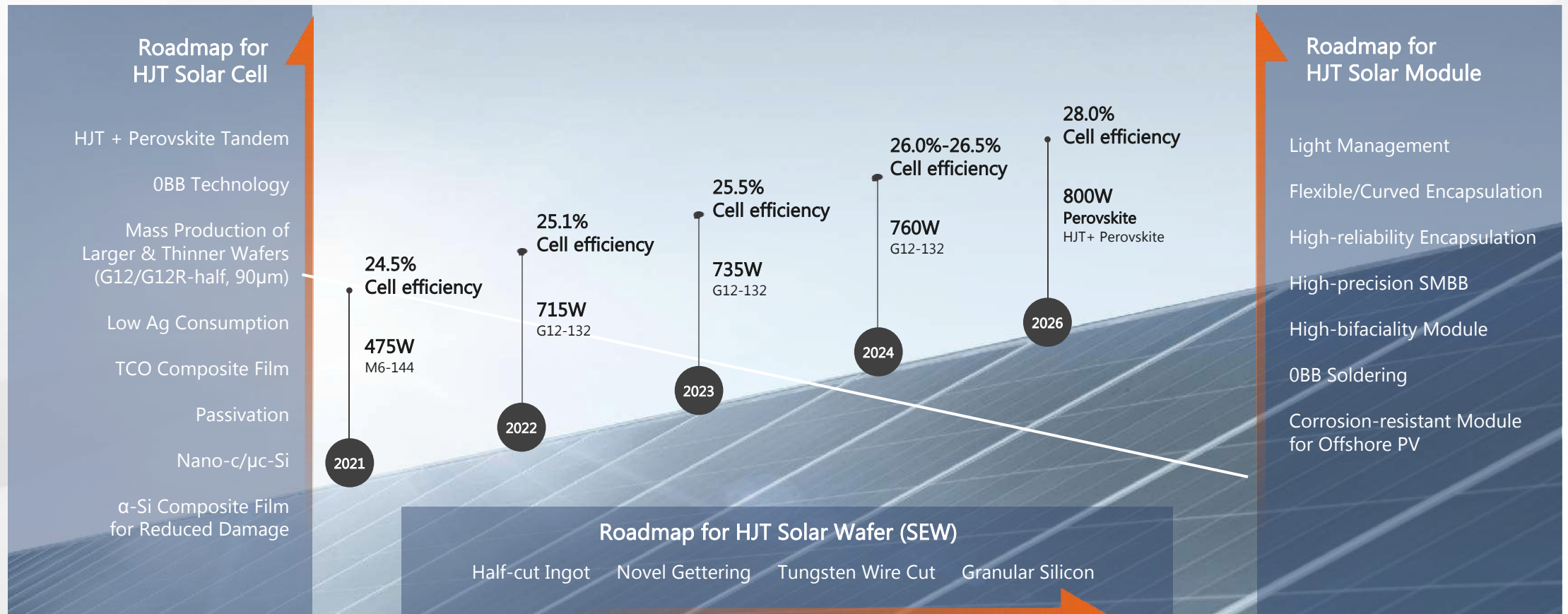
Mono era →

Why Choose HJT?

Huasun continuously innovates by integrating HJT with other advanced technologies, enabling us to enhance efficiency and reduce costs across our product lines.

800W+

HJT + Perovskite + 210mm Wafer



HUASUN HJT



Higher Efficiency

Top-tier modules with unparalleled efficiency and power output maximize energy yield for solar projects.



Ultra-high Reliability

Use of advanced materials ensures unmatched reliability within the industry.



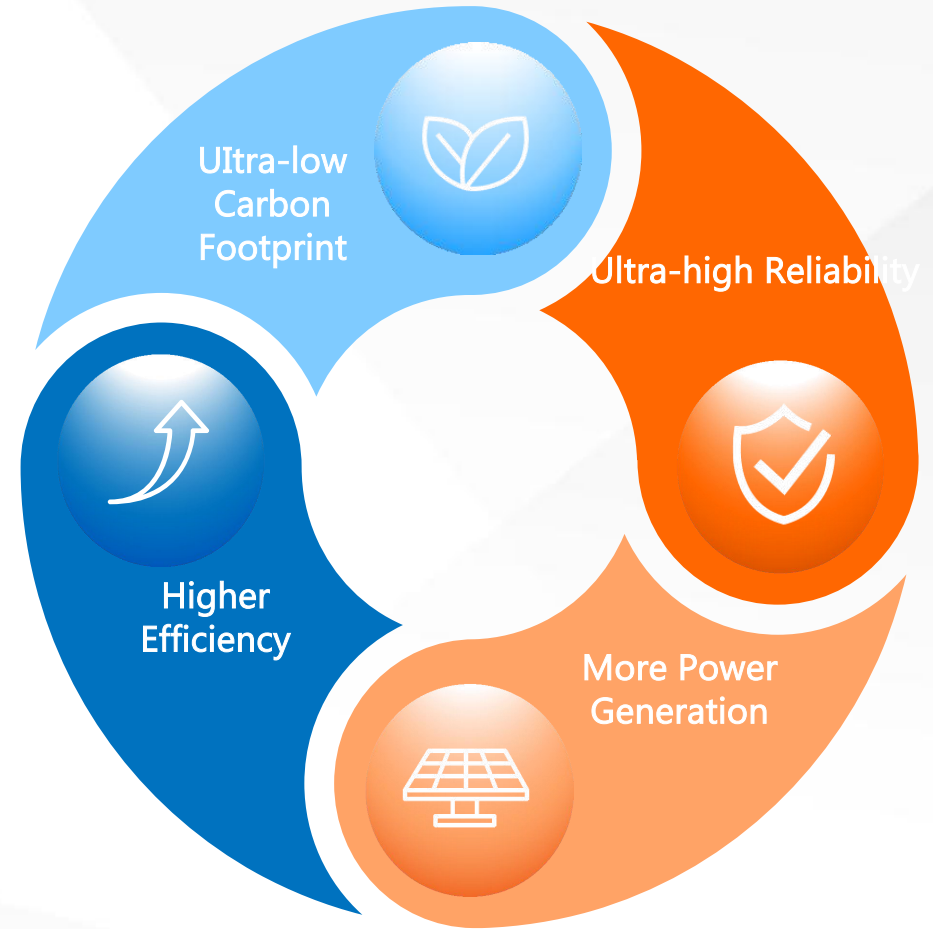
More Power Generation

Superior temperature coefficient, higher bifacial energy yield, and reduced lifetime degradation lead to higher power generation.



Ultra-low Carbon Footprint

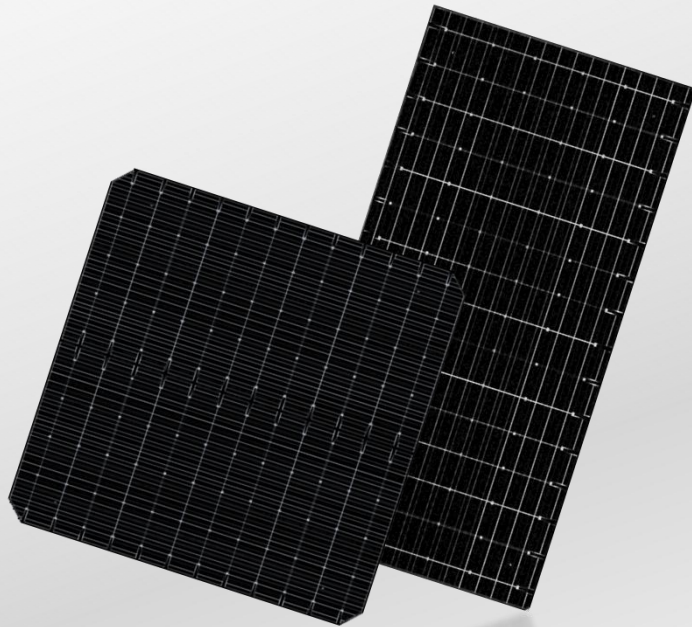
As low as
366.12kg CO₂ eq/kW.



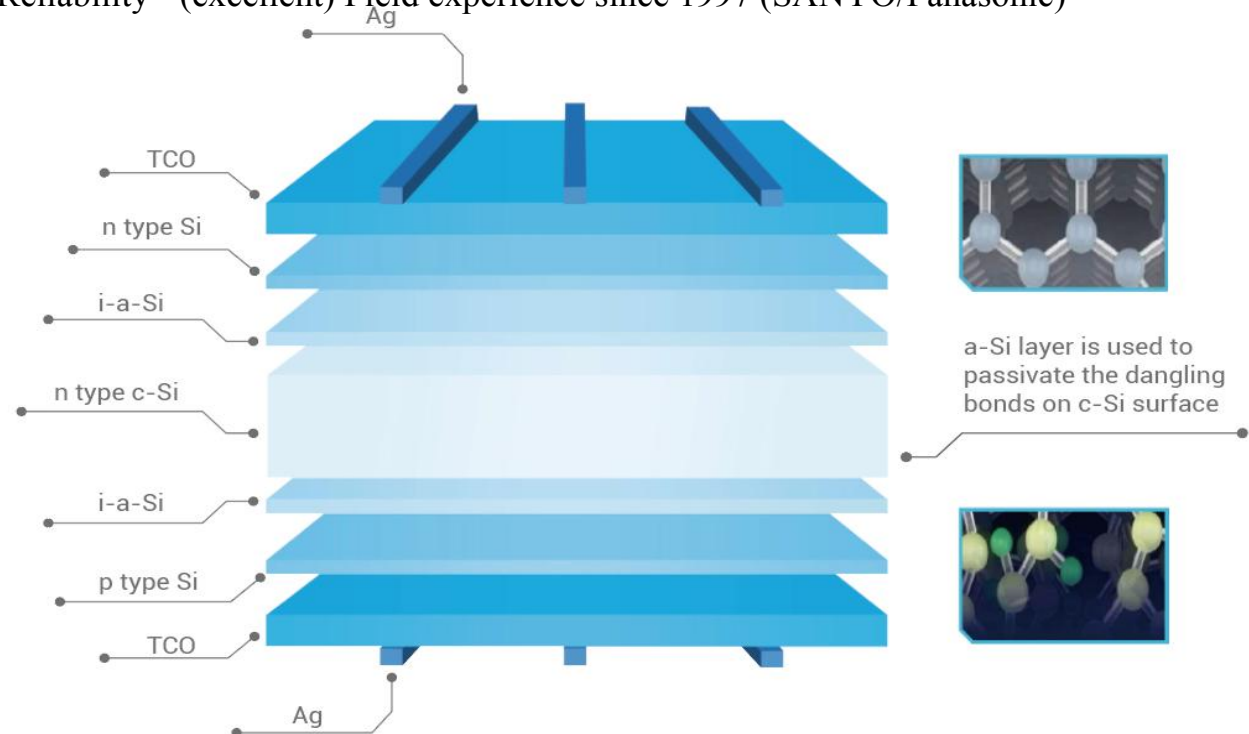
Heterojunction

Latest Generation Tech

HJT



- HJT cells combine the advantages of crystalline silicon and thin film technologies, offering superior light absorption and passivation. HJT cells enhance conversion efficiency and power output. They represent the future direction of solar cell technology platforms.
- N-type silicon
- Passivation with a-Si, u-Si and n-Si
- Cell bifaciality up to 97%
- Simple cell manufacturing process
- Proven Reliability - (excellent) Field experience since 1997 (SANYO/Panasonic)

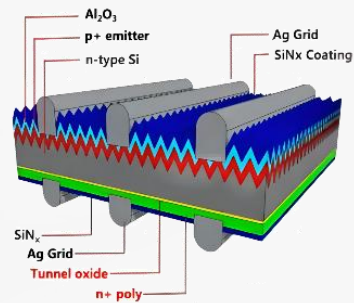


Higher Efficiency

TOPCon

TOPCon, an upgrade based on PERC cell structure, offers cell eff. between 24.5% and 25.2%, but has limited room for future enhancement.

Cell eff.
24.5~25.5%



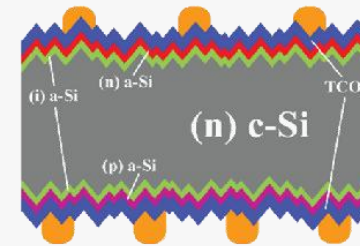
Unclear path for cell eff. improvement in future.

Champion efficiency in mass production

26.5%

HJT

HJT achieves higher cell eff. than TOPCon, with Huasun's mass production line averaging 26.15%.



Clear path to improve cell efficiency, offering significant potential for further upgrades.

* Huasun G12 Series HJT solar cells achieve an average mass production of 26.15%, with champion production efficiency reaching 26.5%.

More Power Generation

-0.24%/°C

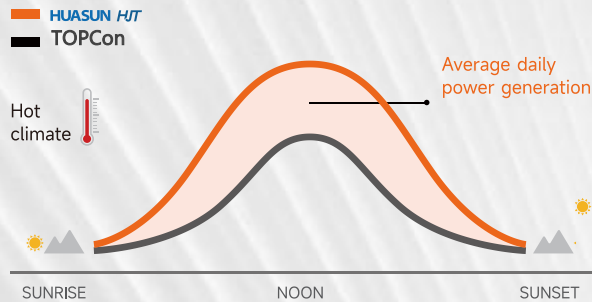
Industry Leading Temp. Coefficient

+2~5%

Higher Bifacial Energy Yield

≤9.7%

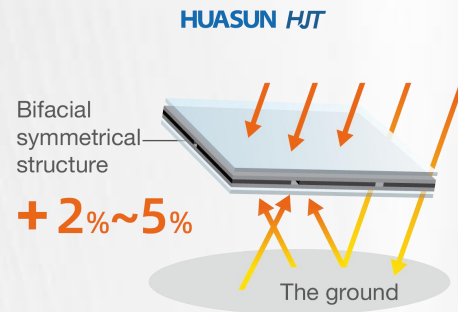
Lower Lifetime Degradation Rate



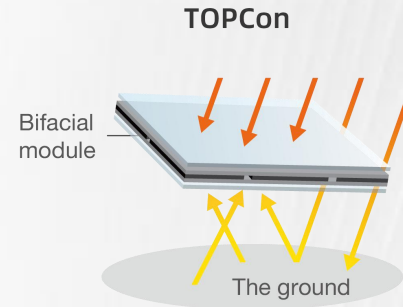
Temp. Coefficient

HJT **-0.24%/°C**

TOPCon **-0.29%/°C**

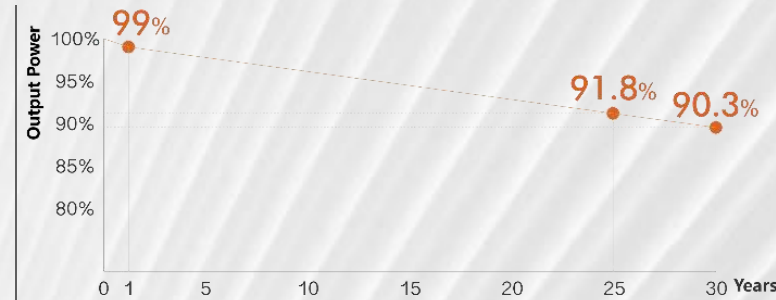


Bifaciality



HJT up to **95%**

TOPCon **80%**



≤1% degradation in the first year

≥90.3% of rated power maintained after 30 yrs

Ultra-high Reliability

First-class Materials Ensure Ultra-high Reliability



Half Cut Ingot



Light Conversion Film



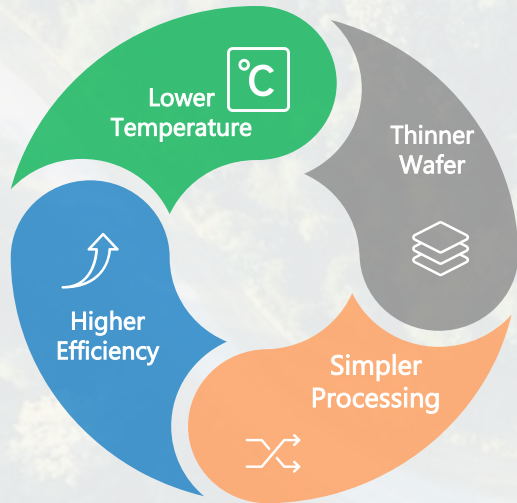
Sealing with PIB Based Sealant



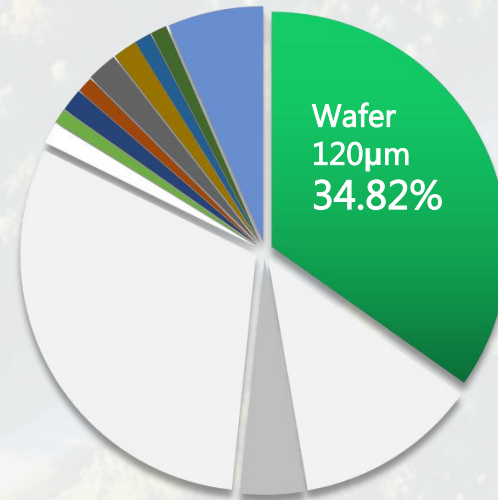
Double Glass Design with Frame

Huasun partners with top-tier material suppliers worldwide and delivers products that exceed industry quality standards.

Carbon Footprint

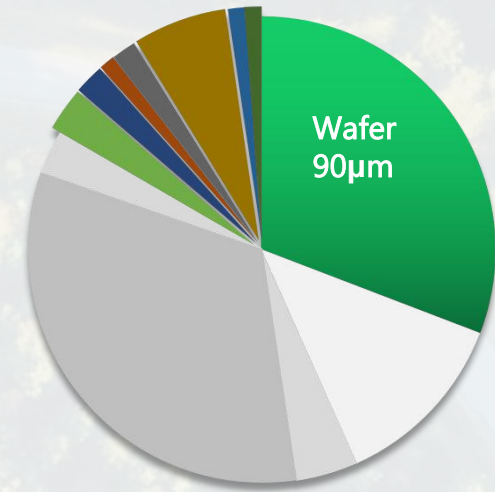


Industry Leading
Carbon Footprint



366g CO₂ eq/W

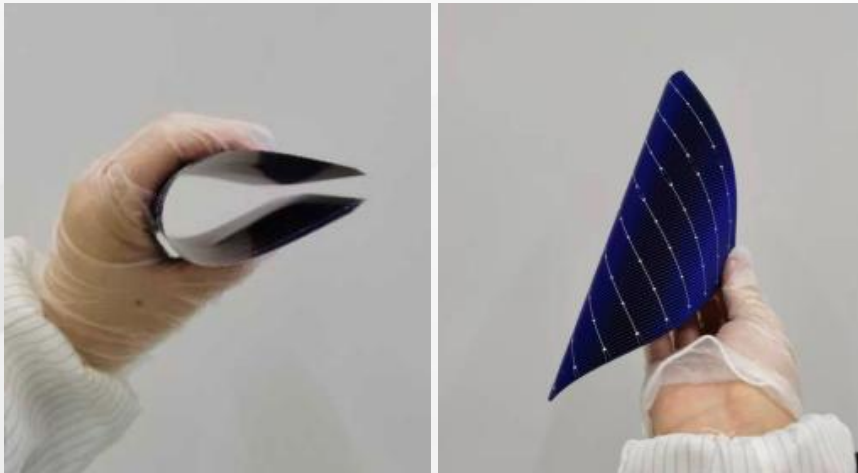
- Certified by TÜV Rheinland
- Issued Date: July 14th, 2023
- Module: HUASUN HJT Module
- Wafer Thickness: 120µm



Future
<300g CO₂ eq/W

Carbon Footprint

Advantages of a Thinner Wafer



HJT	90-110 μm
TOPCon	130 μm
PERC	150 μm

- As the technology matures, HJT solar cells are now being manufactured using silicon wafers with a thickness of **90 μm** .
- Combining with **0-busbar solar cells** enables the HJT modules to achieve even **higher efficiencies**.

Process Advantages



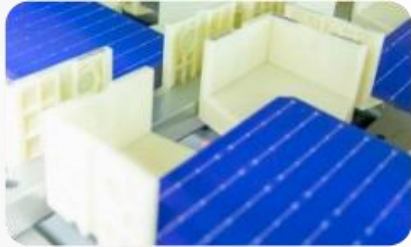
01 Cleaning & Texturing



02 Bifacial CVD



03 Bifacial PVD



04 Screen Printing

4

Steps

HJT

200°C

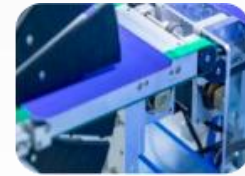
VS

10+

Steps

OTHER

800°C



Unlike other solar cell technologies, Huasun's HJT cells are produced using just 4 low-temperature process steps, resulting in significantly higher productivity lower carbon footprint.

Cost Down in Heterojunction

Factory CAPEX

Wafer

Silver/Indium

Other

Cost Down in Heterojunction

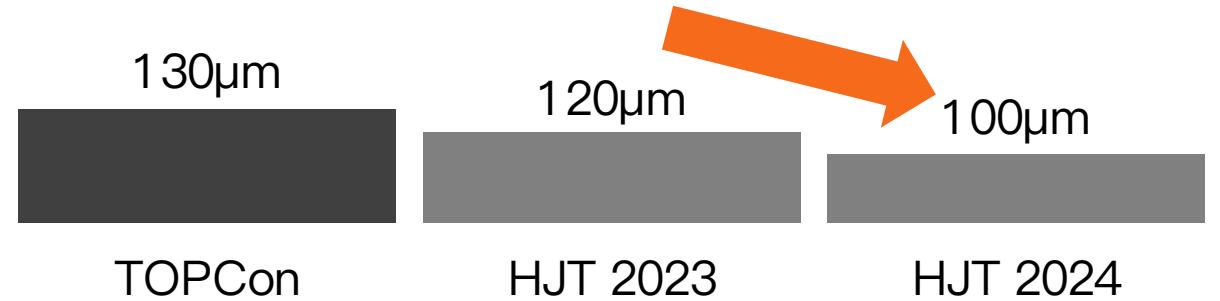
Factory CAPEX

Wafer

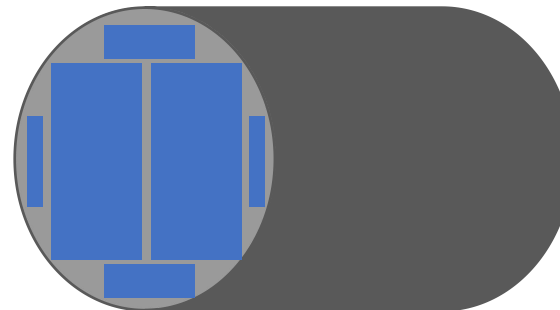
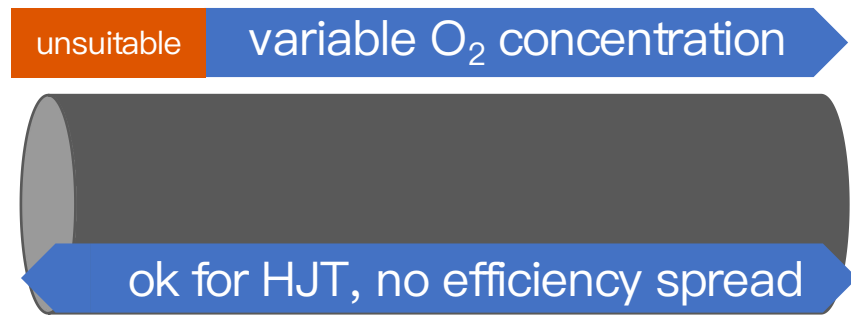
Silver/Indium

Other

Wafer thickness



TOPCon requires stable and low O_2 concentration



With half-cut wafers, we can make 1/2 size slabs from the rest of the original ingot to utilize more and waste less

Cost Down in Heterojunction

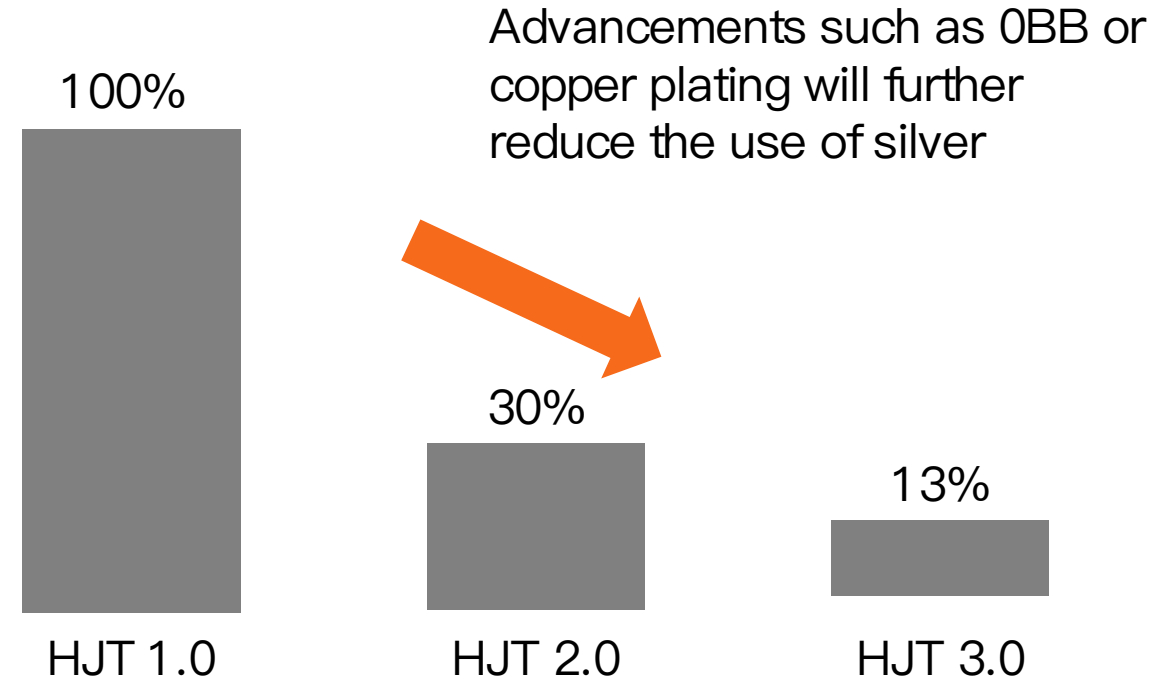
Factory CAPEX

Wafer

Silver/Indium

Other

Silver consumption per Wp



- Indium-free TCO alternatives are under evaluation
- Low-indium-use alternatives are under implementation

Reliability and durability / handling the main degradation sources



LID

NO BORON



LeTID

n-type silicon

MICROCRACKS



Contact Ageing

TC2000



PID

TCO surface

UV irradiance

Humidity ingress
(corrosion/isolation failure)



HOTSPOTS

max 72 SMBB cell in series



Other (at cell or module level)

HJT track record >20 years, IEC x 3 test sequences

Microcracks



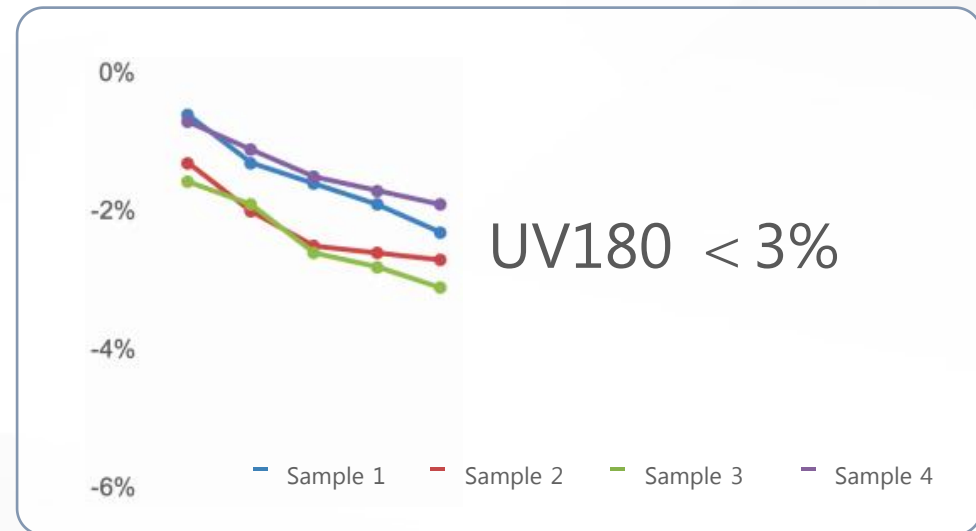
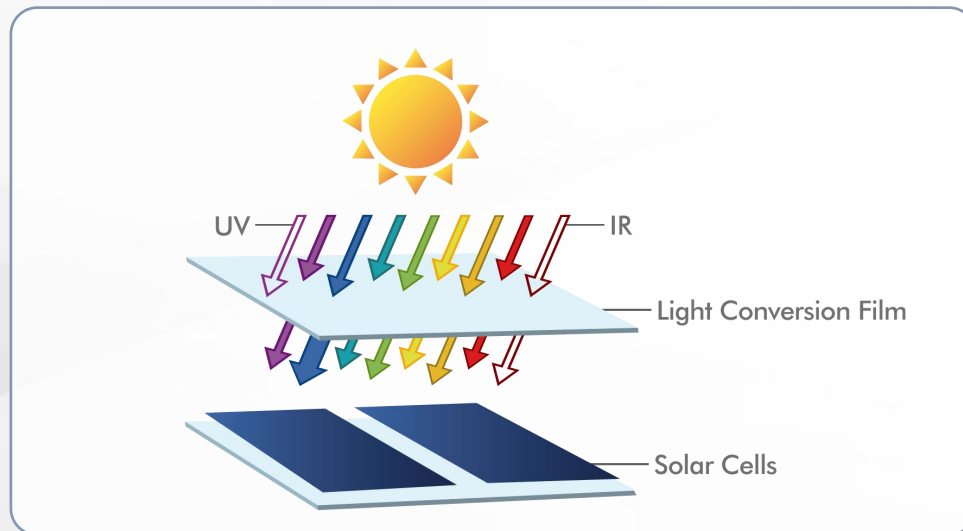
- Wafer of 120 μm (2023), <math><100\mu\text{m}</math> (2024)
- No laser damage
- Flexible without breaking
- Symmetrical structure
- Glass/glass module

- **For Huasun HJT, cells are not prone to crack through mechanical stress**

Ultra-high Reliability

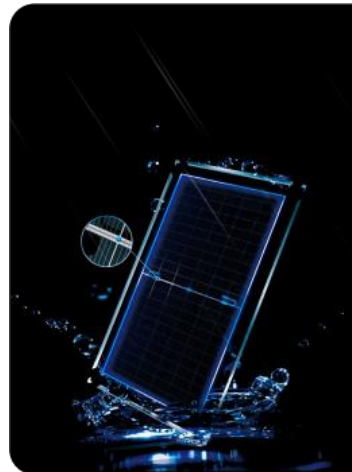
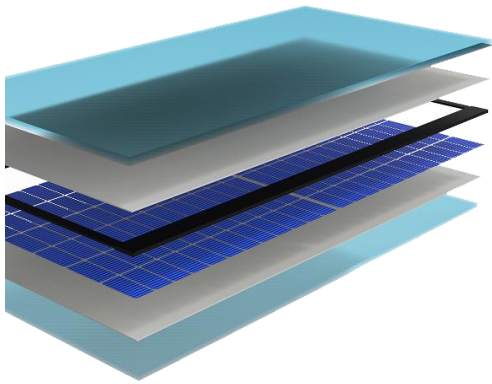
Light Conversion Film

The Huasun HJT module is encapsulated with light conversion film that converts UV light (<380nm) to blue light (~400-550nm). This feature significantly enhances the module's UV resistance.



Degradation and module failure caused by water vapor ingress

- For n-type cell technologies (TOPCon / Heterojunction), there exists the risk of degradation caused by the **ingress of humidity** until reaching the cell (metallization/TCO corrosion)
- Huasun uses **sealing of the module edges and glass openings**, using a material (PIB) 100x better than the best current option (POE/EPE), in terms of resistance to water penetration
- We have run the tests (DH6000) that emulate a very hostile environment for the complete module lifetime, and they show **very low and stabilized degradation**
- We exclusively use **glass-glass**, eliminating additional backsheet risks (quality, ageing, scratches, etc)



100 times



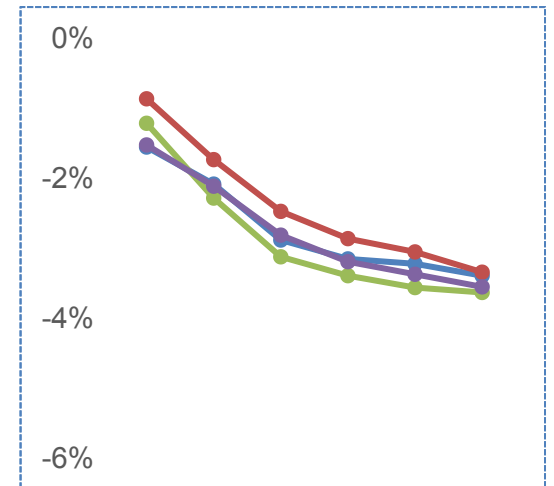
Water penetration resistance

Silicon penetration rate

30~50 g/m²•d

Butyl rubber penetration rate

< 0.3 g/m²•d



DH6000 power degradation < 4%

Reliability and durability / handling the main degradation sources



LID

NO BORON



LeTID

n-type silicon



MICROCRACKS



Electrical Ageing

TC2000



PID

TCO surface



UV irradiance



Humidity ingress
(corrosion/isolation failure)



HOTSPOTS

max 72 cell in series



Other (at cell or module level)

HJT track record >20 years, IEC x 3 test sequences

PART

3

HJT

PV MODULES

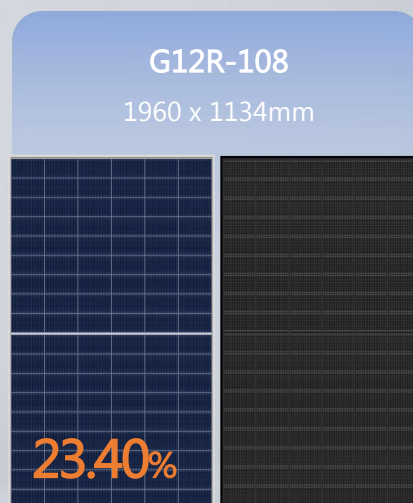
Product Portfolio

465W



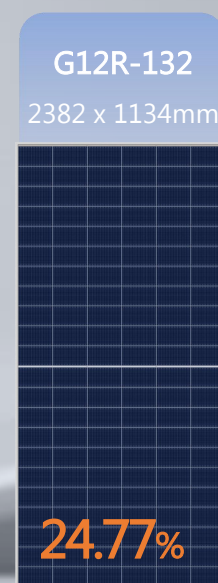
Residential

520W



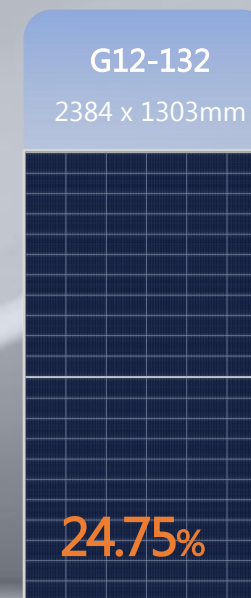
Commercial & Industrial

669W



Utility-scale

768W



Available in DSB and DSN versions: G12R-96, G12R-108

Himalaya G12 Series

Bifacial double-glass HJT module

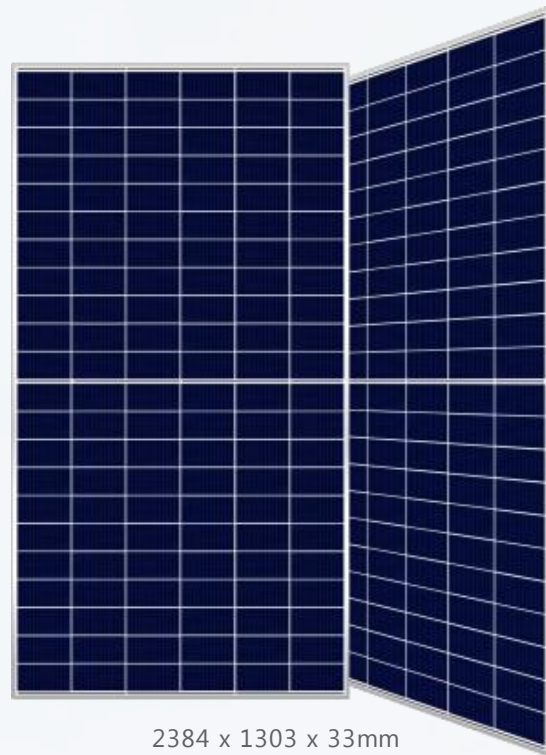
768W

Module Power

24.75%

Module Efficiency

- µc-Si technology
- N-type 210mm solar cells
- Half-cut ingot
- SMBB/OBB technology
- Up to 95% bifaciality
- Ideal for large-scale utility projects



2384 x 1303 x 33mm

Competitor Specs

- N-type TOPCon
- 700W
- 22.7%
- 2384 x 1303 x 33mm



Himalaya G12 Series

Himalaya *V-ocean* High-efficiency HJT module

768W

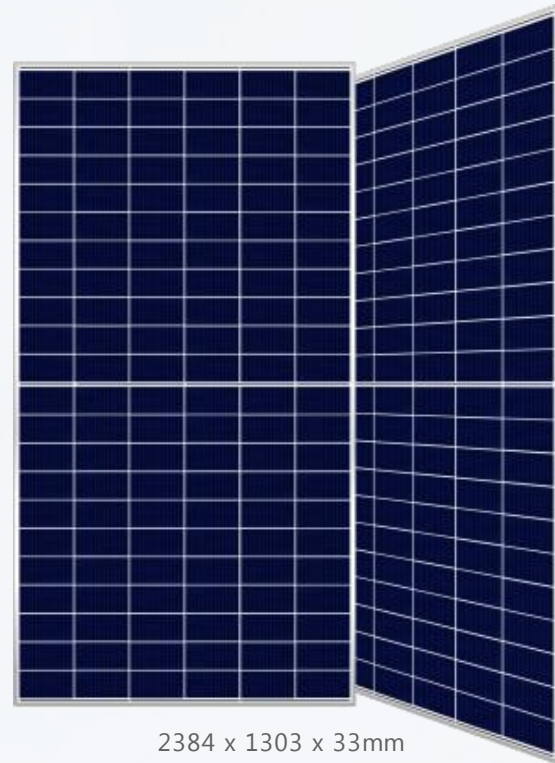
Module Power

24.75%

Module Efficiency

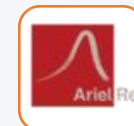
- μc-Si technology
- N-type 210mm HJT solar cell
- Light conversion film
- IP68 Complete PIB sealing and
- IP68 junction box
- Integrated coating frames

- Double-layer coated glass
- Enhanced wind load resistance
- Improved vibration resistance
- Exceptional watertightness
- Superior salt mist resistance



Competitor Specs

- N-type TOPCon
- 635W
- 22.8%
- 2465 x 1134 x 35mm



Himalaya G12 Series

Ultra-bifaciality double-glass HJT module
for vertical installations

768W

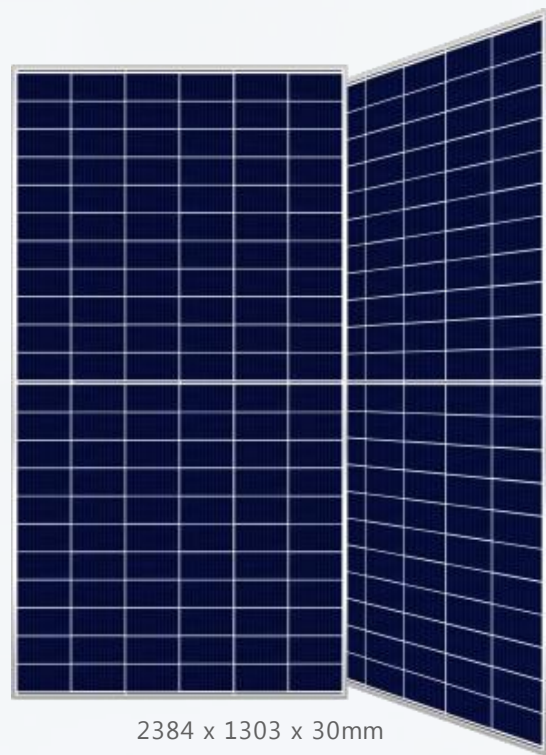
Module Power

24.75%

Module Efficiency

- N-type 210mm solar cells
- Double-sided microcrystalline technology
- Special frame design increases bifaciality to an average of 95%+
- SMBB technology
- Minimal land footprint and ultra-low operating & maintenance costs
- 15-year product warranty
- 30-year linear performance warranty

Ideal for farm, rangeland and utility projects



2384 x 1303 x 30mm



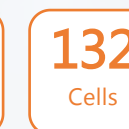
Farm



Rangeland



Highway



Everest G12R Series






Bifacial double-glass HJT module

669W

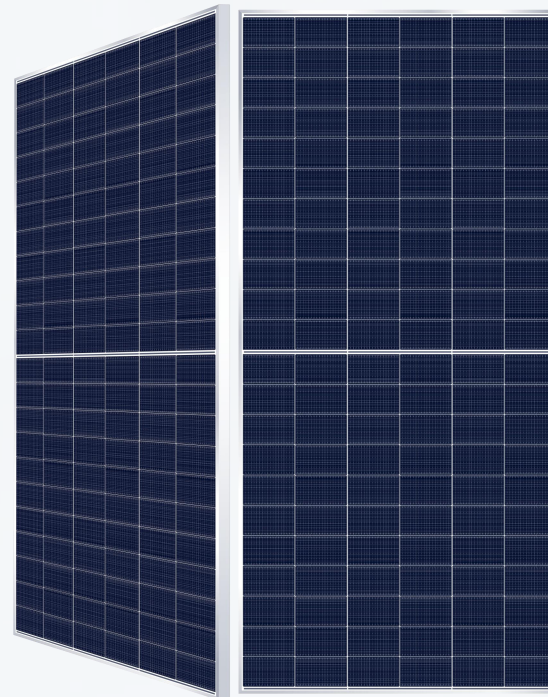
Module Power

24.77%

Module Efficiency

-  N-type 210R solar cells
-  Double-sided microcrystal cells
-  Half-cut ingot
-  SMBB/OBB technology
-  Up to 95% bifaciality

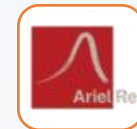
Ideal for residential, commercial & industrial rooftops, and utility projects



2382 x 1134 x 30mm

Competitor Specs




- N-type TOPCon
- 635W
- 22.8%
- 2465 x 1134 x 35mm

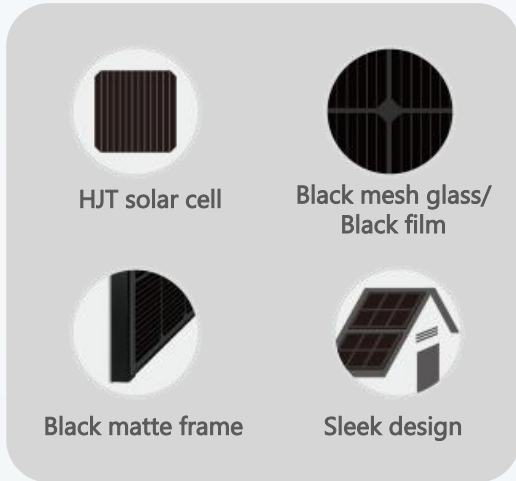


Everest G12R Series

BLACK & LIGHT

Bifacial double-glass HJT module

-  Sleek all-black design
-  Lightweight for fast installation
-  Ideal choice for residential rooftops



520W

Module Power

23.40%

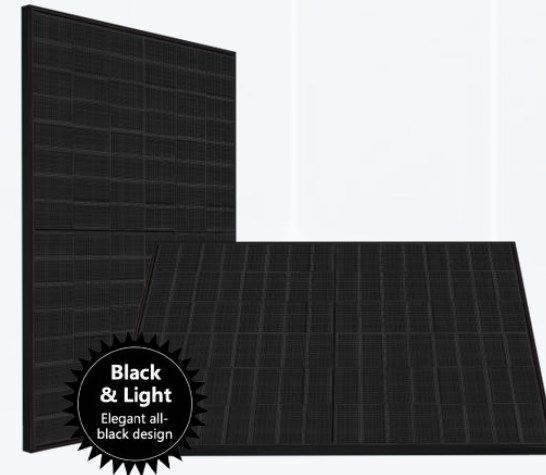
Module Efficiency

465W

Module Power

23.27%

Module Efficiency



Available in DSB and DSN versions: G12R-108, G12R-96

Warranty & Reinsurance

Product Warranty



*A 30-year residential rooftop product warranty is available in select markets, including Europe, Australia, Japan, and Korea.

Third Party Reinsurance

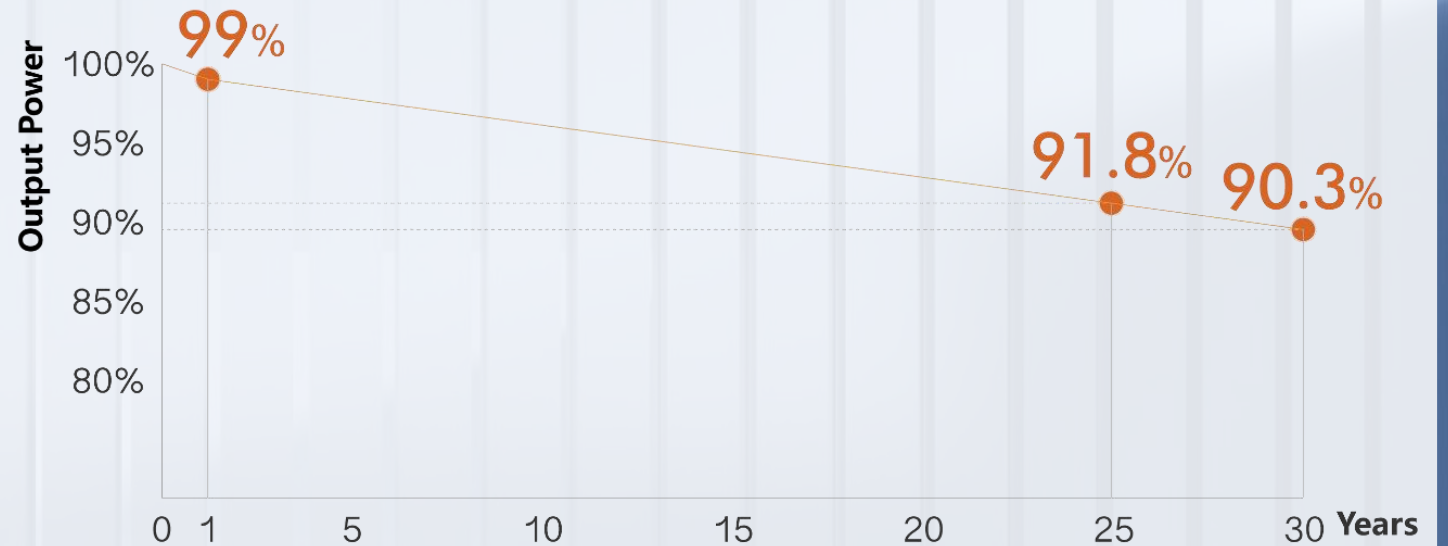
The **FIRST** insurance-backed HJT module manufacturer

*Ariel Re: Ariel Re Lloyd's of London, is one of the most experienced insurance and reinsurance institutions in the world with its 30 years of underwriting history and experience.



* $\leq 1\%$ degradation in the 1st year
 $\leq 0.3\%$ annual degradation during the 2nd to 30th years
 $\geq 90.3\%$ of rated power maintained after 30 years

Linear Power Degradation



*Refer to HUASUN standard warranty for details

PART

4

Powering the World

Project References

Bulgaria 650MW Utility Project

Currently the world's LARGEST single-site

HJT utility tracking solar project.

-  Location: **Pazardzhik, Bulgaria**
-  Capacity: **650MW**
-  Annual Power Generation: **1.06 billion kW·h**
-  Annual Coal Saving: **320,000 tons**
-  Annual CO₂ Emission Reduction: **870,000 tons**



650MW
Bulgaria

INERCOM Apriltsi Village

* The project is under construction.

Project References

Ruoqiang, China 1.8GW Utility Project

Currently the world's LARGEST single-site

HJT utility solar project.

-  Location: **Ruoqiang, China**
-  Capacity: **1.8GW**
-  Annual Power Generation: **2.7 billion kW·h**
-  Annual Coal Saving: **814,000 tons**
-  Annual CO2 Emission Reduction: **2,217,000 tons**



1.8GW
Ruoqiang, China

* The project is under construction.

Project References



Dali, Yunnan 1.7GW Utility Project

- Location: **Dali, China**
- Capacity: **1.7GW**
- Annual Power Generation: **2.66 billion kW·h**
- Annual Coal Savings: **802,000 tons**
- Annual CO₂ Emission Reduction: **2,184,000 tons**



Weifang, Shandong 50MW Agrivoltaic Project

Currently the **LARGEST HJT agrivoltaic** project in China.

- Location: **Shandong, China**
- Capacity: **50MW**
- Annual Power Generation: **63,180,000 kW·h**
- Annual Coal Savings: **19,000 tons**
- Annual CO₂ Emission Reduction: **52,000 tons**

Project References



Germany 5.2MW Agri Solar Park

- 📍 Location: Merzig-Welligen, Germany
- 🏠 Capacity: 5.2MW
- ⚡ Annual Power Generation: 6,020,000 kW·h
- 🌳 Annual Coal Savings: 2,000 tons
- ♻️ Annual CO₂ Emission Reduction: 5,000 tons

Project References



Xuancheng, Anhui, China
23MW Fishery Photovoltaic Project



Shouguang, Shangdong, China
10MW Floating Solar Project



Ningguo, Anhui, China
15MW C&I Rooftop



Hamamatsu, Shizuoka, Japan
6MW Utility Project



Bắc Giang, Vietnam
20MW C&I Rooftop



Thun, Switzerland
43kW Residential Rooftop

Global Network



📍 Huasun Himalaya and Everest high-efficiency HJT products have been delivered to more than 60 countries and regions worldwide.

before we go...

**SOME
ADDITIONAL
INFORMATION**

How proven is the reliability?

2019 2020 2021 2022 2023 2024 2025

(2015 - 2025) PERC

TOPCon
early days

TOPCon mass
adoption

Factory
Upgrades to
TOPCon

Factory
Optimizations

(1997-2021) Legacy HJT

HUASUN

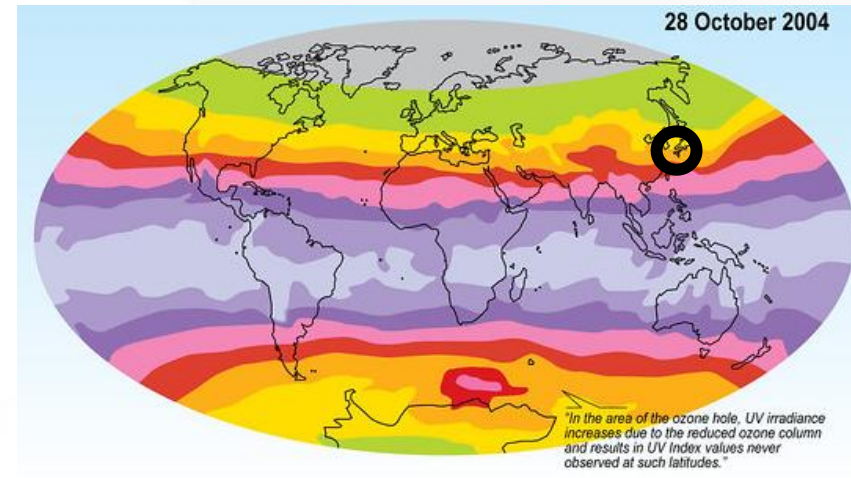
Ultra-high Reliability

In 2014, customers in Osaka, Japan adopted Panasonic HJT optical conversion technology modules, with a **cumulative degradation of only 1.6% after more than 8 years of operation.**

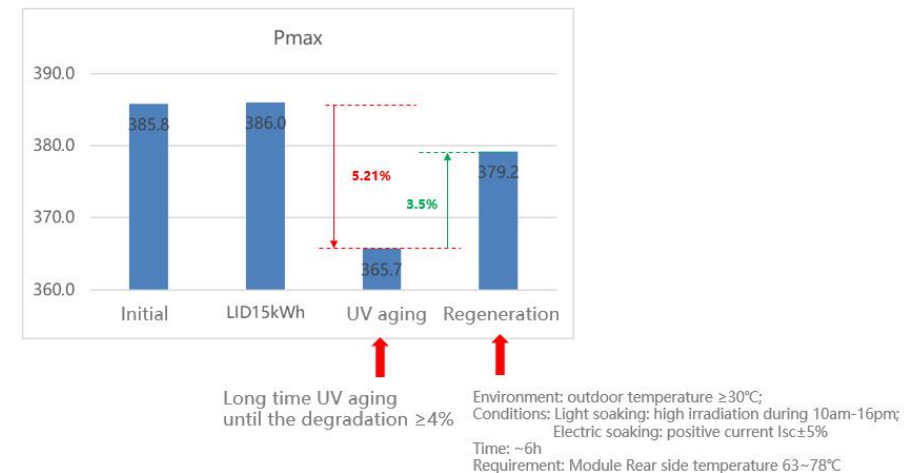


Residential modules in Osaka, Japan (installed in 2014)

HJT has a UV regeneration mechanism, which is activated in the same weather conditions in which UV is relevant (i.e. high irradiance and high temperature)



Source: GRID-Arendal, Emmanuelle Bournay



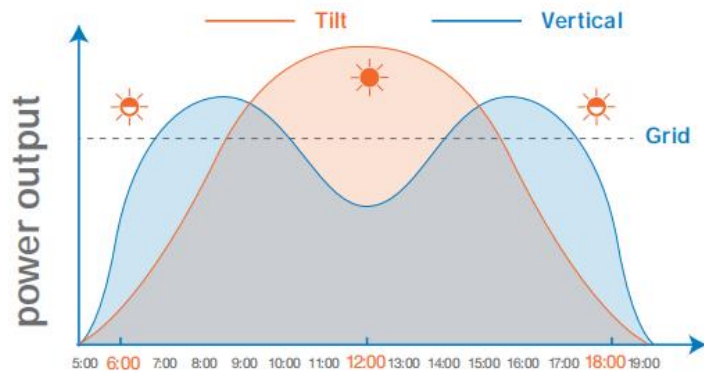
We test what we sell (BOM). Huasun 3 x IEC (2023)

Component	Type	Critical	% of mass production	Retesting if alternative used
Glass	Wujiang CSG Ultrawhite toughened glass 2mm	no	60%	SML, DML
Encapsulation	Cybrid WT11 0.55mm (front)	yes	60%	DH3000, PID
Frame	Conch 6005-T6	no	55%	SML, DML
Sealing	Kommerling GmbH PVS101	yes	100%	DH3000
Ribbon	Yan Cheng 0.26mm Sn43Pb43Bi14	yes	80%	TC600, DH3000
Flux agent	Suzhou COSTAR FD-309	no	70%	TC300
Cell Interconnection	Huasun SMBB (G12)	yes	70%	TC600, DH3000
...	...			

Representative BOM choice (selected randomly by 3rd party)

Application Scenario-Vertical Installation

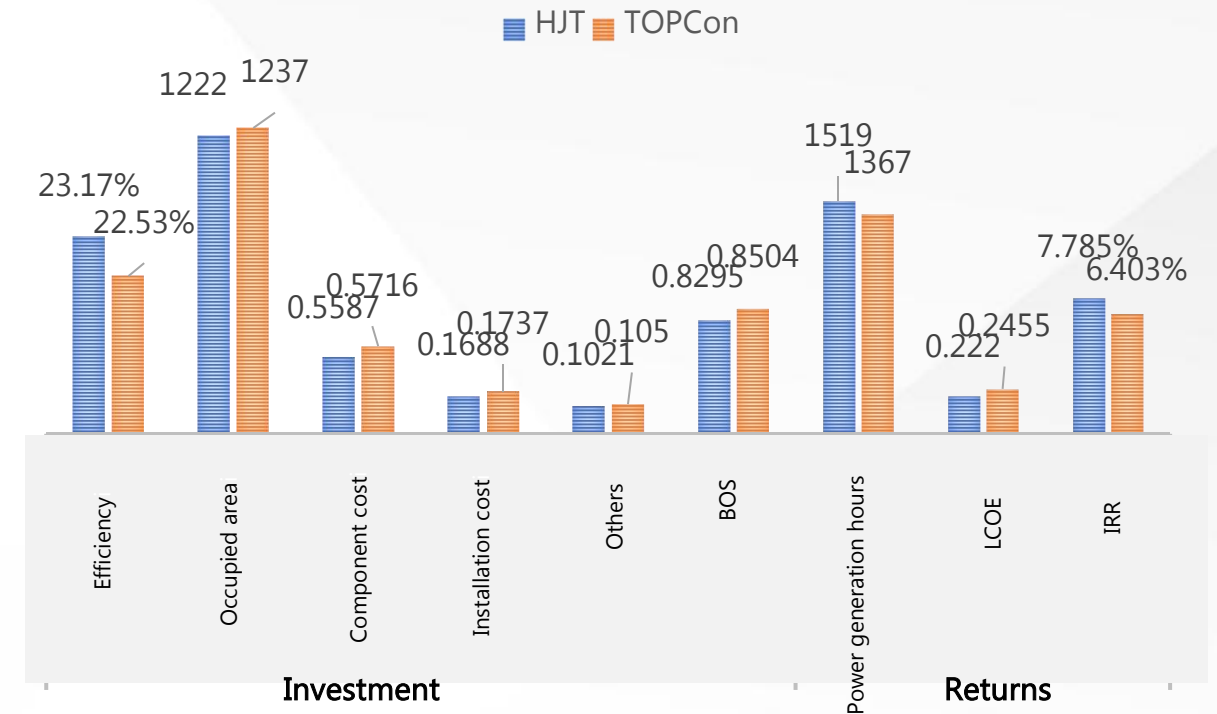
No.	Power output -front	Power output -back	Bifaciality	Average bifaciality
1	715.79	683.09	95.4%	95.3%
2	717.21	682.51	95.2%	
3	717.68	685.01	95.4%	
4	716.81	682.51	95.2%	
5	715.94	682.54	95.3%	
6	718.51	683.87	95.2%	



- Vertical installation of PV modules enables **dual-peak** electricity generation, making it a perfect fit for market-based peak-valley electricity price trading models.
- In vertical installation scenarios, HJT modules deliver superior power generation performance: surpassing TOPCon modules by **10%-12%** and PERC modules by **16%-20%**.

HJT Vertical Installation Solution for Agri-PV (Jinta, Gansu, China)

Type	TOPCon 700W	HJT 720W	Comparison
Module power (Wp)	700	720	20W higher
Module dimension (mm)	2384*1303*33	2384*1303*33	/
1st-year power degradation	1%	1%	/
Annual linear degradation	0.4%	0.3%	0.1% lower per year
Bifaciality	80%	95%	15% higher
Array	2P	2P	/
Installation tilt (°)	90	90	/
Front facing	west	west	/
Number of modules per string (pcs)	26	26	/
Pnom Ratio	1.51	1.51	/
Number of strings	4100	3986	114 strings less
Number of modules	106600	103636	2964 pcs modules less
AC system capacity (MW)	49.5	49.5	/
Land area (ha)	82.4667	81.4667	1ha less



When compared to TOPCon 700W with fixed trackers, HJT 720W module offers several advantages:

- **0.64%** efficiency gain
- Saves **1 ha** land use and cuts BOS costs by **2.45%**
- **11.12%** more electricity generation hours in first year
- **9.57%** lower LCOE and **1.38%** higher IRR



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