






PRODUCT CATALOG

2023

Higon Solar Co., Ltd

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 [facebook.com/higon.solar](https://www.facebook.com/higon.solar)

 [instagram.com/higon.solar_official](https://www.instagram.com/higon.solar_official)

HIGON

HIGON - TASTE THE SUN

HIGON - Always Beyond Expectations

HIGON is an international, innovative, solar energy company with a strong reputation across the world. Dedicated to bringing clean solar energy to everyone with our reliable and high-end products, 'Taste the Sun' is not just a slogan – it is a promise we live up to every day in delivering outstanding, high quality products to our customers.

Founded in
2014

6+
million modules
manufactured

3
gigawatt
produced

110
countries
footprint

3+
million tons
of CO₂ reduced
annually



HIGON - Solar Empower Life

HIGON solar modules are already powering all parts of our lives - homes, schools, sport stadiums, hospitals, supermarkets and airports to name but a few. We believe solar is the present and future.

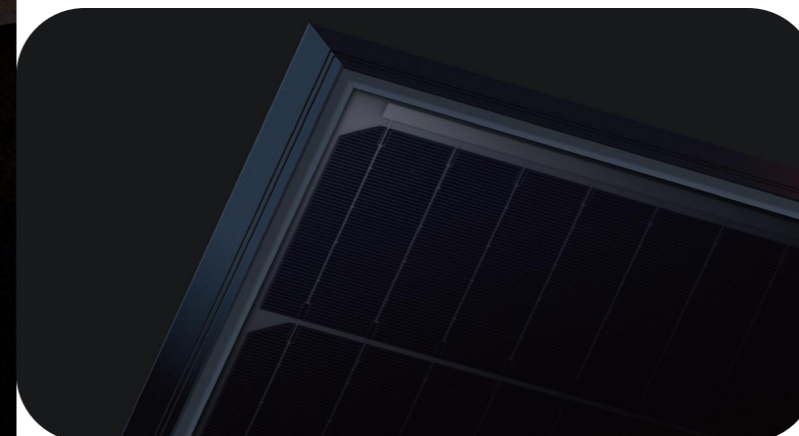
HIGON - Solar Empower Work

We are helping factories and companies become independent in energy. Minimise electricity costs and maximise sales return. For sustainable and self-sufficient corporate management- now and in the future.



HIGON - Better than Good

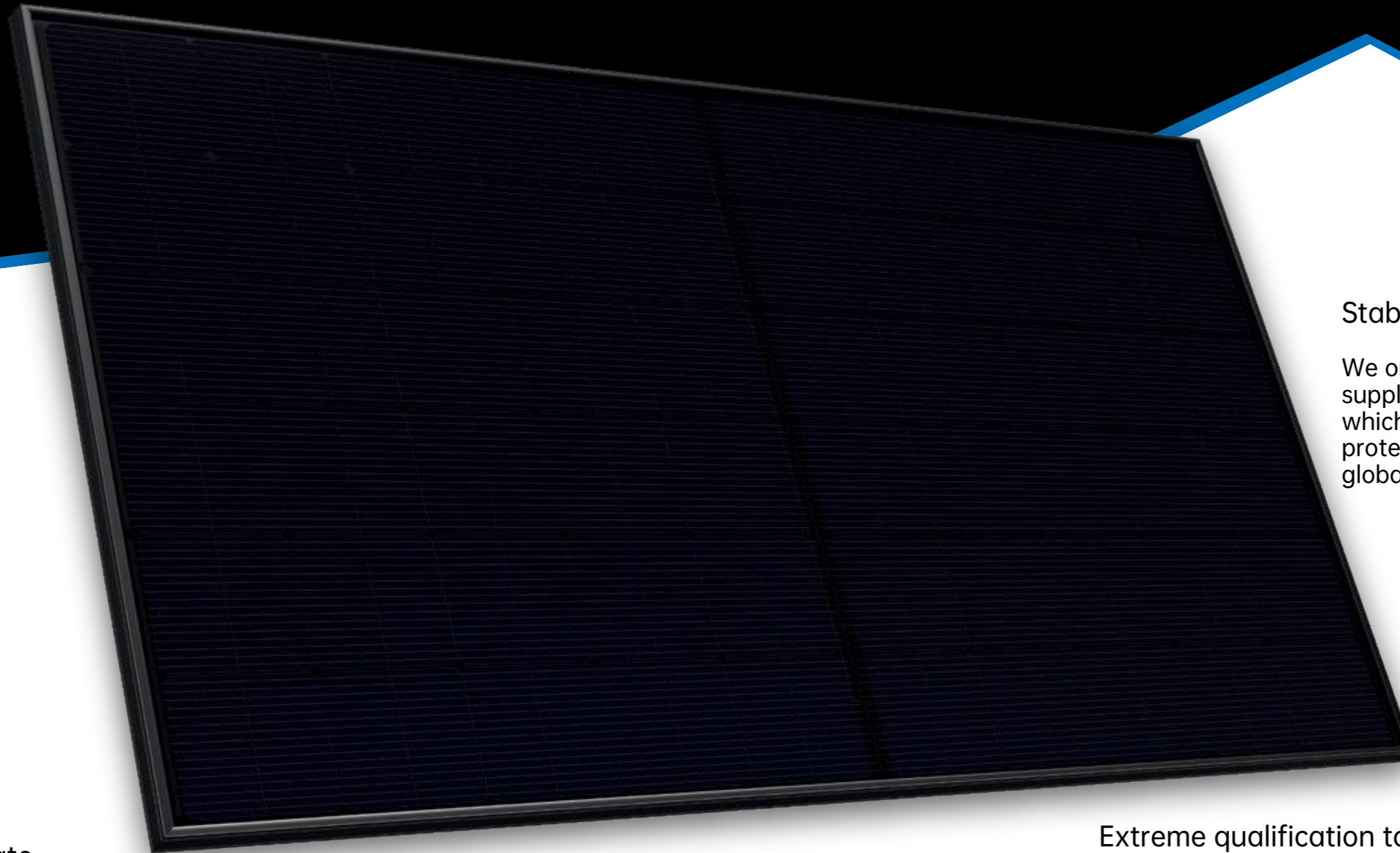
Innovation DNA is driving us becoming different and special : constantly leading the way in high efficiency and powerful products. We are constantly developing new technologies and new products, Half Cell, HJT, N-Type, Topcon, to obtain extra power and efficiency for our customers.



RETHINKING QUALITY

Quality Comes First

Supplying customers with the very best products is key to everything we do at HIGON. For us, this means high levels of quality at every stage of production, shipping and sales, right through to the final installation.



Stable supply chains:

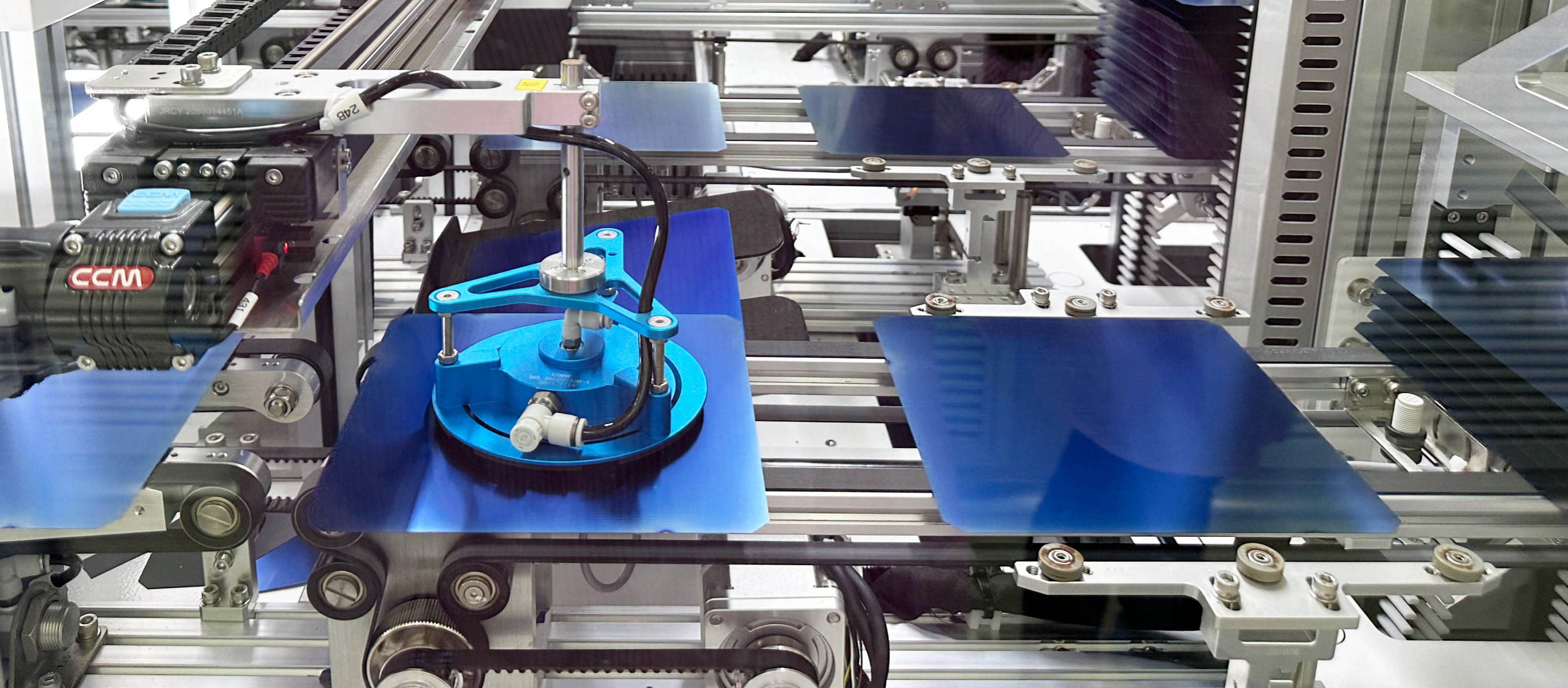
We only source components from top suppliers, like TW Solar, Longi Solar which makes us particularly well protected from interruptions in the global supply chain.

Lower product claims rate

HIGON modules consistently demonstrate a low number of product defects according to published statistics. Calculated as parts per million panels produced, HIGON's claims rate is one of the lowest in solar.

Extreme qualification to 3 x IEC

Before even hitting the production lines, HIGON products are tested to at least 3 times the international quality standards for solar panels. This is central to our development program and ensures that all HIGON modules are robust enough for any climate.



HIGON Strict Quality Control System

Stringent quality control is the cornerstone of Higon's manufacturing.

Our customers have come to expect uncompromising quality in our products.

To meet this expectation of high quality, we continue to invest in state-of-the-art equipment and professional training for our employees. We are proud of our product quality and their reliable performance even in the most extreme conditions.

ISO 9001: Quality Management System

ISO 14001: Environment Management System

OHSAS 18001: Occupational Health and Safety

IEC TS 62941: Design and manufacture of Crystalline Silicon Photovoltaic Modules

MATERIAL CONTROL

- Stringent Supplier Management
- Spot Check Every Feedstock Batch
- Supplier Quality Engineering
- Automatic Material Filtration and Sorting
- Proper Storage at Fixed Temperature and Humidity
- Incoming-material Quality Assurance

PRODUCTION CONTROL

- 300+ Quality Check Points
- 3*EL Tests
- In-process Quality Control

AFTER PRODUCTION

- Open Box Audit(OBA) Test

Higon Trustworthy Quality

Robust Quality Certified

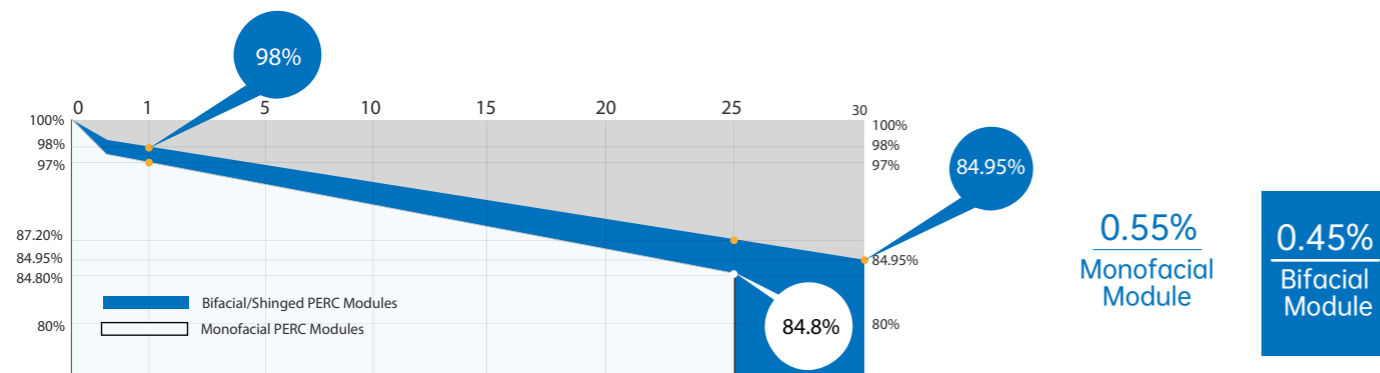
Higon is fully certified by professional third party testing organizations. Like TUV, UL. The modules can adapt to harsh climate environment.



Advanced Warranty Guarantee

FIRST-YEAR POWER WARRANTY OF $\geq 98\%$ FOR PV MODULES

Based on the advanced mono wafer and anti-LID technology, Higon offers a first-year power warranty of $\geq 98\%$ for PV modules.



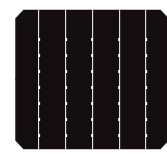
Higon provides a 15-year product warranty.
and a 25-year performance warranty for all products (a 30-year warranty for Bifacial products).
Through a comprehensive pre-sales and after-sales service system, Higon provides high-quality service to global customers.
Higon also provide 0.55% guarantee for PID of modules



Half Cell Technology

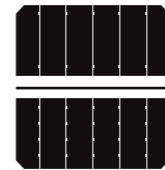
Reducing current and loose:

Current density is reduced by 50%, internal power loss is reduced by 25%, and rated output power is increased.



Full-cell
 $P=I^2R$

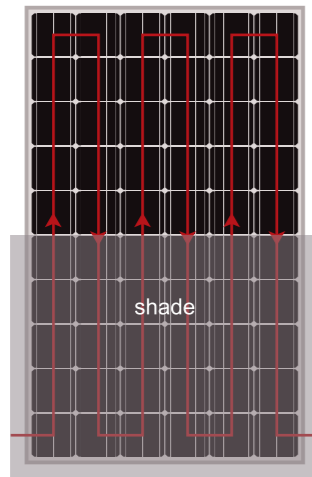
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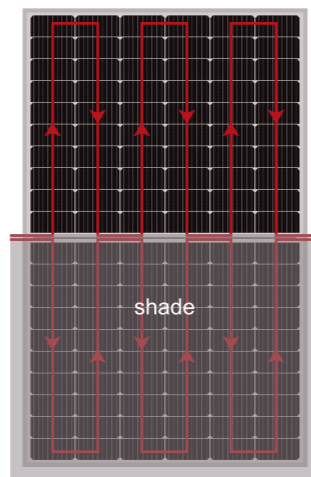
Half-cell
 $P=(I/2)^2R$

Low shading loss:

The split-type module design effectively reduces the current mismatch caused by shadow, and the power output is enhanced.



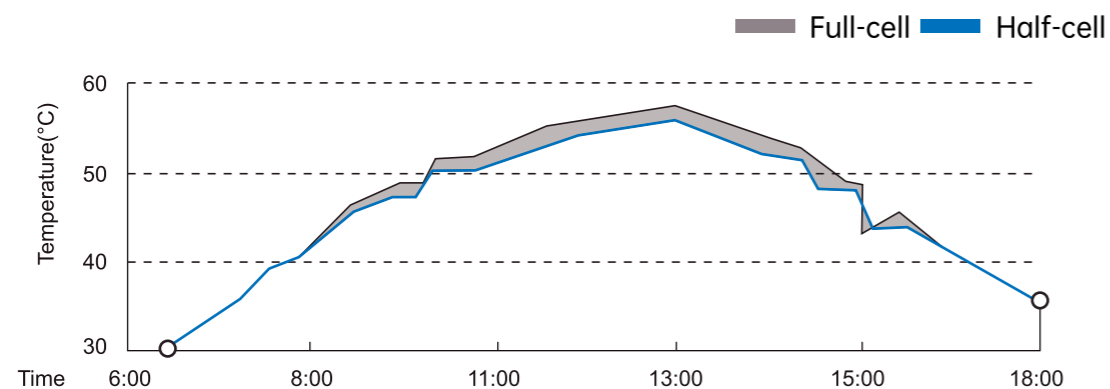
Full-cell: No power output



Half-cell: 50% power output

Lower working temperature:

The working temperature of the half-cell modules is 2-3°C lower than the full-cell modules, greatly ensuring the safe working environment.

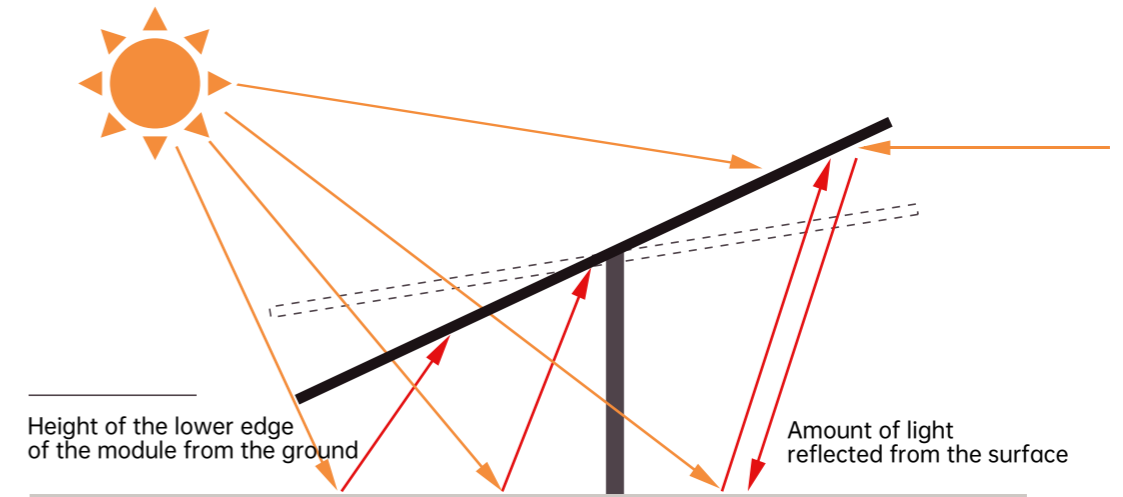


Working Temperature of Full-cell & Half-cell Modules

Bifacial Technology

Double-sided generation, powerfully energy boost:

Fully utilizing the reflection and scattering of light, applying to highly reflective scenes such as water, sand, grass and white painted ground. With various types of brackets, more power is obtained, under lower kilowatt-hour costs.



Backside gain Water 4~8%



Grass 6~10%



Sand 8~12%



Snow 15~19%



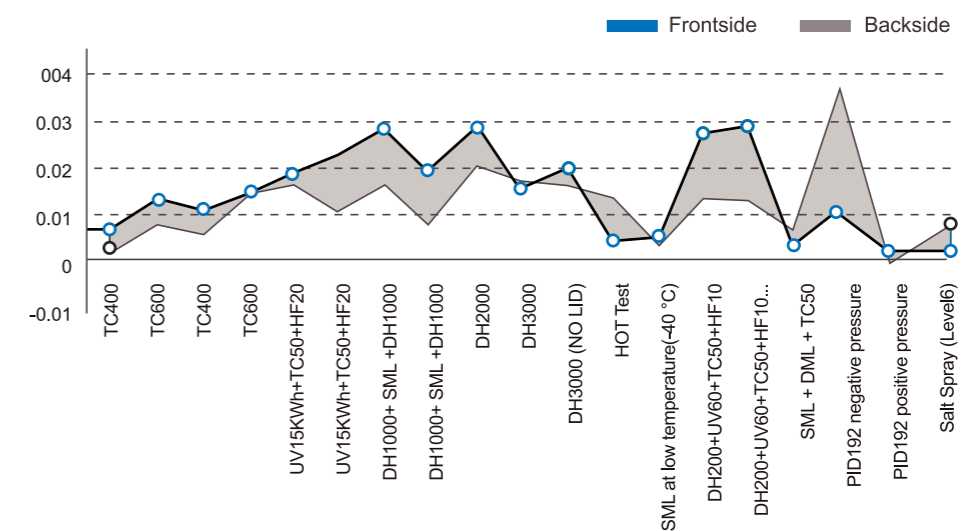
White paint 17~21%

Note: Using the tracker as an example

High reliability:

Bifacial modules demonstrate superior long-term reliability, higher quality, and create more value.

Long-term reliability of bifacial modules

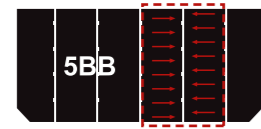


Note: Using the 182mm HIGON BLACK bifacial module as example

MBB Technology

Reducing string and increasing energy:

An increase in the number of busbar shortens the lateral current collection path, decreases the components R_s (series resistance), and increases the output power.



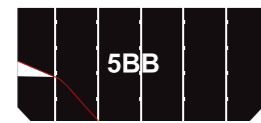
Common Cell



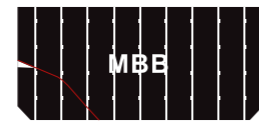
MBB Cell

Reducing busbar loss:

The busbars are more densely distributed, reducing loss.



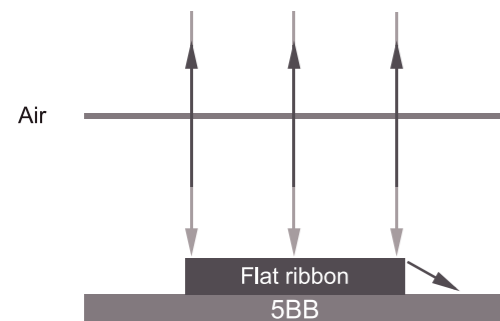
Common Cell



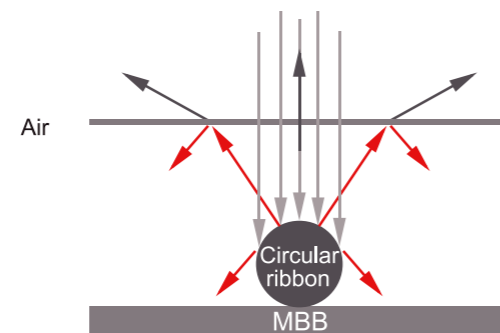
MBB Cell

Improving efficiency:

The circular ribbon reduces the shading area and repeatedly reflects the incident light to enhance the power generation.



Common Cell

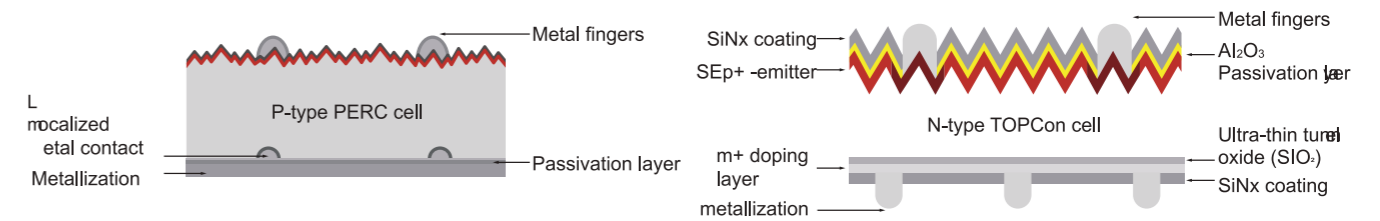


MBB Cell

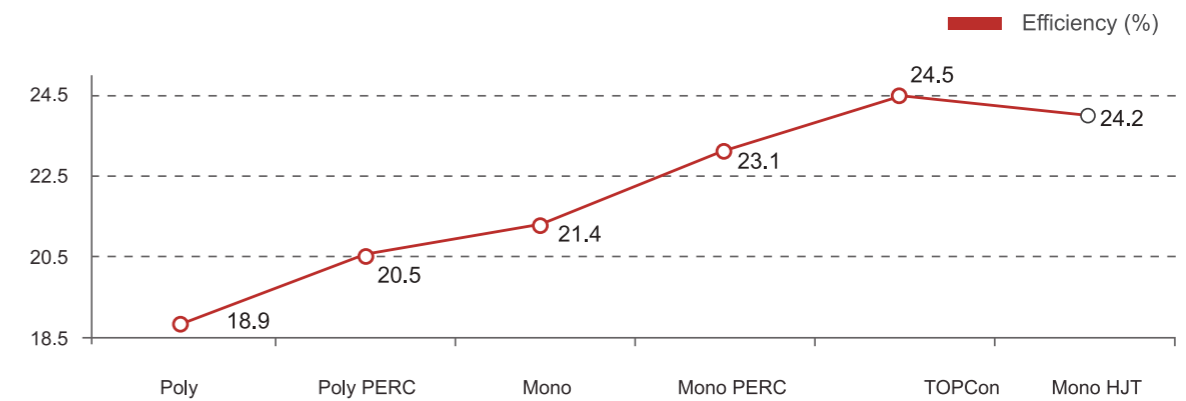
N-type Technology

Multi-layer energy enhancement and efficiency iteration:

TOPCon cell adopts a new surface passivation technology, which effectively reduces surface compound and metal contact compound, and has an area for efficiency improvement, and the efficiency of Higon N-type has exceeded 24.4%

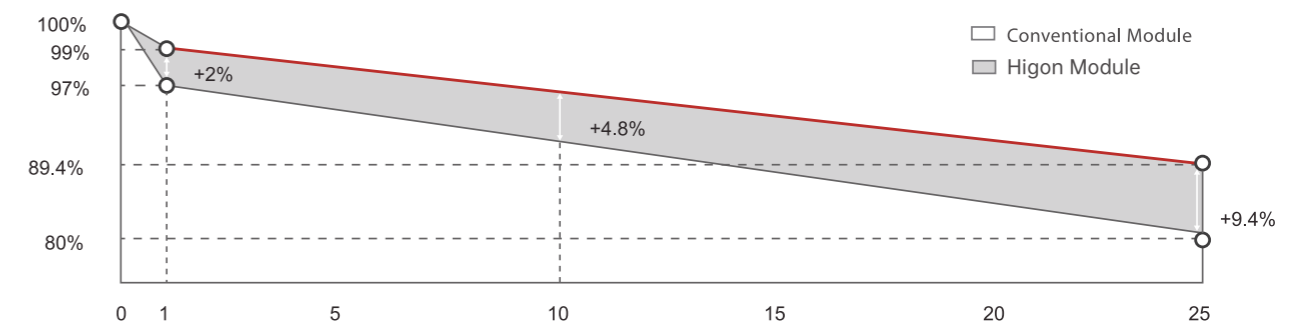


Efficiencies of different cell technologies



Excellent warranty:

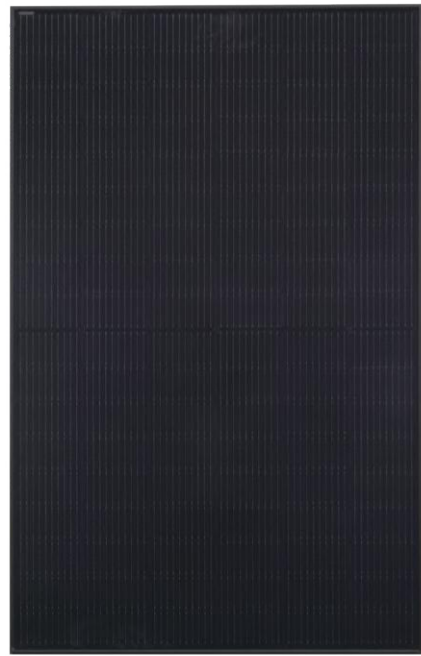
Compared with conventional modules, TOPCon modules have 2% lower first-year attenuation and 0.31% lower annual attenuation than conventional modules, resulting in higher power generation and higher revenue for customers.



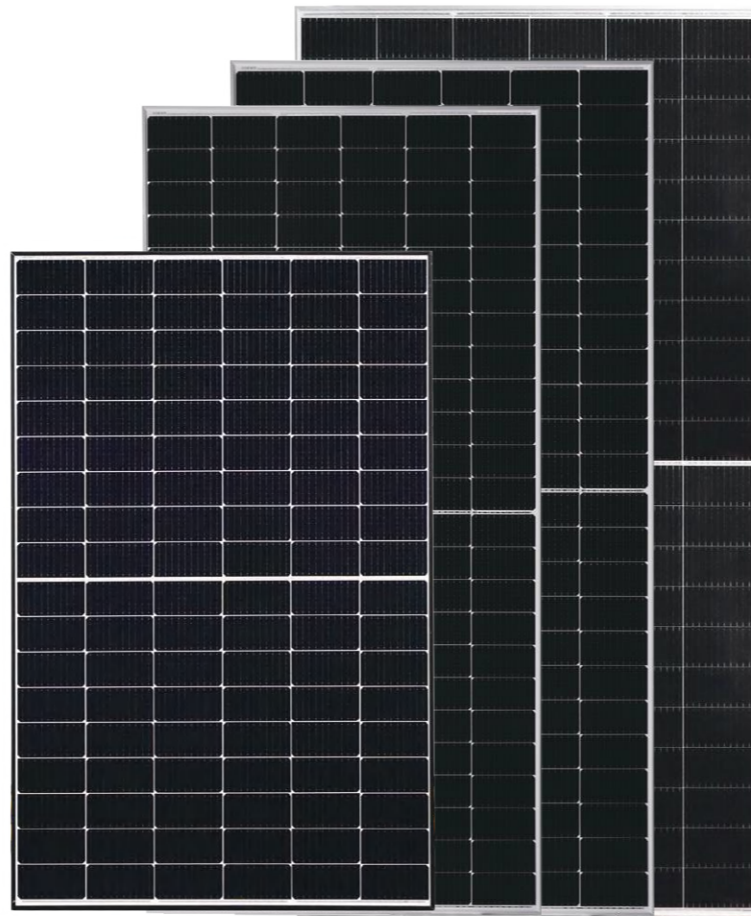
HIGON BLACK SERIES

HIGON WHITE SERIES

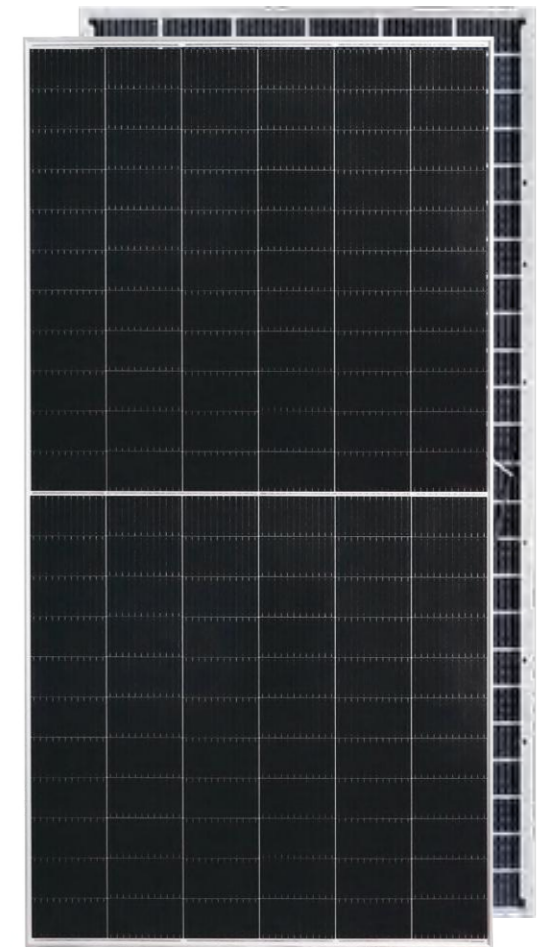
HIGON BIGGLASS SERIES



420W+
HIGON BLACK



560W+
HIGON WHITE

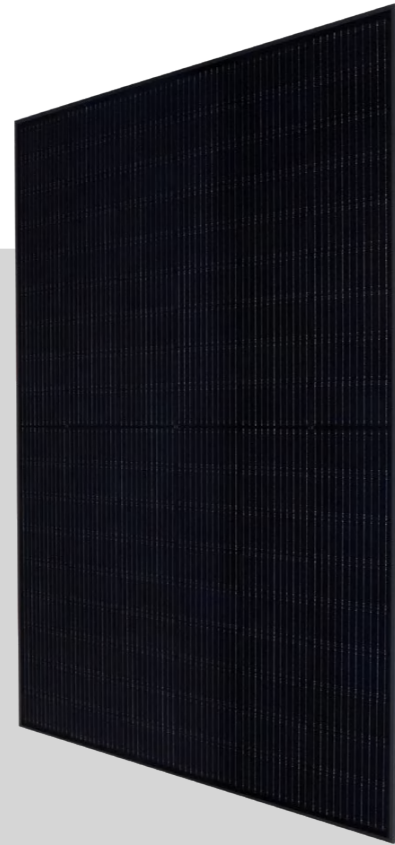


680W+
HIGON BIGGLASS

HIGON BLACK

HG-54HC10 405-425Wp

MONOFACIAL
HALF CELL PERC



More energy yield over the same area even on cloudy or hot days



Regional value creation, made without lead and produced using 100% renewable energy.



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance



Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

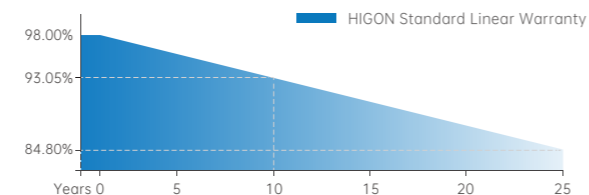
Higon Reliable Quality

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspection ensuring defect-free modules



Performance Warranty

- 15 Years Product Warranty
- 25 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Potential Induced Degradation(PID) Less Than
- 5.5% Annual Degradation Over 25 Years



THE IDEAL SOLUTION FOR:

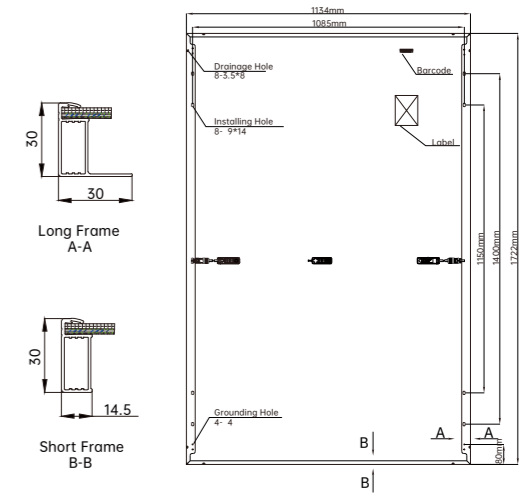


Commercial Rooftop
Residential Rooftop

HIGON BLACK HGXXX-54HC10(XXX=405-425Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182mm
No. of Cells	108 (6×18)
Dimensions	1722×1134×30mm
Weight	20.8 kg
Front Glass	High transparency solar glass 3.2mm
Cable	4.0mm ² , 300mm/1200mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

POWER CLASS	405		410		415		420		425	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition										
Maximum Power(Pmax/W)	405	306.6	410	310.3	415	314.1	420	317.9	425	321.7
Operating Voltage(Vmp/V)	31.16	28.90	31.31	29.04	31.46	29.18	31.61	29.32	31.76	29.46
Operating Current(Imp/A)	13.00	10.60	13.09	10.68	13.19	10.76	13.29	10.84	13.39	10.92
Open-Circuit Voltage(Voc/V)	36.93	34.86	37.08	35.00	37.23	35.15	37.38	35.29	37.53	35.43
Short-Circuit Current(Isc/A)	13.61	10.90	13.70	10.97	13.80	11.05	13.89	11.12	13.99	11.19
Module Efficiency(%)	20.7		21.0		21.3		21.5		21.8	

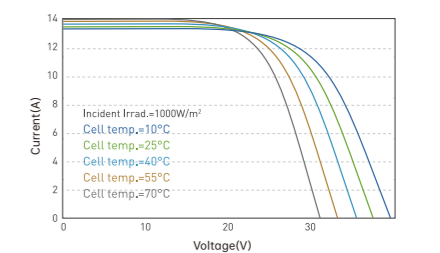
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Temperature Characteristics

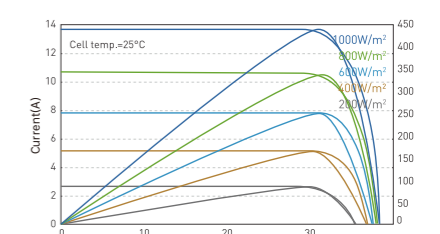
Nominal Module Operating Temperature (NMOT)	43 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.05%/°C

Graphs

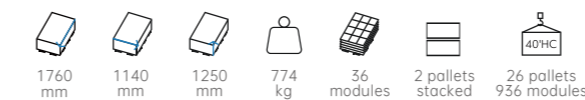
I-V Curve at different Temperature (420W)



I-V/P-V Curve at different Irradiation (420W)



Packing Configuration



Notice: All data and specifications are preliminary and subject to change without notice.

Contact Us for More Information

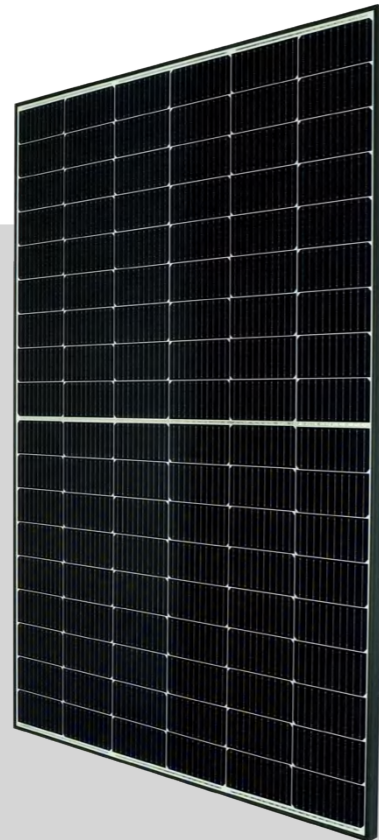
web: www.higonsolar.com email: info@higonsolar.com

TASTE THE SUN

HIGON WHITE

HG-54HC10 405-425 Wp

MONOFACIAL
HALF CELL PERC



More energy yield over the same area even on cloudy or hot days



Regional value creation, made without lead and produced using 100% renewable energy.



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance



Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Higon Reliable Quality

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspection ensuring defect-free modules

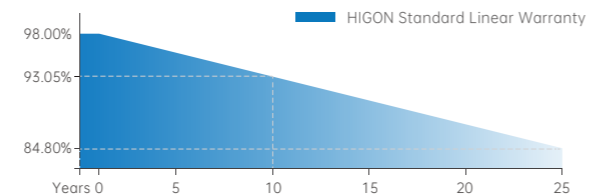


THE IDEAL SOLUTION FOR:



Performance Warranty

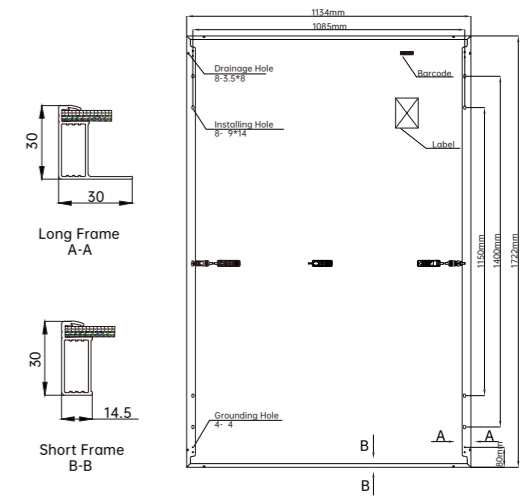
- 15 Years Product Warranty
- 25 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Potential Induced Degradation(PID) Less Than
- 5.5% Annual Degradation Over 25 Years



HIGON WHITE HGXXX-54HC10(XXX=405-425Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182mm
No. of Cells	108 (6×18)
Dimensions	1722×1134×30mm
Weight	20.8 kg
Front Glass	High transparency solar glass 3.2mm
Cable	4.0mm ² , 300mm/1200mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

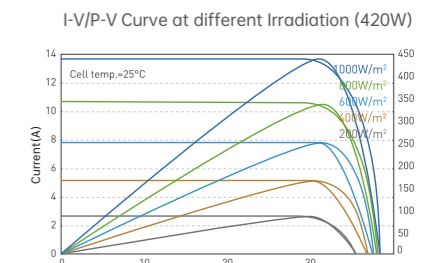
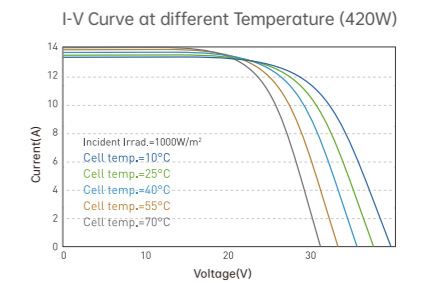
POWER CLASS	405		410		415		420		425	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition										
Maximum Power(Pmax/W)	405	306.6	410	310.3	415	314.1	420	317.9	425	321.7
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Module Efficiency(%)	20.7		21.0		21.3		21.5		21.8	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

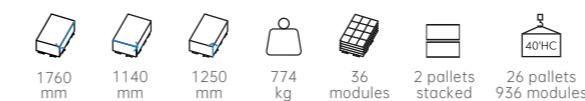
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	43 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.05%/°C

Graphs



Packing Configuration



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TASTE THE SUN

HIGON WHITE

HG-72HC8 450-470Wp

MONOFACIAL
HALF CELL PERC



More energy yield over the same area even on cloudy or hot days



Regional value creation, made without lead and produced using 100% renewable energy.



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Optimized system performance due to module level current sorting



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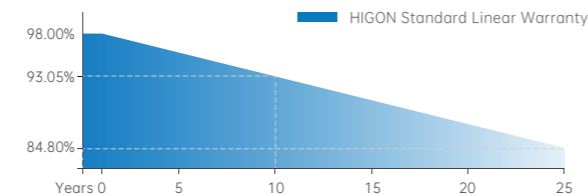
Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Higon Reliable Quality

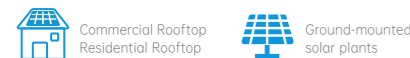
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- Fully automatic facility and world-class technology
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- Long term reliability tests
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Performance Warranty

- 15 Years Product Warranty
- 25 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Potential Induced Degradation(PID) Less Than
- 5.5% Annual Degradation Over 25 Years



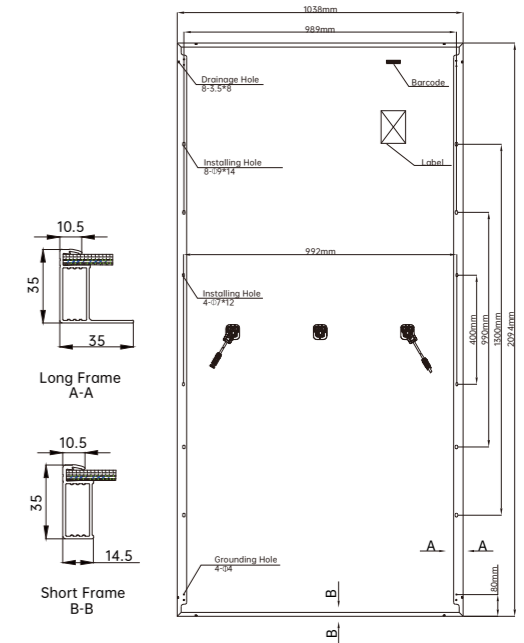
THE IDEAL SOLUTION FOR:



HIGON WHITE HGXXX-72HC8(XXX=450-470Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 166mm
No. of Cells	144 (6×24)
Dimensions	2094×1038×35mm
Weight	23.3 kg
Front Glass	High transparency solar glass 3.2mm
Cable	4.0mm ² , 300mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	20A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

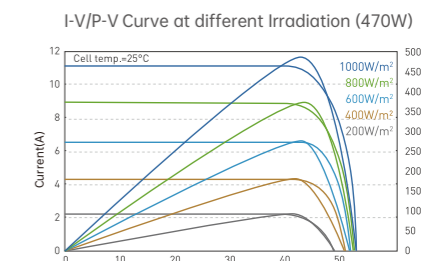
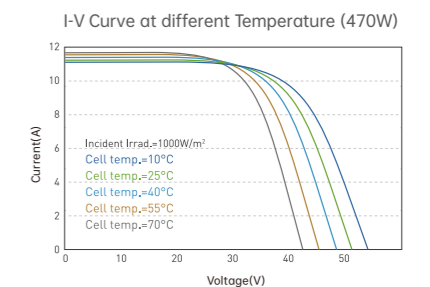
POWER CLASS	450		455		460		465		470	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition										
Maximum Power(Pmax/W)	450	328.6	455	332.4	460	336.2	465	340.0	470	343.9
Operating Voltage(Vmp/V)	42.10	38.42	42.41	38.71	42.76	39.00	43.10	39.29	43.44	39.58
Operating Current(Imp/A)	10.69	8.55	10.73	8.59	10.76	8.62	10.79	8.65	10.82	8.69
Open-Circuit Voltage(Voc/V)	49.84	46.08	50.10	46.34	50.39	46.60	50.68	46.86	50.96	47.12
Short-Circuit Current(Isc/A)	11.34	9.17	11.37	9.19	11.40	9.22	11.43	9.25	11.47	9.27
Module Efficiency(%)	20.7		20.9		21.2		21.4		21.6	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

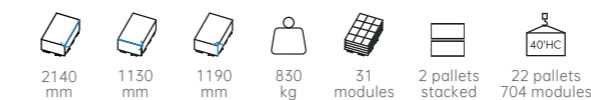
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Nominal Module Operating Temperature (NMOT)	43 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.050%/°C 0.05%/°C

Graphs



Packing Configuration



Notice: All data and specifications are preliminary and subject to change without notice.

Contact Us for More Information

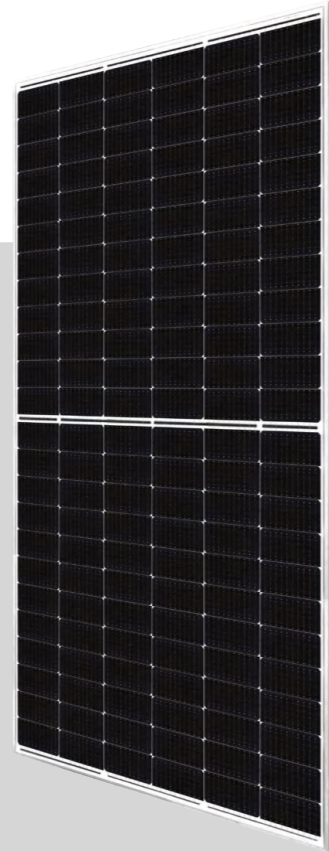
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TASTE THE SUN

HIGON WHITE

HG-72HC10 540-560Wp

MONOFACIAL
HALF CELL PERC



More energy yield over the same area even on cloudy or hot days



Regional value creation, made without lead and produced using 100% renewable energy.



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance



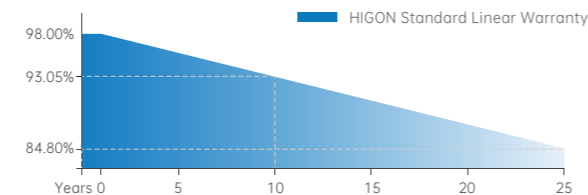
Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Higon Reliable Quality

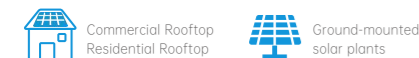
- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspection ensuring defect-free modules

Performance Warranty

- 15 Years Product Warranty
- 25 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Potential Induced Degradation (PID) Less Than
- 5.5% Annual Degradation Over 25 Years



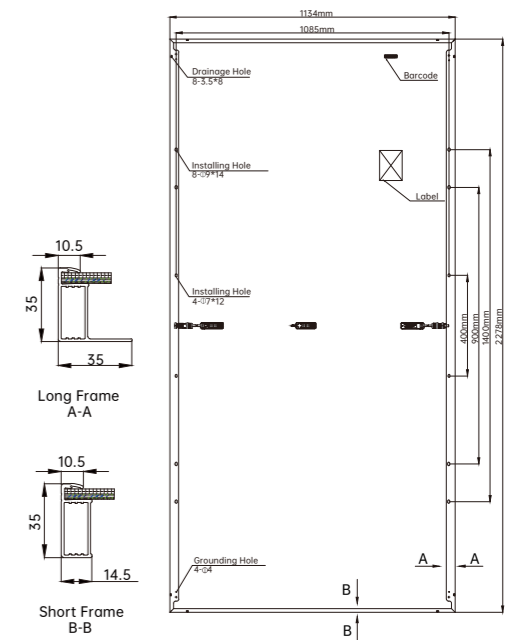
THE IDEAL SOLUTION FOR:



HIGON WHITE HGXXX-72HC10(XXX=540-560Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182mm
No. of Cells	144 (6×24)
Dimensions	2278×1134×35mm
Weight	27.8 kg
Front Glass	High transparency solar glass 3.2mm
Cable	4.0mm ² , 300mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

POWER CLASS	540		545		550		555		560	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition										
Maximum Power(Pmax/W)	540	408.6	545	412.4	550	416.2	555	420.0	560	423.8
Operating Voltage(Vmp/V)	42.06	39.01	42.35	39.28	42.64	39.55	42.93	39.82	43.22	40.09
Operating Current(Imp/A)	12.84	10.47	12.87	10.50	12.90	10.52	12.93	10.55	12.96	10.57
Open-Circuit Voltage(Voc/V)	49.75	46.96	49.98	47.18	50.22	47.40	50.45	47.62	50.68	47.85
Short-Circuit Current(Isc/A)	13.63	10.92	13.66	10.94	13.70	10.97	13.73	10.99	13.76	11.02
Module Efficiency(%)	20.9		21.1		21.3		21.5		21.7	

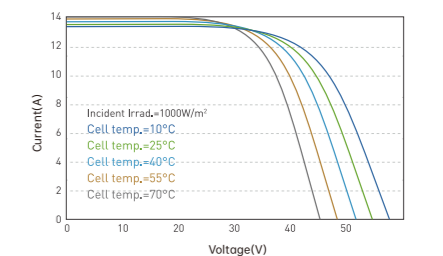
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Temperature Characteristics

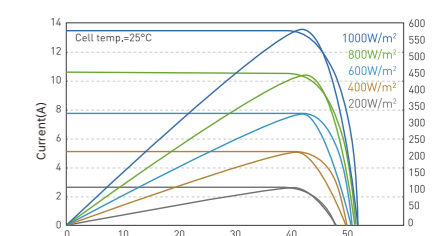
Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Graphs

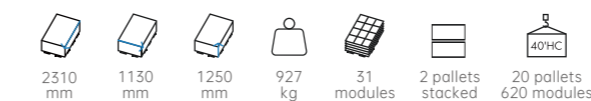
I-V Curve at different Temperature (560W)



I-V/P-V Curve at different Irradiation (560W)



Packing Configuration



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Contact Us for More Information

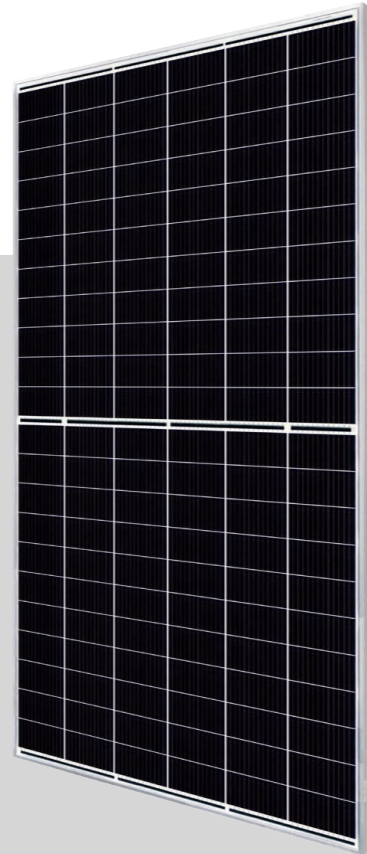
web: www.higonsolar.com email: info@higonsolar.com

TASTE THE SUN

HIGON WHITE

HG-66HC12 660-680Wp

MONOFACIAL
HALF CELL PERC



G12 CELL Made by G12 solar cell, larger size silicon wafer module can reduce the cost of PV support bracket, cable, land upto 20%.

Regional value creation, made without lead and produced using 100% renewable energy.

PID Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free

Optimized system performance due to module level current sorting

Highly transparent self-cleaning glass brings additional yield and easy maintenance

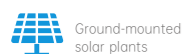
Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Higon Reliable Quality

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspection ensuring defect-free modules

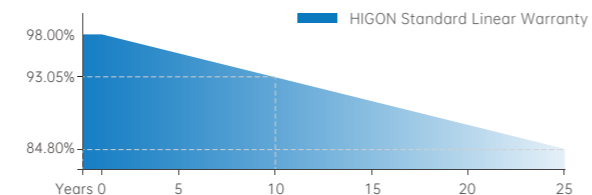


THE IDEAL SOLUTION FOR:



Performance Warranty

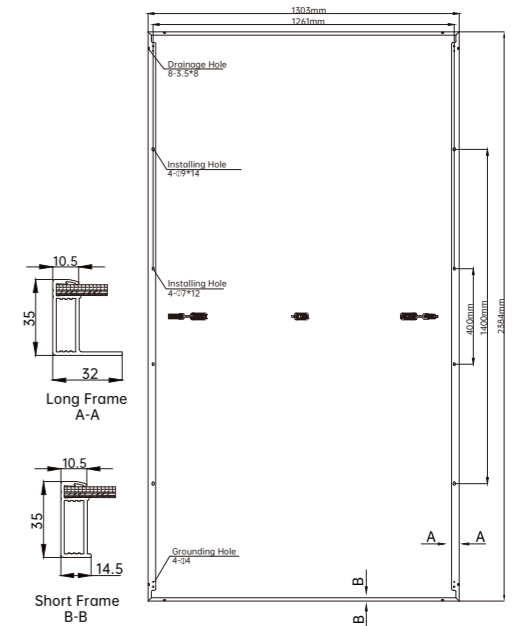
- 15 Years Product Warranty
- 25 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Potential Induced Degradation (PID) Less Than
- 5.5% Annual Degradation Over 25 Years



HIGON WHITE HGXXX-66HC12(XXX=660-680Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 210mm
No. of Cells	132 (6×22)
Dimensions	2384×1303×35mm
Weight	34.2 kg
Front Glass	High transparency solar glass 3.2mm
Cable	4.0mm ² , 300mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

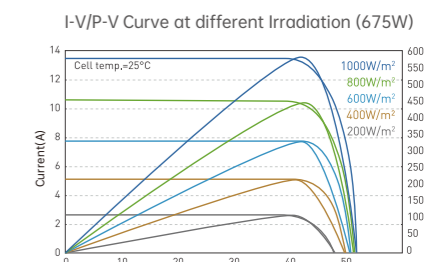
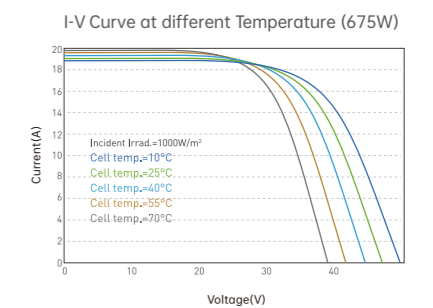
POWER CLASS	660		665		670		675		680	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition										
Maximum Power(Pmax/W)	660	499.4	665	503.1	670	506.9	675	510.7	680	423.8
Operating Voltage(Vmp/V)	37.80	35.26	38.00	35.45	38.20	35.64	38.40	35.82	38.40	40.09
Operating Current(Imp/A)	17.46	14.16	17.50	14.19	17.54	14.22	17.58	14.26	17.58	10.57
Open-Circuit Voltage(Voc/V)	45.60	42.96	45.80	43.14	46.00	43.33	46.20	43.52	46.00	47.85
Short-Circuit Current(Isc/A)	18.55	14.96	18.60	15.00	18.60	15.04	18.70	15.08	18.65	11.02
Module Efficiency(%)	21.2		21.4		21.6		21.7		21.9	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

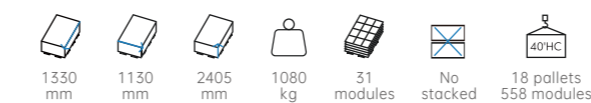
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45 ± 2 °C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.050%/°C 0.050%/°C

Graphs



Packing Configuration



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Contact Us for More Information

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TASTE THE SUN

HIGON BIGLASS

HG-72HC10B 540-560Wp

BIFACIAL
HALF CELL PERC



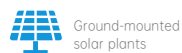
- More energy yield over the same area even on cloudy or hot days
- Regional value creation, made without lead and produced using 100% renewable energy.
- Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free
- Optimized system performance due to module level current sorting
- Highly transparent self-cleaning glass brings additional yield and easy maintenance
- Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Higon Reliable Quality

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspection ensuring defect-free modules

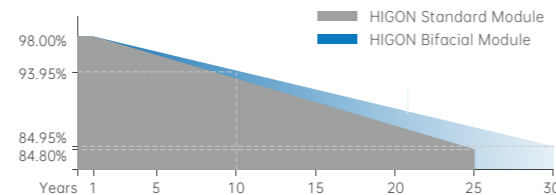


THE IDEAL SOLUTION FOR:



Performance Warranty

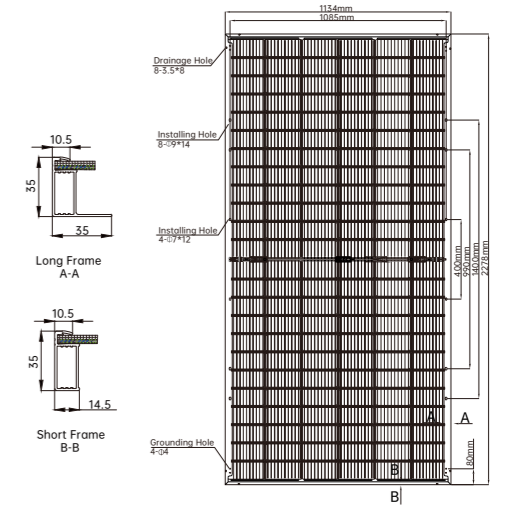
- 15 Years Product Warranty
- 30 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Potential Induced Degradation (PID) Less Than
- 4.5% Annual Degradation Over 30 Years



HIGON BIGLASS HGXXX-72HC10B(XXX=540-560Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182mm
No. of Cells	144 (6×24)
Dimensions	2278×1134×35mm
Weight	32.3 kg
Front Glass	High transparency solar glass 2.0mm
Back Glass	High transparency solar glass 2.0mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

POWER CLASS	540		545		550		555		560	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	540	408.6	545	412.4	550	416.2	555	420.0	560	423.8
Operating Voltage(Vmp/V)	41.45	38.45	41.70	38.67	41.93	38.90	42.18	39.12	42.43	39.32
Operating Current(Imp/A)	13.03	10.62	13.07	10.66	13.12	10.70	13.16	10.74	13.20	10.78
Open-Circuit Voltage(Voc/V)	49.24	46.48	49.52	46.74	49.8	47.01	50.08	47.28	50.36	47.55
Short-Circuit Current(Isc/A)	13.78	11.04	13.83	11.08	13.88	11.12	13.93	11.16	13.98	11.21
Module Efficiency(%)	20.9		21.1		21.3		21.5		21.7	

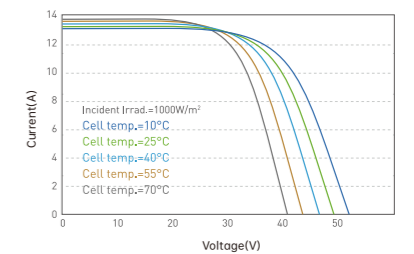
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
 NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Different Rearside Power Gain Referene to 540W Front

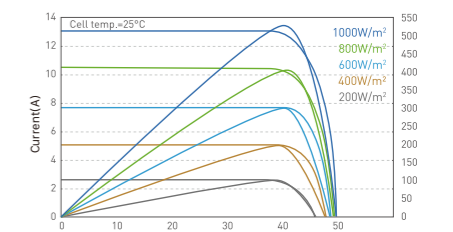
Rearside Power Gain	5%	15%	25%
Maximum Power(Pmax/W)	567.0	621.0	675.0
Operating Voltage(Vmp/V)	41.8	41.8	41.9
Operating Current(Imp/A)	13.59	14.88	16.18
Open-Circuit Voltage(Voc/V)	49.5	49.5	49.6
Short-Circuit Current(Isc/A)	14.58	15.97	17.36
Module Efficiency(%)	21.9	24.0	26.1

Graphs

I-V Curve at different Temperature (560W)



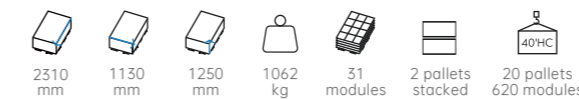
I-V/P-V Curve at different Irradiation (560W)



Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Packing Configuration



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Contact Us for More Information

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TASTE THE SUN

HIGON BIGLASS

HG-66HC12B 660-680Wp

BIFACIAL
HALF CELL PERC



Made by G12 solar cell, larger size silicon wafer module can reduce the cost of PV support bracket, cable, land upto 20%.



Regional value creation, made without lead and produced using 100% renewable energy.



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance



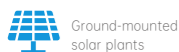
Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Higon Reliable Quality

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspection ensuring defect-free modules

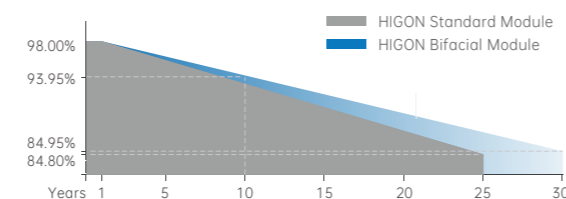


THE IDEAL SOLUTION FOR:



Performance Warranty

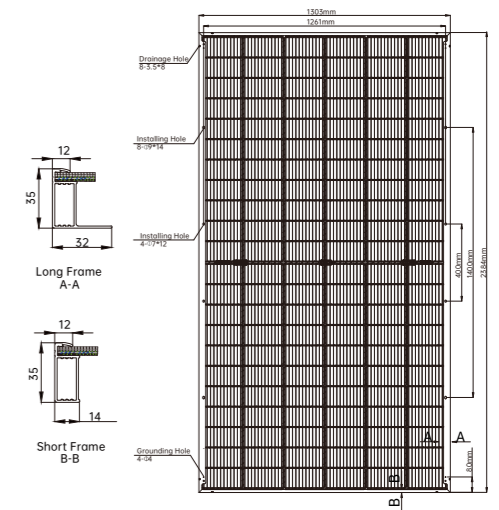
- 15 Years Product Warranty
- 30 Years Linear Power Warranty
- 2% Degradation in 1st year
- 0.55% Potential Induced Degradation(PID) Less Than
- 4.5% Annual Degradation Over 30 Years



HIGON BIGLASS HGXXX-66HC12B(XXX=660-680Wp)

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182mm
No. of Cells	132 (6×22)
Dimensions	2384×1303×35mm
Weight	38.7 kg
Front Glass	High transparency solar glass 2.0mm
Back Glass	High transparency solar glass 2.0mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

POWER CLASS	660		665		670		675		680	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition										
Maximum Power(Pmax/W)	660	499.4	665	503.1	670	506.9	675	510.7	680	514.5
Operating Voltage(Vmp/V)	38.00	35.45	38.20	35.64	38.40	35.82	38.60	36.01	38.80	36.20
Operating Current(Imp/A)	17.37	14.09	17.41	14.12	17.45	14.15	17.49	14.18	17.53	14.21
Open-Circuit Voltage(Voc/V)	45.80	43.14	46.00	43.33	46.20	43.52	46.40	43.71	46.60	43.90
Short-Circuit Current(Isc/A)	18.31	14.76	18.36	14.80	18.41	14.84	18.46	14.88	18.51	14.92
Module Efficiency(%)	21.2		21.4		21.6		21.7		21.9	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%.

Different Rearside Power Gain Referene to 670W Front

Rearside Power Gain	5%	10%	20%
Maximum Power(Pmax/W)	704	737	804
Operating Voltage(Vmp/V)	38.70	38.70	38.70
Operating Current(Imp/A)	18.20	19.05	20.78
Open-Circuit Voltage(Voc/V)	45.80	45.80	45.80
Short-Circuit Current(Isc/A)	19.48	20.41	22.26
Module Efficiency(%)	22.7%	23.7%	25.9%

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45 ± 2 °C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.050%/°C 0.050%/°C

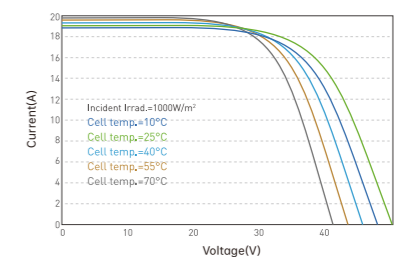
Packing Configuration



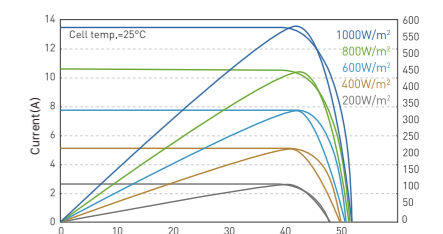
Notice: All data and specifications are preliminary and subject to change without notice.

Graphs

I-V Curve at different Temperature (675W)



I-V/P-V Curve at different Irradiation (675W)



Contact Us for More Information

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TASTE THE SUN

C&I Projects



USA
System Capacity: 2MW



Bulgaria
System Capacity: 600kW



Poland
System Capacity: 350kW



Switzerland
System Capacity: 200kW



South Africa
System Capacity: 580kW

Residential Projects



Sweden
System Capacity: 30kW



Austria
System Capacity: 6kW



Poland
System Capacity: 10kW

Netherlands
System Capacity: 10kW





HIG  **N**

SOLAR

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