

40 Patents+
certification

30 Years power
warranty

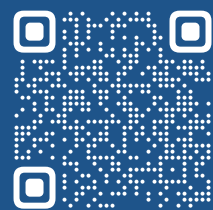
12 Years of PV module
manufacturing experience

5 GW production capacity of
a full range of PV modules

4 Continents marketing
service center

3 Global
manufacturing bases

1 Integrated and
coordinated development



SCAN TO GET E-CATALOG

HONOR SOLAR TECHNOLOGY(CHANG SHU)CO.,LTD.

Tel: +86-158 8813 1954

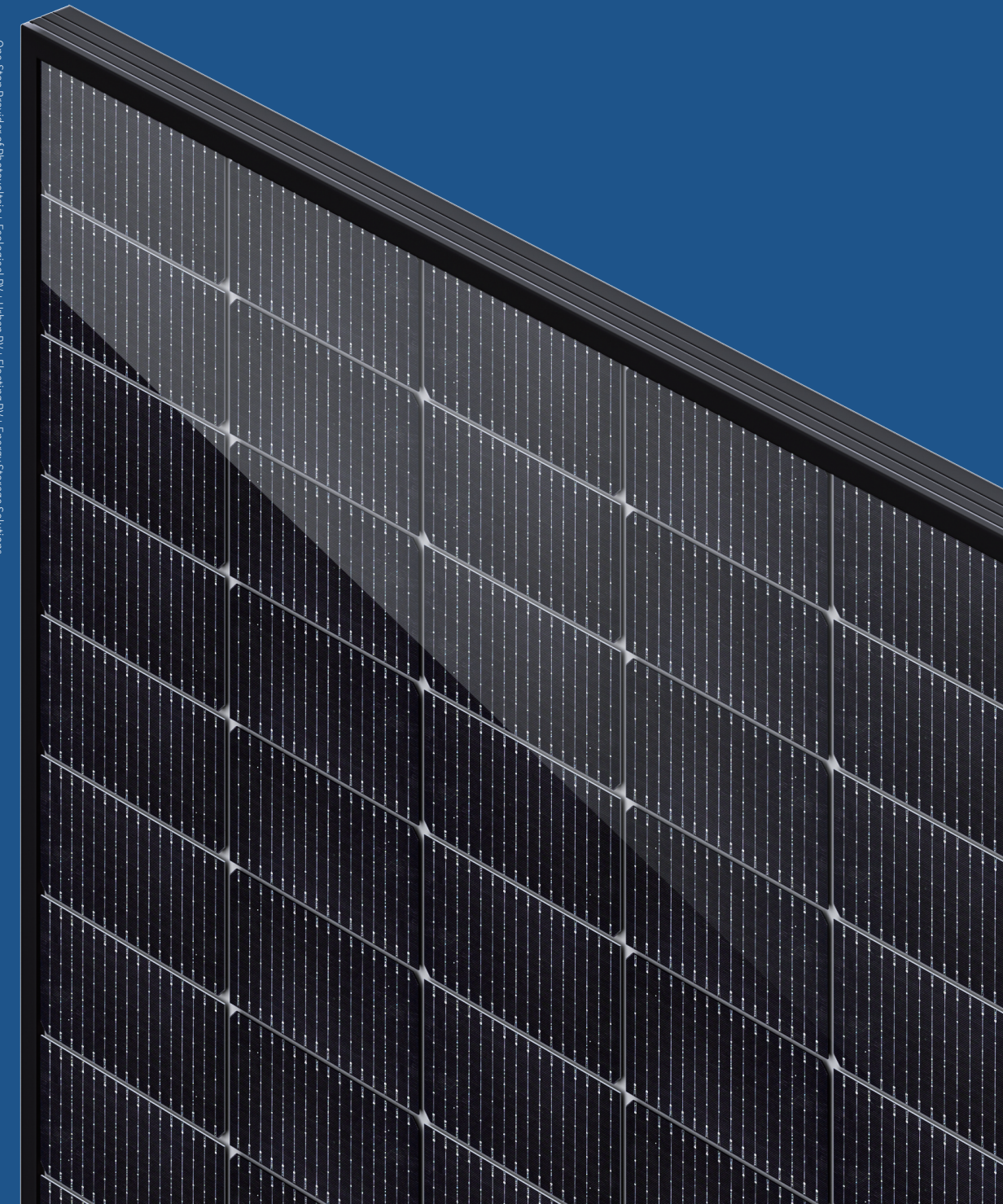
Web: www.honorsolar.cn

E-mail: sales@honorsolar.cn

PV MODULE

PRODUCT BROCHURE

One-Stop Provider of Photovoltaic + Ecological PV + Urban PV + Floating PV + Energy Storage Solutions



01-02 Company Development

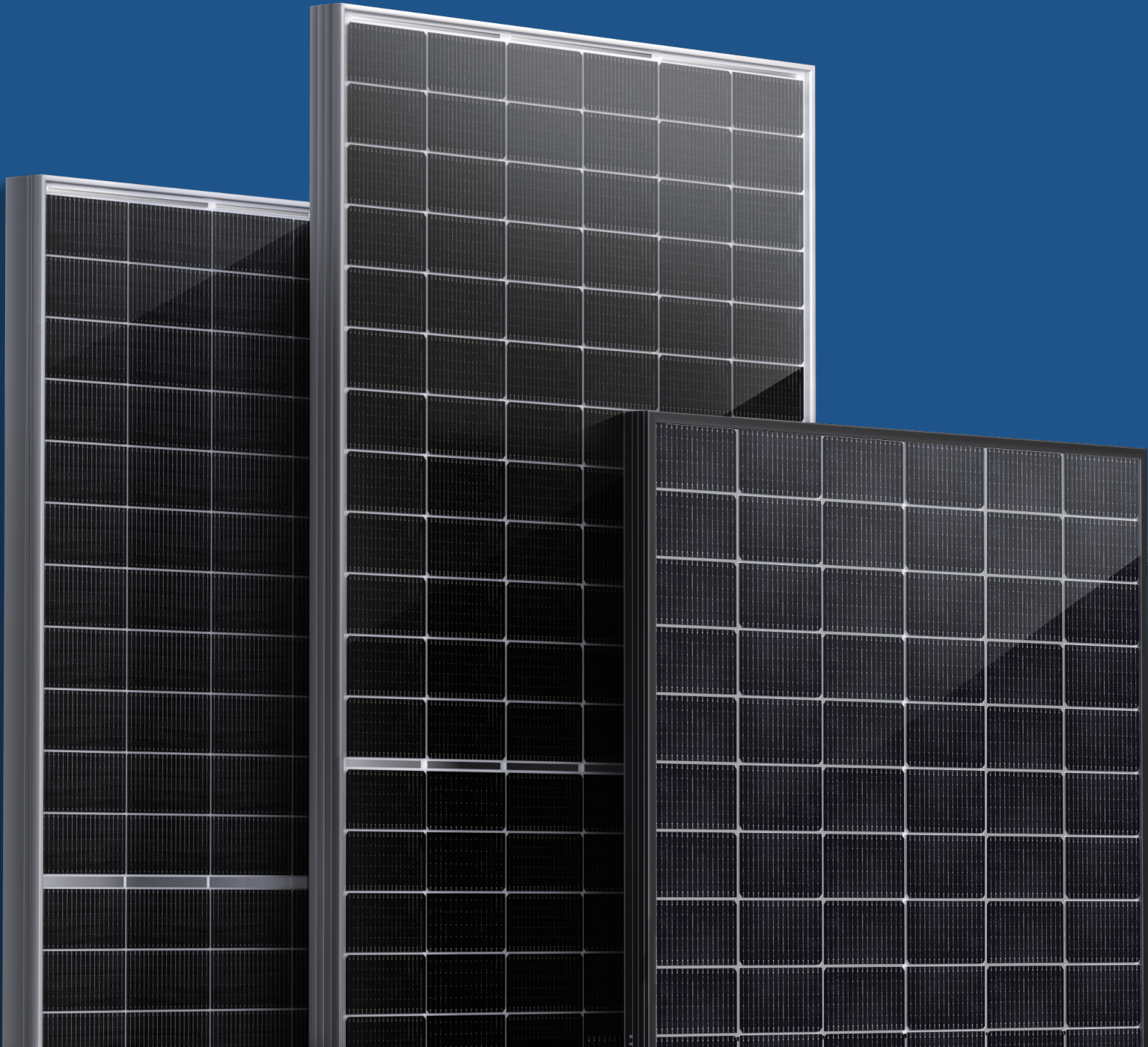
03-04 Global Layout

05-08 Qualification Certificates

 09-28  TOPCon-Series

29-34  HJT-Series

35-36 Partner



COMPANY DEVELOPMENT ROADMAP

2012



Establishment of the Company

2017



Establishment of a Warehouse in the Netherlands

2018



Establishment of Office in Germany

2021



First PV Module of the 5GW Photovoltaic Project Successfully Rolled Off the Production Line

2023



Invention Patent for a Film Laying and Fixing Device for Photovoltaic Modules

2024



Won the "Megawatt-Level Jade Award" at the 2024 Shanghai SNEC Exhibition

Founded

2012

Global Factory Scale

20000 m²

Employees

200

Capacity of production

3 GW

Total Investment

200 Million RMB

GLOBAL LAYOUT

Honor Solar has established a comprehensive domestic and international sales network, with products exported to numerous countries and regions. By 2024, Honor Solar has achieved a production capacity of 5 GW for high-efficiency modules and has become a well-known brand in the photovoltaic industry

Finland
Germany
China

Honor Solar

Brazil

Australia

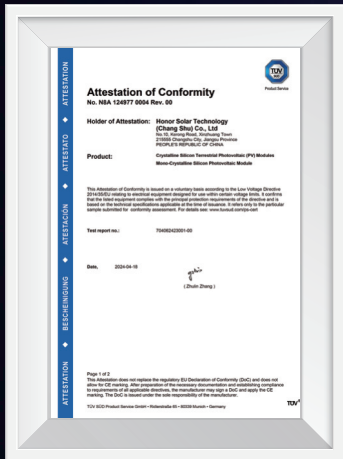
Honor Solar Technology Co., Ltd. is a technology enterprise specializing in the research, development, manufacturing, and sales of high-efficiency solar cells, photovoltaic modules, and system applications, as well as in the investment, construction, and operation of power stations. With 12 years of development experience, the company possesses mature technology and product competitiveness.


Suzhou
Manufacturing and R&D Center


Germany
Office


Finland
Warehouse

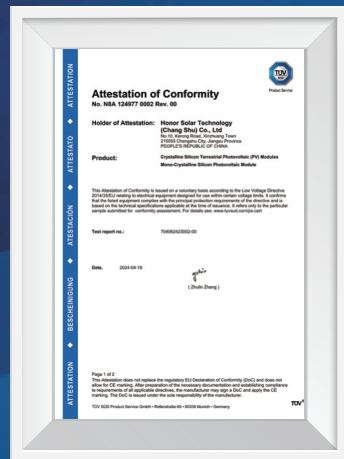

Brazil
Business Office



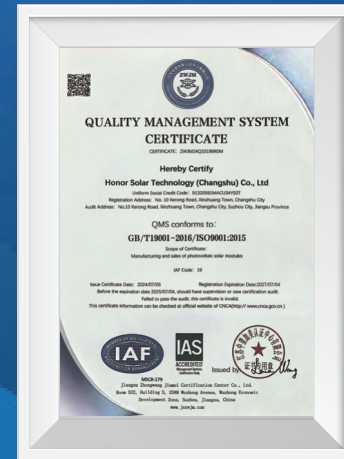
CE



TUV SUD



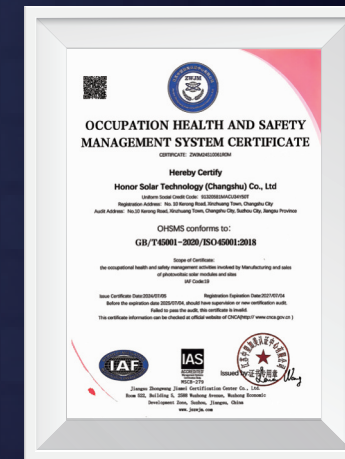
Electrical Equipment



ISO9001



ISO14001



ISO45001



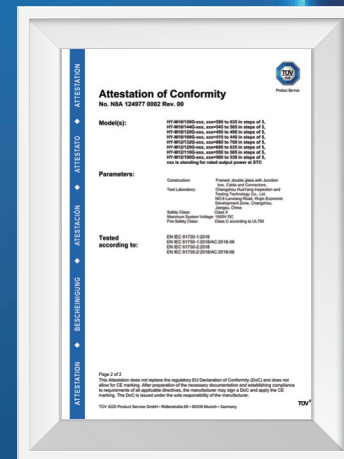
Product Certification



Invention Patent



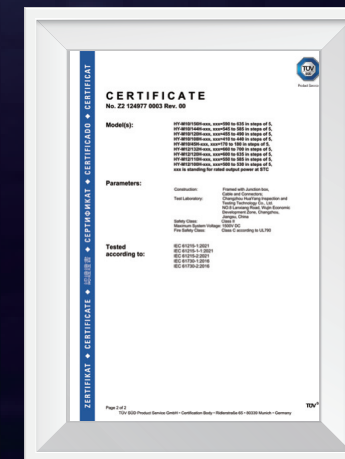
Quality Certification



EN IEC 61730



Environmental Management
System Certification



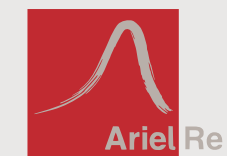
Photovoltaic
Module Certification

QUALIFICATION
CERTIFICATES

GLOBAL : AFTER-SALES SUPPORT

HonorSolar has a comprehensive product certification system, and all products are certified by internationally recognized authoritative institutions

ADDITIONAL INSURANCE



Honor Solar always prioritizes the customer's purchasing and usage experience by striving to provide timely product supply and comprehensive pre-sales and after-sales services. Customers purchasing Honor Solar's products can benefit from additional insurance services offered by globally renowned third-party professional insurance providers, ensuring continuous service protection for our clients.



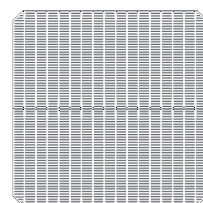
Half-Cell
TOPCon
PV Series

Honor Solar
**HIGH-EFFICIENCY
N-TYPE TOPCON**
PV Module | Advantages

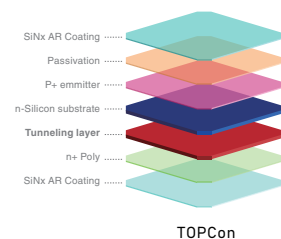
半片TOPCon
光伏组件系列
环宇高效 N 型 TOPCon 光伏组件 | 优势

SMBB Technology

- Reduce the current transmission distance, reduce grid line shielding, and improve optical utilization
- SMBB technology combined with round wire ribbon can increase the utilization rate of incident light by 70%, and increase the power by 1-1.5%



TOPCon SMBB



30 Power Warranty

≤ 1%

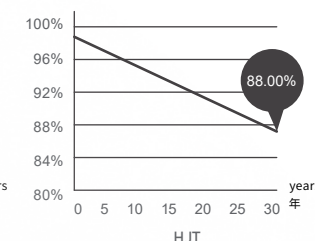
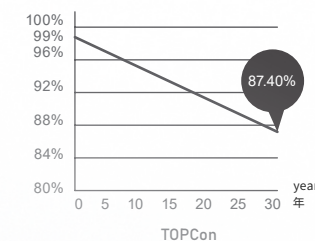
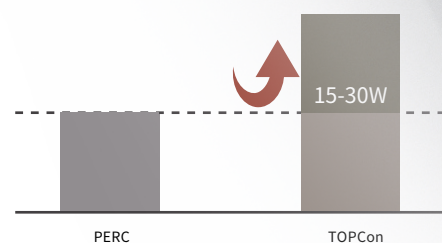
First year degradation

-0.4%

Linear degradation

Higher Power

- For the same module type, the power of N-type modules is 15-30W higher than that of P-type modules.

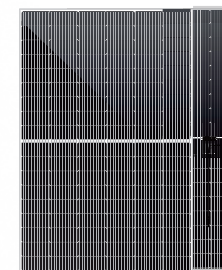


Better Power Guarantee

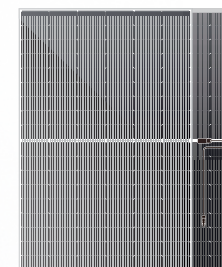
- N-type modules decay 1% in the first year (P-type 2%)
- Power warranty for 30 years (Double Glass)
- After 30 years, the output power is not lower than 87.4% of the initial power (Double Glass)

85%Bifaciality

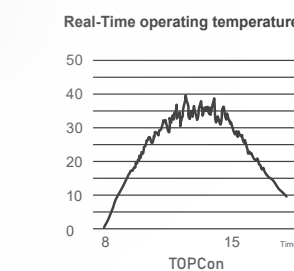
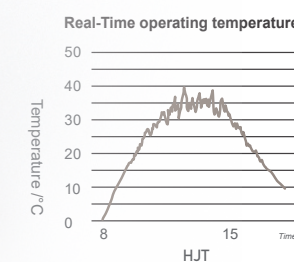
- For the same module type, the double-sided rate of N-type modules is 25% higher than that of P-type modules



PERC
60%Bifaciality



TOPCon(≥ 25%)
85%Bifaciality



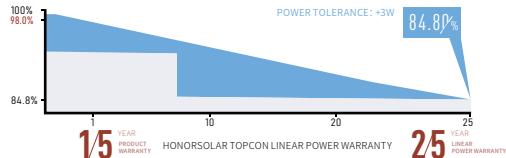
Lower Temperature Coefficient

- The temperature coefficient of P-type PV module is -0.35%/°C.
- N-type module optimized temperature coefficient to -0.29%/°C.
- Power generation is particularly prominent in high temperature environments



410^W - 440^W HY-M10 108H

182 mm M BB 108 pcs | TOPCon All-Black Mono-Crystalline Half-Cell PV Module



TOPCon Half-cell TOPCon cells with super multi-busbar technology

Fire Resistance Class A

Excellent low-light power generation performance

Enhanced mechanical load capacity

100% TEST MES 100% tested with a 25-year guaranteed system operation

PID PID resistance



HY-M10/108H
182 mm M BB 108 pcs TOPCon All-Black Mono-Crystalline Half-Cell PV Module

Electrical Specification (STC/NOCT)

MODEL	HY-M10/108H-410		HY-M10/108H-415		HY-M10/108H-420		HY-M10/108H-425		HY-M10/108H-430		HY-M10/108H-435		HY-M10/108H-440	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output-Pmax(W)	410	308	415	312	420	316	425	320	430	323	435	327	440	331
Maximum Power Voltage-Vmp(V)	32.20	29.06	32.39	29.21	32.59	29.34	32.78	29.50	32.98	29.63	33.18	29.76	33.38	29.89
Maximum Power Current-Imp(A)	12.75	10.61	12.83	10.68	12.91	10.76	12.99	10.83	13.06	10.91	13.12	10.98	13.18	11.05
Open-Circuit Voltage-Voc(V)	38.47	35.84	38.67	36.02	38.87	36.20	39.07	36.38	39.26	36.56	39.46	36.74	39.66	36.92
Short-Circuit Current-Isc(A)	13.61	11.23	13.69	11.29	13.78	11.36	13.86	11.42	13.94	11.49	14.01	11.56	14.08	11.63
Module Efficiency-ηm(%)	21.00	/	21.3	/	21.5	/	21.8	/	22.0	/	22.3	/	22.5	/
Power Tolerance(W)	(0,+5W)													
Maximum System Voltage(V)	1500Vdc (IEC / UL)													
Max Series Fuse Rating(A)	25A													
*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5														
*NOCT Testing Conditions: Irradiance 800 W/m², Cell Temperature 20°C, Wind Speed 1 m/s														

Structural Performance

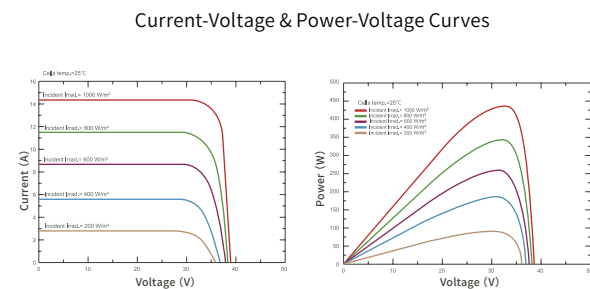
Cell Arrangement	TOPCon Mono-Crystalline 182mm(2x54pcs)
Dimensions of Module L*W*H	1722x1134x30mm
Weight	20.4 kg
Glass	Coated, 3.2mm tempered Glass, low iron
Frame	black
Junction Box	IP68
Cables	4.0mm ² ,30cm(+),30cm(-), length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

Temperature characteristics

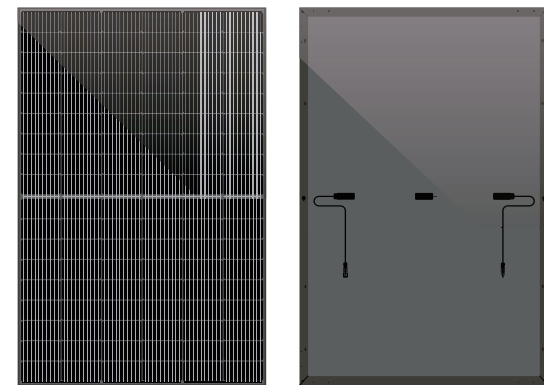
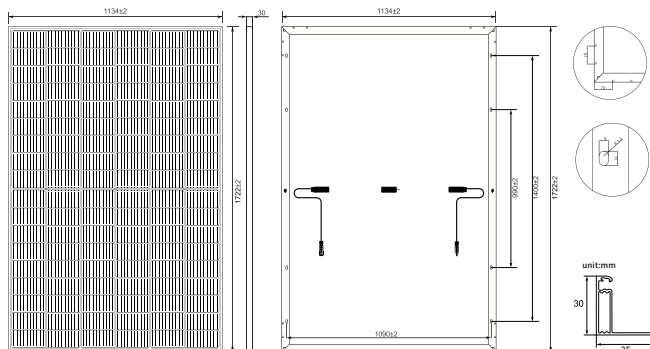
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.290%°C
Temperature Coefficient of Voc	-0.250%°C
Temperature Coefficient of Isc	+0.045%°C
Operational Temperature	-40~+85°C

Packaging

	1722x1134x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	962



*The unit is millimeter.
*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.



Specifications are subject to change without prior notice!

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TOPCon

TOPCON

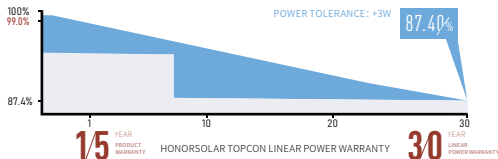
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LEARN MORE ABOUT THE PRODUCT DETAILS OF PV MODULES

410^W - 440^W HY-M10 108G

182 mm M BB 108 pcs | TOPCon Double Glass Bifacial Mono Half-Cell PV Module



 Half-cell TOPCon cells with super multi-busbar technology

 Excellent low-light power generation performance

 100% tested with a 30-year guaranteed system operation

 PID resistance

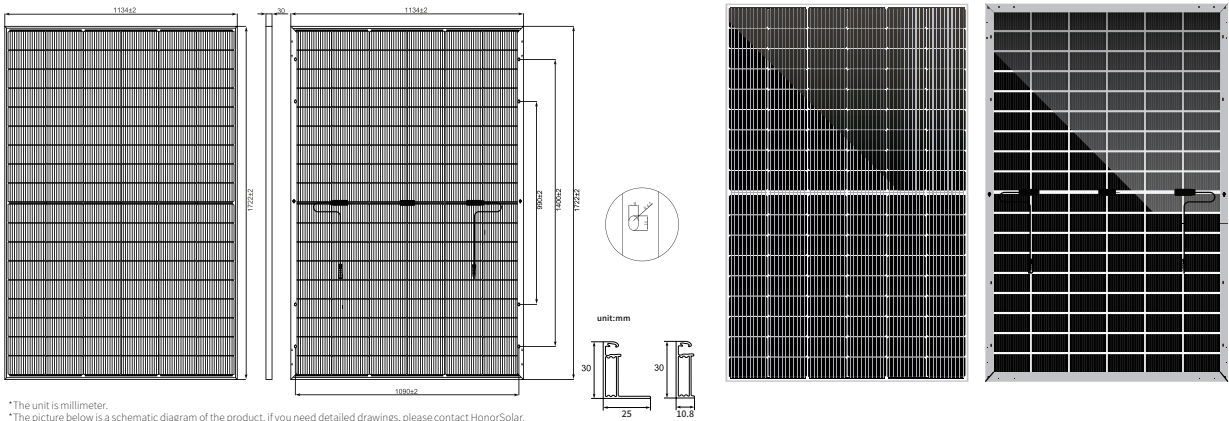
 Enhanced mechanical load capacity

 High conversion efficiency on both sides



HY-M10/108G

182 mm M BB 108 pcs TOPCon Double Glass Bifacial Mono Half-Cell PV Module



Electrical Specification (STC/BSTC)

MODEL	HY-M10/108G-410		HY-M10/108G-415		HY-M10/108G-420		HY-M10/108G-425		HY-M10/108G-430		HY-M10/108G-435		HY-M10/108G-440	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Power Output-Pmax(W)	410	452.1	415	457.5	420	462.9	425	468.3	430	473.7	435	479.1	440	484.5
Maximum Power Voltage-Vmp(V)	32.20	32.20	32.39	32.39	32.59	32.59	32.78	32.78	32.98	32.98	33.18	33.18	33.38	33.38
Maximum Power Current-Imp(A)	12.75	14.20	12.83	14.26	12.91	14.31	12.99	14.36	13.06	14.41	13.12	14.46	13.18	14.51
Open-Circuit Voltage-Voc(V)	38.47	38.47	38.67	38.67	38.87	38.87	39.07	39.07	39.26	39.26	39.46	39.46	39.66	39.66
Short-Circuit Current-Isc(A)	13.61	14.90	13.69	14.96	13.78	15.02	13.86	15.08	13.94	15.14	14.01	15.20	14.08	15.26
Module Efficiency-ηm(%)	20.9	/	21.2	/	21.5	/	21.7	/	22.0	/	22.2	/	22.5	/
Power Tolerance(W)	(0,+5W)													
Maximum System Voltage(V)	1500V DC-(H)													
Max Series Fuse Rating(A)	30A													

*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 *BSTC Testing Conditions: Front irradiation 1000W/m², Back reflection irradiation 135W/m², AM1.5, Ambient temperature 25°C

Structural Performance

Cell Arrangement	TOPCon Mono-Crystalline 182mm(2x54pcs)
Dimensions of Module L*W*H	1722x1134x30mm
Weight	24.2 kg
Glass	Coated, 2+2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm² ,30cm(+),30cm(-), length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

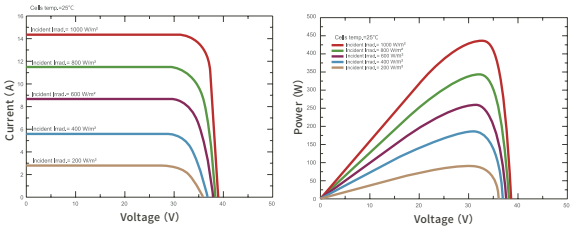
Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.300%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.046%/°C
Operational Temperature	-40~+85°C

Packaging

	1722x1134x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	962

Current-Voltage & Power-Voltage Curves

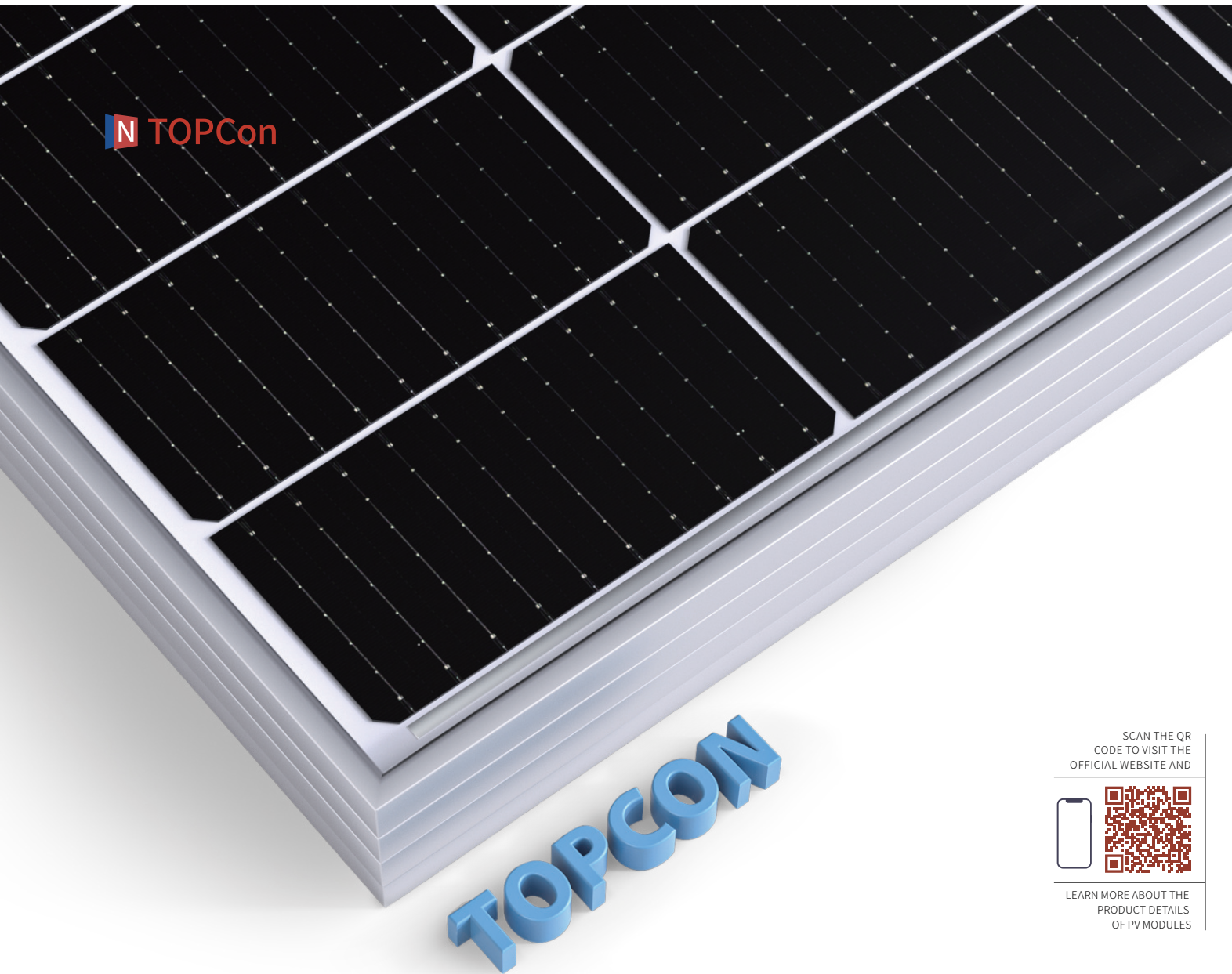


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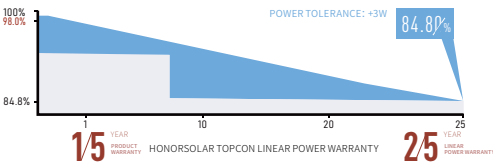
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LEARN MORE ABOUT THE
PRODUCT DETAILS
OF PV MODULES

455^W - 490^W HY-M10 120H

182 mm M BB 120 pcs | TOPCon Mono-Crystalline Half-Cell Photovoltaic Module



TOPCon Half-cell TOPCon cells with
super multi-busbar technology

Fire Resistance Class A

Excellent low-light power
generation performance

Enhanced mechanical
load capacit

100%TEST
MES 100% tested with a 25-year
guaranteed system operation

PID resistance



HY-M10/120H

182 mm M BB 120 pcs TOPCon Mono-Crystalline Half-Cell Photovoltaic Module

Electrical Specification (STC/NOCT)

MODEL	HY-M10/120H-455		HY-M10/120H-460		HY-M10/120H-465		HY-M10/120H-470		HY-M10/120H-475		HY-M10/120H-480		HY-M10/120H-485		HY-M10/120H-490	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output-Pmax(W)	455	336	460	340	465	344	470	348	475	352	480	356	485	360	490	364
Maximum Power Voltage-Vmp(V)	35.3	31.98	35.56	32.03	35.75	32.08	35.95	32.13	36.14	32.18	36.34	32.23	36.54	32.28	36.74	32.34
Maximum Power Current-Imp(A)	12.89	10.51	12.96	10.62	13.03	10.73	13.09	10.84	13.16	10.96	13.22	11.07	13.27	11.18	13.32	11.29
Open-Circuit Voltage-Voc(V)	42.28	39.26	42.48	39.32	42.68	39.38	42.88	39.44	43.08	39.51	43.28	39.57	43.48	39.74	43.68	39.91
Short-Circuit Current-Isc(A)	13.72	11.21	13.80	11.32	13.88	11.42	13.95	11.53	14.02	11.62	14.08	11.73	14.14	11.82	14.21	11.93
Module Efficiency-ηm(%)	21.1	/	21.3	/	21.5	/	21.8	/	22.0	/	22.2	/	22.5	/	22.7	/
Power Tolerance(W)	(0,+5W)															
Maximum System Voltage(V)	1500Vdc (IEC / UL)															
Max Series Fuse Rating(A)	25A															

*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5

*NOCT Testing Conditions: Irradiance 800 W/m², Cell Temperature 20°C, Wind Speed 1 m/s

Structural Performance

Cell Arrangement	TOPCon Mono-Crystalline 182mm (2x60pcs)
Dimensions of Module L*W*H	1903x1134x30mm
Weight	22.5 kg
Glass	Coated, 3.2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm², 30cm(+),30cm(-), length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

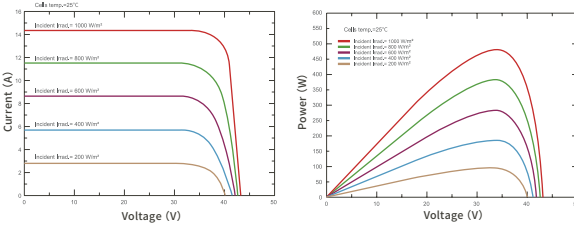
Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.300%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Isc	+0.046%/°C
Operational Temperature	-40~+85°C

Packaging

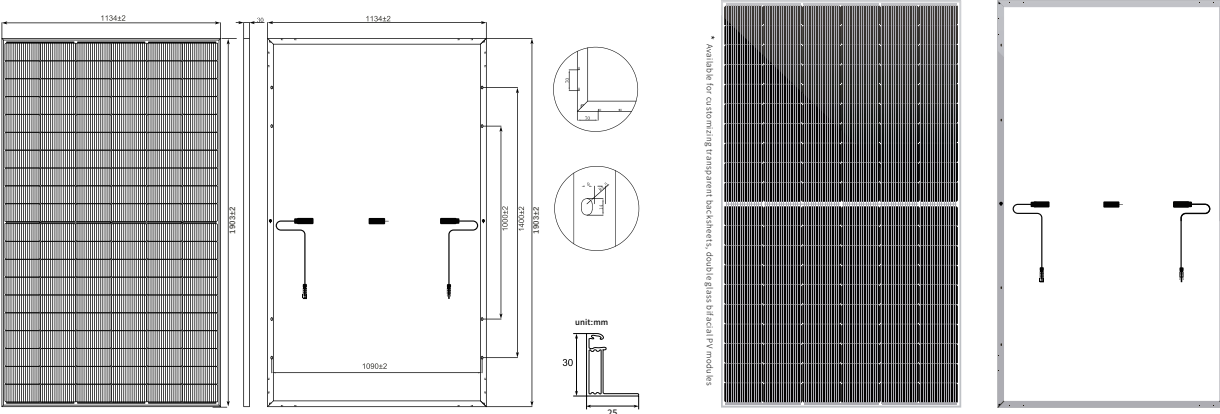
	1903x1134x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	888

Current-Voltage & Power-Voltage Curves



*The unit is millimeter.

*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.



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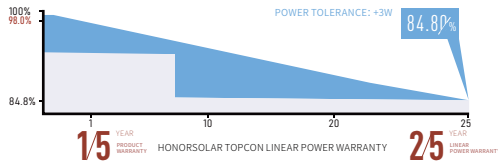
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LEARN MORE ABOUT THE
PRODUCT DETAILS
OF PV MODULES

550^W - 585^W HY-M10 144H

182 mm M BB 144 pcs | TOPCon Mono-Crystalline Half-Cell Photovoltaic Module



TOPCon
Half-cell TOPCon cells with
super multi-busbar technology

Fire Resistance Class A

**Excellent low-light power
generation performance**

**Enhanced mechanical
load capacity**

**100% TEST
MES**
100% tested with a 25-year
guaranteed system operation

PID
PID resistance



HY-M10/144H

182 mm M BB 144 pcs TOPCon Mono-Crystalline Half-Cell Photovoltaic Module

Electrical Specification (STC/NOCT)

MODEL	HY-M10/144H-550		HY-M10/144H-555		HY-M10/144H-560		HY-M10/144H-565		HY-M10/144H-570		HY-M10/144H-575		HY-M10/144H-580		HY-M10/144H-585	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output-Pmax(W)	550	413	555	417	560	421	565	425	570	429	575	433	580	437	585	441
Maximum Power Voltage-Vmp(V)	42.6	39.09	42.8	39.19	43	39.28	43.2	39.38	43.4	39.51	43.6	39.64	43.8	39.77	44	39.91
Maximum Power Current-Imp(A)	12.93	10.57	12.99	10.64	13.04	10.71	13.1	10.79	13.15	10.85	13.21	10.92	13.26	10.97	13.32	11.02
Open-Circuit Voltage-Voc(V)	50.97	47.64	51.17	47.78	51.37	47.92	51.57	48.06	51.77	48.20	51.97	48.34	52.17	48.48	52.37	48.62
Short-Circuit Current-Isc(A)	13.77	11.28	13.83	11.35	13.89	11.42	13.95	11.49	14.01	11.55	14.06	11.62	14.12	11.69	14.18	11.76
Module Efficiency-ηm(%)	21.3	/	21.5	/	21.7	/	21.9	/	22.1	/	22.3	/	22.5	/	22.6	/
Power Tolerance(W)	(0,+5W)															
Maximum System Voltage(V)	1500Vdc (IEC / UL)															
Max Series Fuse Rating(A)	25A															
*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5																
*NOCT Testing Conditions: Irradiance 800 W/m², Cell Temperature 20°C, Wind Speed 1 m/s																

Structural Performance

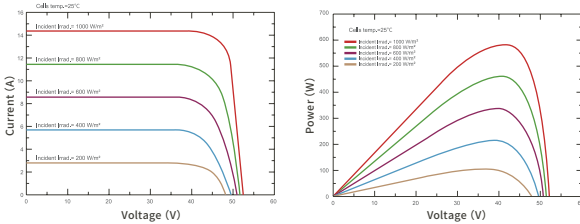
Cell Arrangement	TOPCon Mono-Crystalline 182mm(2x72pcs)
Dimensions of Module L*W*H	2278x1134x30mm
Weight	27 kg
Glass	Coated, 3.2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm² ,30cm(+),30cm(-), length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

Temperature characteristics

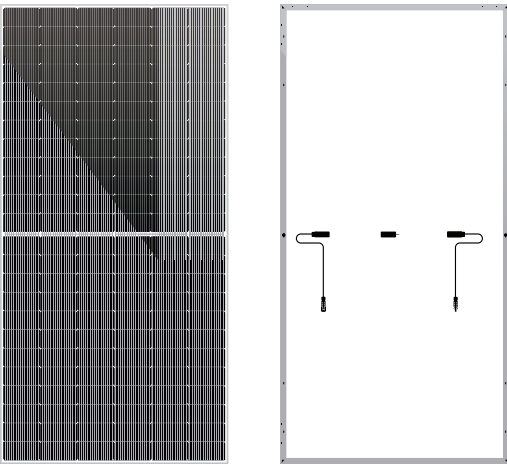
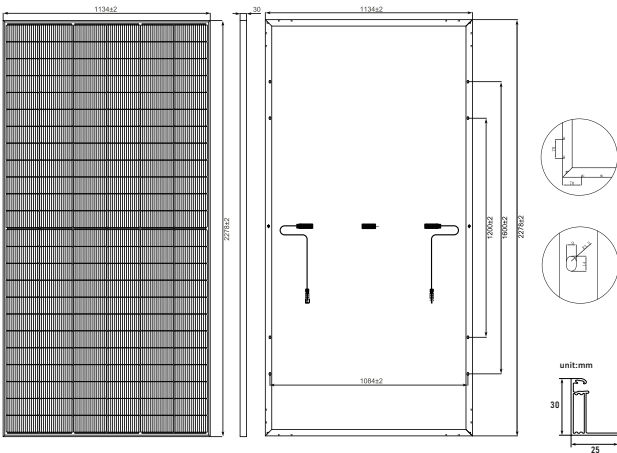
Nominal Operating Cell Temperature (NOCT)	45±2 C
Temperature Coefficient of Pmax	-0.310% C
Temperature Coefficient of Voc	-0.260% C
Temperature Coefficient of Isc	+0.046% C
Operational Temperature	-40~+85 C

Packaging

	2278x1134x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	740



*The unit is millimeter.
*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.



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550^W - 585^W HY-M10 144G

182 mm M BB 144 pcs | TOPCon Double Glass Bifacial Mono Half-Cell PV Module

TOPCon Half-cell TOPCon cells with super multi-busbar technology

PID resistance

Excellent low-light power generation performance

Enhanced mechanical load capacity

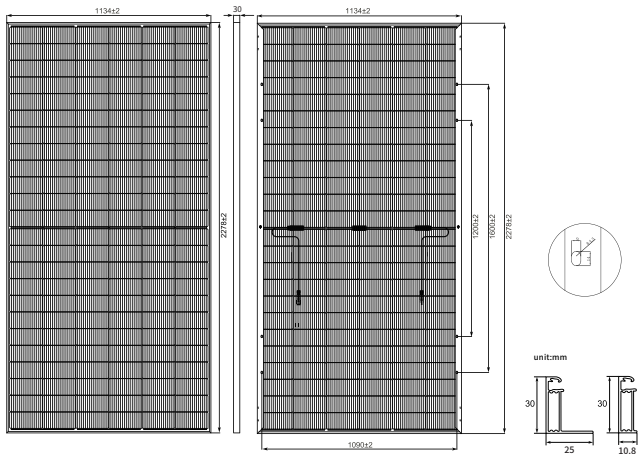
100% tested with a 30-year guaranteed system operation

High conversion efficiency on both sides

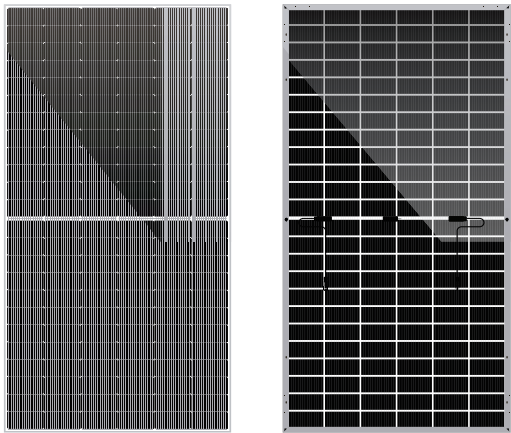


HY-M10/144G

182 mm M BB 144 pcs TOPCon Double Glass Bifacial Mono Half-Cell PV Module



*The unit is millimeter.
*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.



Electrical Specification (STC/BSTC)

MODEL	HY-M10/144G-550		HY-M10/144G-555		HY-M10/144G-560		HY-M10/144G-565		HY-M10/144G-570		HY-M10/144G-575		HY-M10/144G-580		HY-M10/144G-585	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Power Output-Pmax(W)	550	602.4	555	607.8	560	613.2	565	618.6	570	624.0	575	629.4	580	634.8	585	640.2
Maximum Power Voltage-Vmp(V)	42.6	42.6	42.8	42.8	43	43	43.2	43.2	43.4	43.4	43.6	43.6	43.8	43.8	44	44
Maximum Power Current-Imp(A)	12.93	14.20	12.99	14.25	13.04	14.30	13.1	14.35	13.15	14.40	13.21	14.45	13.26	14.50	13.32	14.55
Open-Circuit Voltage-Voc(V)	50.97	50.97	51.17	51.17	51.37	51.37	51.57	51.57	51.77	51.77	51.97	51.97	52.17	52.17	52.37	52.37
Short-Circuit Current-Isc(A)	13.77	15.12	13.83	15.17	13.89	15.22	13.95	15.27	14.01	15.32	14.06	15.37	14.12	15.42	14.18	15.47
Module Efficiency-ηm(%)	21.3	/	21.5	/	21.7	/	21.9	/	22.1	/	22.3	/	22.5	/	22.6	/
Power Tolerance(W)	(0,+5W)															
Maximum System Voltage(V)	1500V DC-(H)															
Max Series Fuse Rating(A)	30A															

*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 *BSTC Testing Conditions: Front irradiation 1000W/m², Back reflection irradiation 135W/m², AM1.5, Ambient temperature 25°C

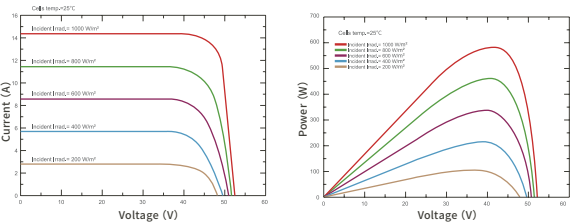
Structural Performance

Cell Arrangement	TOPCon Mono-Crystalline 182mm (2x72pcs)
Dimensions of Module L*W*H	2278x1134x30mm
Weight	32 kg
Glass	Coated, 2+2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm² ,30cm(+),30cm(-), length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	44±2 C
Temperature Coefficient of Pmax	-0.300% C
Temperature Coefficient of Voc	-0.250% C
Temperature Coefficient of Isc	+0.046% C
Operational Temperature	-40~+85 C

Current-Voltage & Power-Voltage Curves



Packaging

	2278x1134x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	740

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TOPCon

TOPCON

585^W - 620^W HY-M16 144H

182 mm M BB 144 pcs | TOPCon Mono-Crystalline Half-Cell Photovoltaic Module

Half-cell TOPCon cells with super multi-busbar technology

Fire Resistance Class A

Excellent low-light power generation performance

Enhanced mechanical load capacity

100% tested with a 25-year guaranteed system operation

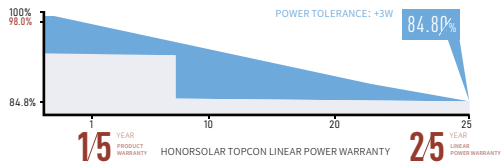
PID resistance



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LEARN MORE ABOUT THE PRODUCT DETAILS OF PV MODULES



HY-M16/144H

182 mm M BB 144 pcs TOPCon Mono-Crystalline Half-Cell Photovoltaic Module

Electrical Specification (STC/NOCT)

MODEL	HY-M16/144H-585		HY-M16/144H-590		HY-M16/144H-595		HY-M16/144H-600		HY-M16/144H-605		HY-M16/144H-610		HY-M16/144H-615		HY-M16/144H-620	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output-Pmax(W)	585	445.3	590	449.1	595	452.9	600	456.7	605	460.6	610	464.4	615	468.2	620	472.0
Maximum Power Voltage-Vmp(V)	43.57	41.41	43.68	41.51	43.79	41.63	43.90	41.72	44.00	41.82	44.11	41.92	44.22	42.03	44.33	42.13
Maximum Power Current-Imp(A)	13.43	10.76	13.51	10.82	13.59	10.88	13.67	10.95	13.75	11.02	13.83	11.08	13.91	11.14	13.99	11.21
Open-Circuit Voltage-Voc(V)	52.01	49.43	52.12	49.53	52.23	49.64	52.34	49.74	52.44	49.84	52.55	49.94	52.66	50.04	52.77	50.15
Short-Circuit Current-Isc(A)	14.29	11.58	14.37	11.54	14.45	11.61	14.53	11.67	14.61	11.74	14.69	11.80	14.77	11.86	14.85	11.92
Module Efficiency-ηm(%)	21.6	/	21.8	/	22.0	/	22.2	/	22.4	/	22.6	/	22.7	/	22.9	/
Power Tolerance(W)	(0,+5W)															
Maximum System Voltage(V)	1500Vdc (IEC / UL)															
Max Series Fuse Rating(A)	30A															
*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5										*NOCT Testing Conditions: Irradiance 800 W/m², Cell Temperature 20°C, Wind Speed 1 m/s						

Structural Performance

Cell Arrangement	TOPCon Mono-Crystalline 182mm (2x72pcs)
Dimensions of Module L*W*H	2384x1134x30mm
Weight	28.2 kg
Glass	Coated, 3.2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm² ,30cm(+),30cm(-), length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

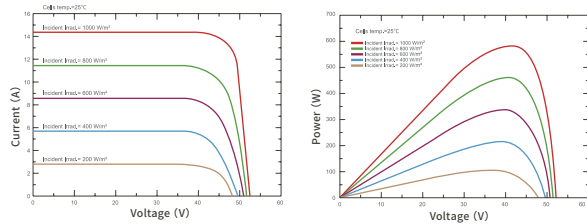
Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	45±2℃
Temperature Coefficient of Pmax	-0.330%/℃
Temperature Coefficient of Voc	-0.240%/℃
Temperature Coefficient of Isc	+0.047%/℃
Operational Temperature	-40~+85℃

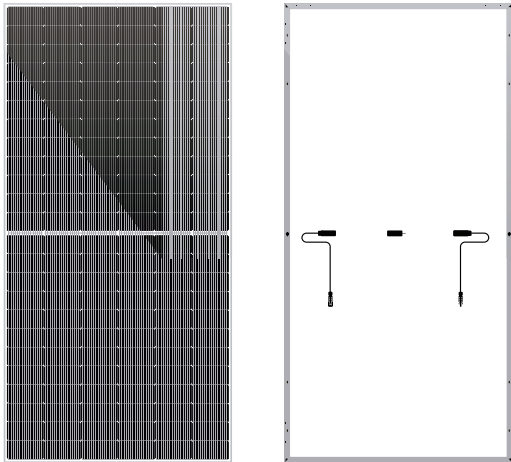
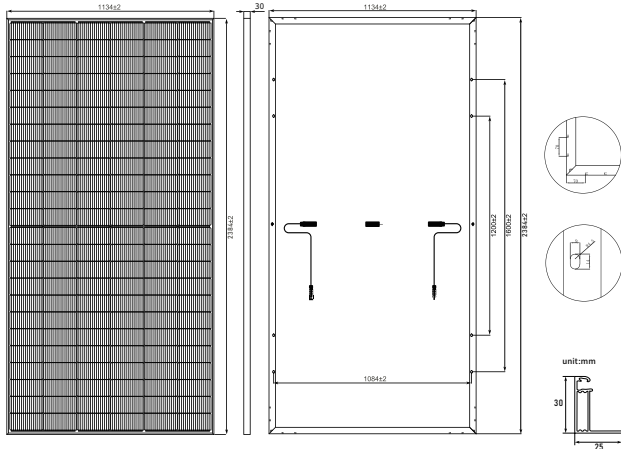
Packaging

	2384x1134x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	740

Current-Voltage & Power-Voltage Curves



*The unit is millimeter.
*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.



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TOPCon

600^W - 635^W HY-M12 120H

210 mm M BB 120 pcs | TOPCon Mono-Crystalline Half-Cell Photovoltaic Module

Half-cell TOPCon cells with super multi-busbar technology

Fire Resistance Class A

Excellent low-light power generation performance

Enhanced mechanical load capacity

100% tested with a 25-year guaranteed system operation

PID resistance



HY-M12/120H

210 mm M BB 120 pcs TOPCon Mono-Crystalline Half-Cell Photovoltaic Module

Electrical Specification (STC/NOCT)

MODEL	HY-M12/120H-600		HY-M12/120H-605		HY-M12/120H-610		HY-M12/120H-615		HY-M12/120H-620		HY-M12/120H-625		HY-M12/120H-630		HY-M12/120H-635	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output-Pmax(W)	600	453	605	457	610	461	615	465	620	469	625	473	630	476	635	480
Maximum Power Voltage-Vmp(V)	34.80	32.9	35.00	33.2	35.20	33.4	35.50	33.6	35.70	33.8	35.90	33.9	36.10	34.1	36.30	34.3
Maximum Power Current-Imp(A)	17.21	13.73	17.25	13.80	17.29	13.83	17.33	13.86	17.37	13.89	17.41	13.93	17.46	13.96	17.51	13.99
Open-Circuit Voltage-Voc(V)	42.10	39.8	42.30	40.0	42.50	40.2	42.70	40.4	42.90	40.6	43.10	40.8	43.30	41.0	43.50	41.2
Short-Circuit Current-Isc(A)	18.11	14.57	18.16	14.62	18.21	14.67	18.26	14.72	18.31	14.77	18.36	14.81	18.41	14.85	18.46	14.89
Module Efficiency-ηm(%)	21.2	/	21.4	/	21.6	/	21.7	/	21.9	/	22.1	/	22.3	/	22.4	/
Power Tolerance(W)	(0,+5W)															
Maximum System Voltage(V)	1500Vdc (IEC / UL)															
Max Series Fuse Rating(A)	30A															
*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5																
*NOCT Testing Conditions: Irradiance 800 W/m², Cell Temperature 20°C, Wind Speed 1 m/s																

Structural Performance

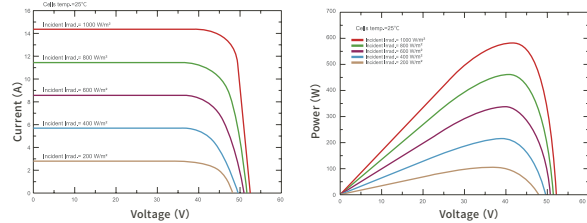
Cell Arrangement	TOPCon Mono-Crystalline 210mm (2x60pcs)
Dimensions of Module L*W*H	2172x1303x30mm
Weight	30.9 kg
Glass	Coated, 3.2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm², 30cm(+), 30cm(-), length can be customized
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa
Connector	MC4 Compatible

Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.340%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.047%/°C
Operational Temperature	-40~+85°C

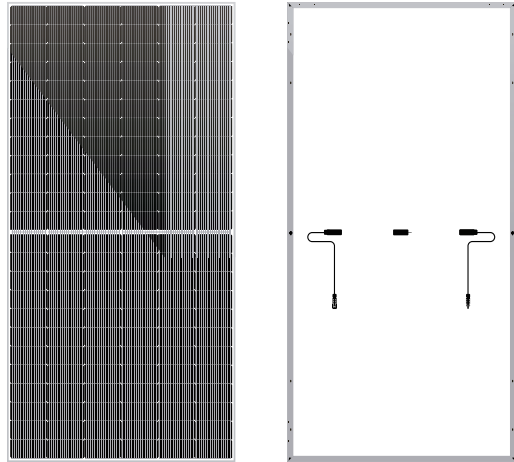
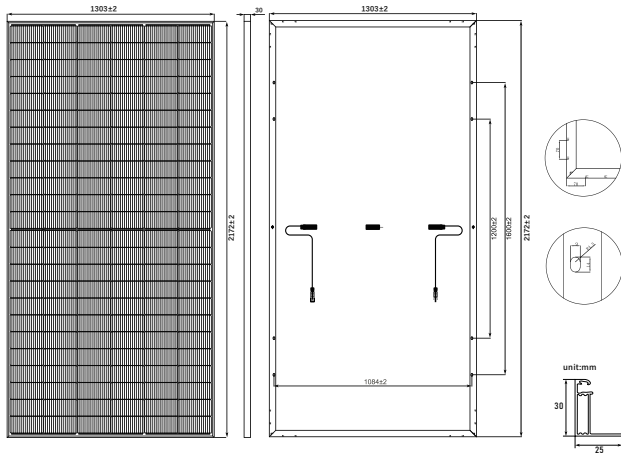
Packaging

	2172x1303x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	666



*The unit is millimeter.

*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.

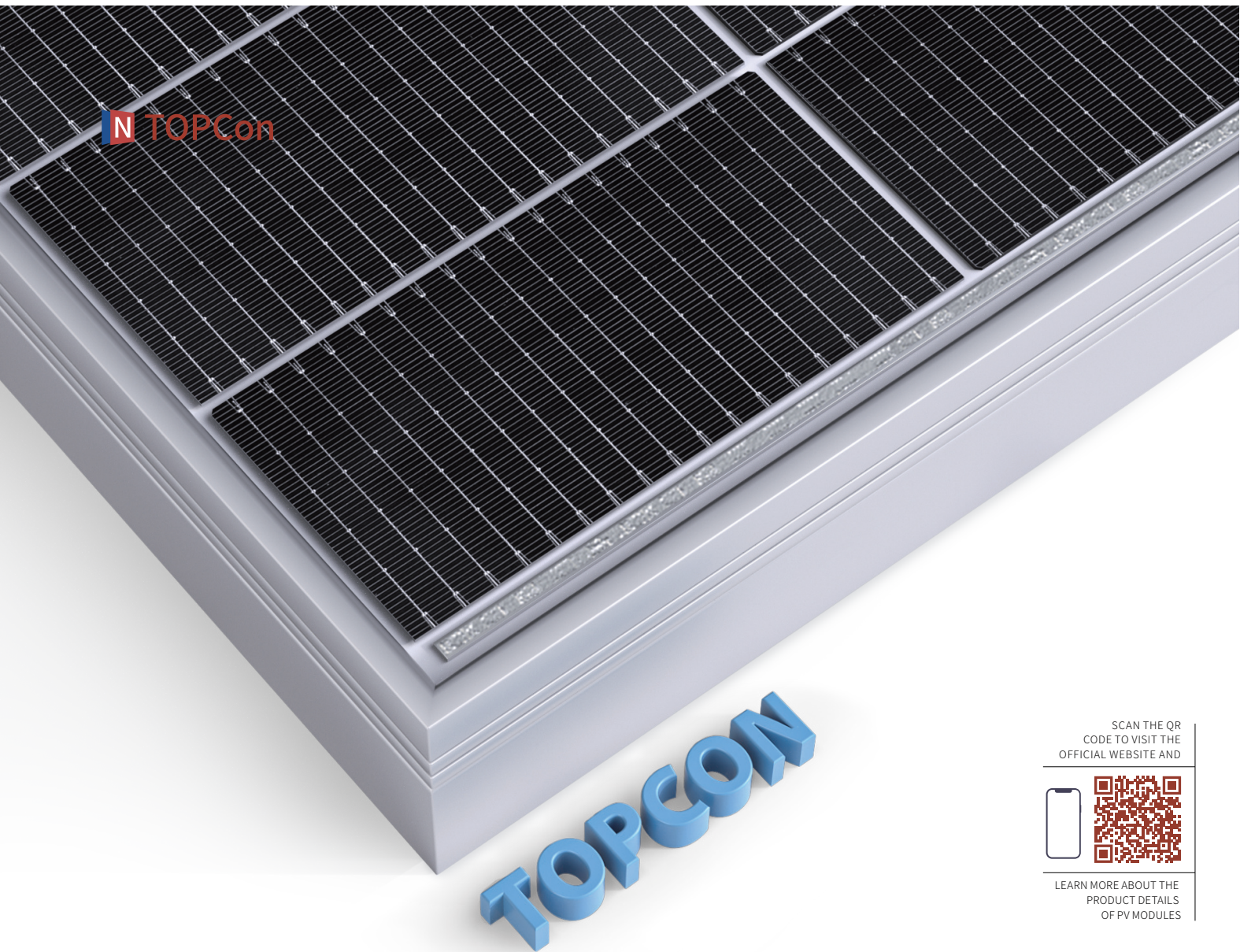


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675^W - 700^W HY-M12 132G

210 mm M BB 132 pcs | TOPCon Double Glass Bifacial Mono Half-Cell PV Module

 Half-cell TOPCon cells with super multi-busbar technology

 PID resistance

 Excellent low-light power generation performance

 Enhanced mechanical load capacity

 100% tested with a 30-year guaranteed system operation

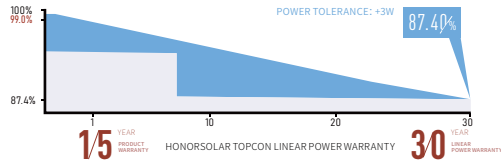
 High conversion efficiency on both sides



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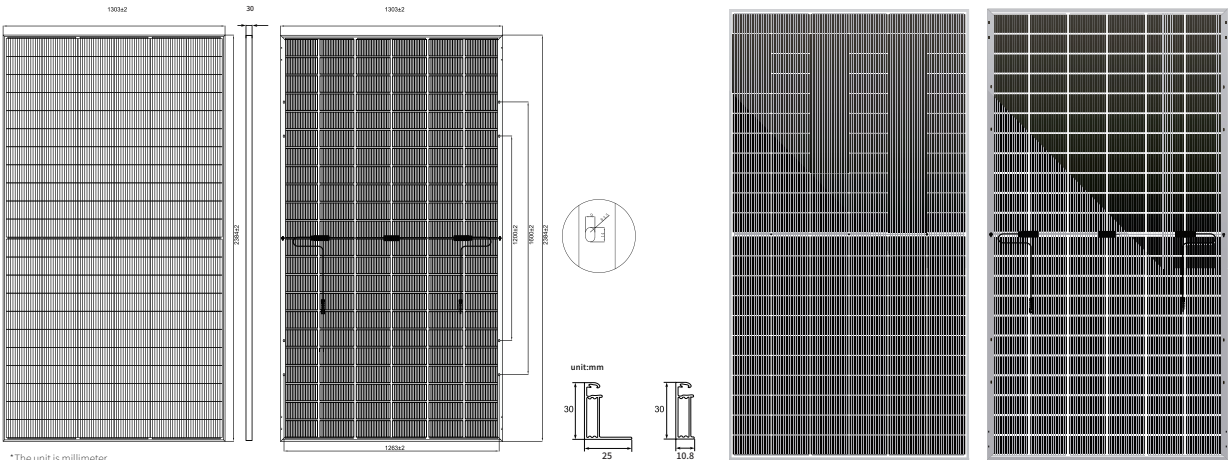


LEARN MORE ABOUT THE PRODUCT DETAILS OF PV MODULES



HY-M12/132G

210 mm M BB 132 pcs TOPCon Double Glass Bifacial Mono Half-Cell PV Module



Electrical Specification (STC/BSTC)

MODEL	HY-M12/132G-675		HY-M12/132G-680		HY-M12/132G-685		HY-M12/132G-690		HY-M12/132G-695		HY-M12/132G-700	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Power Output-Pmax(W)	675	729	680	734.4	685	739.8	690	745.2	695	750.6	700	756
Maximum Power Voltage-Vmp(V)	39.00	39.00	39.20	39.20	39.40	39.40	39.60	39.60	39.80	39.80	40.00	40.00
Maximum Power Current-Imp(A)	17.31	18.69	17.35	18.74	17.39	18.78	17.43	18.82	17.47	18.87	17.51	18.92
Open-Circuit Voltage-Voc(V)	46.90	46.90	47.10	47.10	47.30	47.30	47.50	47.50	47.70	47.70	47.90	47.90
Short-Circuit Current-Isc(A)	18.24	20.00	18.29	20.05	18.34	20.11	18.39	20.16	18.44	20.21	18.49	20.26
Module Efficiency-ηm(%)	21.7	/	21.9	/	22.1	/	22.2	/	22.4	/	22.5	/
Power Tolerance(W)	(0,+5W)											
Maximum System Voltage(V)	1500Vdc (IEC / UL)											
Max Series Fuse Rating(A)	35A											

*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 *BSTC Testing Conditions: Front irradiation 1000W/m², Back reflection irradiation 135W/m², AM1.5, Ambient temperature 25°C

Structural Performance

Cell Arrangement	TOPCon Mono-Crystalline 210mm (2x66pcs)
Dimensions of Module L*W*H	2384x1303x30mm
Weight	38.7 kg
Glass	Coated, 2+2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm², 30cm(+), 30cm(-), length can be customized
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa
Connector	MC4 Compatible

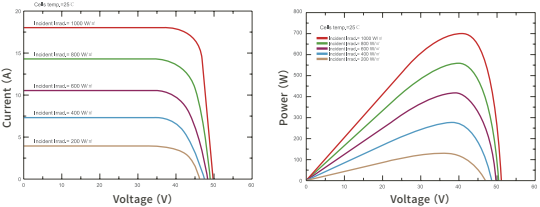
Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	44±2°C
Temperature Coefficient of Pmax	-0.270%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.040%/°C
Operational Temperature	-40~+85°C

Packaging

	2384x1303x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	666

Current-Voltage & Power-Voltage Curves

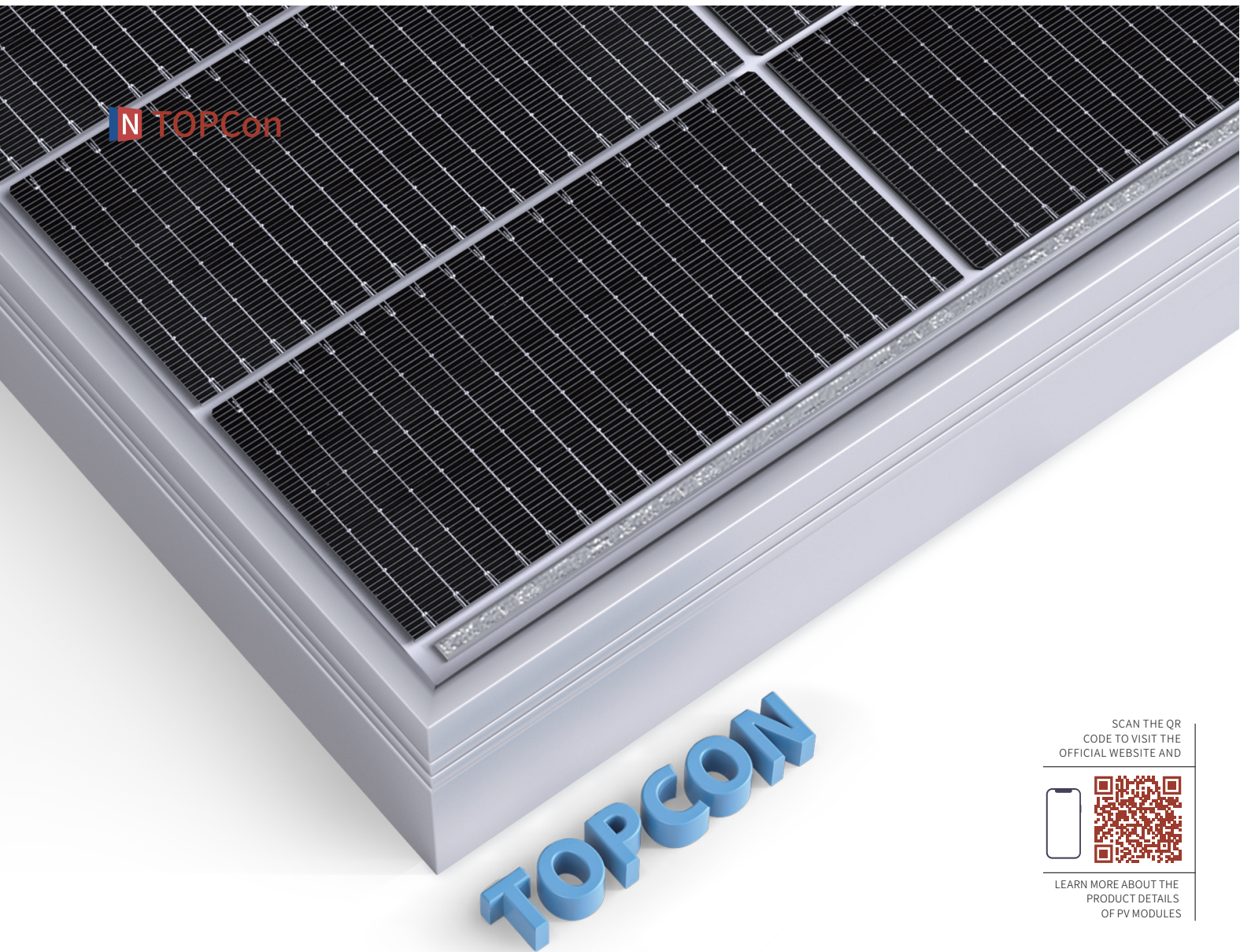


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675^W - 700^W HY-M12 132H

210 mm M BB 132 pcs | TOPCon Mono-Crystalline Half-Cell Photovoltaic Module

 Half-cell TOPCon cells with super multi-busbar technology

 Excellent low-light power generation performance

 100% TEST MES 100% tested with a 25-year guaranteed system operation

 Fire Resistance Class A

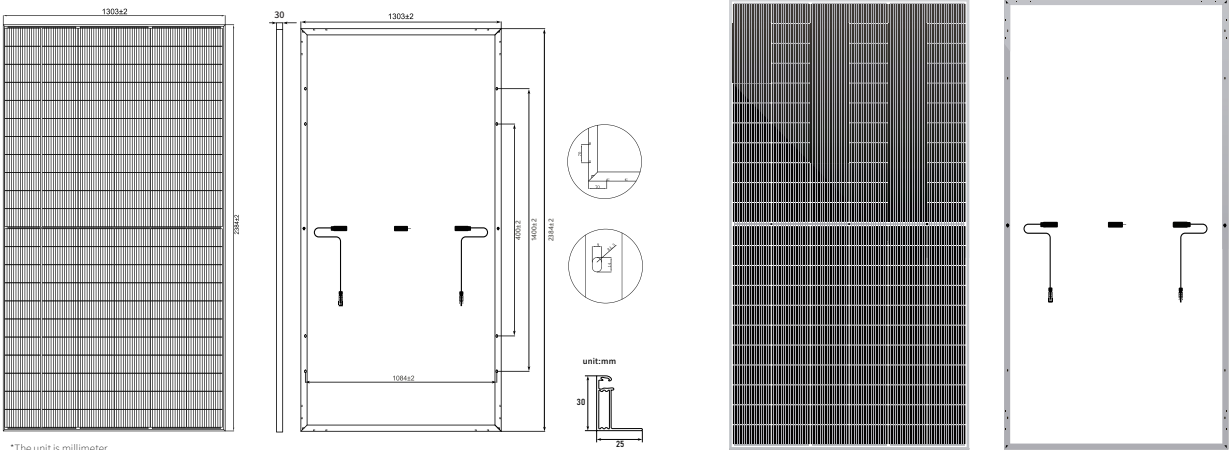
 Enhanced mechanical load capacity

 PID resistance



HY-M12/132H

210 mm M BB 132 pcs TOPCon Mono-Crystalline Half-Cell Photovoltaic Module



*The unit is millimeter.
*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.

Electrical Specification (STC/NOCT)

MODEL	HY-M12/132H-675		HY-M12/132H-680		HY-M12/132H-685		HY-M12/132H-690		HY-M12/132H-695		HY-M12/132H-700	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output-Pmax(W)	675	510	680	514	685	518	690	522	695	526	700	530
Maximum Power Voltage-Vmp(V)	39.00	36.9	39.20	37.1	39.40	37.4	39.60	37.2	39.80	37.6	40.00	37.8
Maximum Power Current-Imp(A)	17.31	13.84	17.35	13.88	17.39	13.91	17.43	13.91	17.47	13.97	17.51	14.00
Open-Circuit Voltage-Voc(V)	46.90	44.4	47.10	44.6	47.30	44.8	47.50	44.8	47.70	45.2	47.90	45.4
Short-Circuit Current-Isc(A)	18.24	14.71	18.29	14.75	18.34	14.79	18.39	14.79	18.44	14.83	18.49	14.91
Module Efficiency-ηm(%)	21.7	/	21.9	/	22.1	/	22.2	/	22.4	/	22.5	/
Power Tolerance(W)	(0,+5W)											
Maximum System Voltage(V)	1500Vdc (IEC / UL)											
Max Series Fuse Rating(A)	30A											

*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5
*NOCT Testing Conditions: Irradiance 800 W/m², Cell Temperature 20°C, Wind Speed 1 m/s

Structural Performance

Cell Arrangement	TOPCon Mono-Crystalline 210mm (2x66pcs)
Dimensions of Module L*W*H	2384x1303x30mm
Weight	33 kg
Glass	Coated, 3.2mm tempered Glass, low Iron
Frame	silver
Junction Box	IP68
Cables	4.0mm², 30cm(+), 30cm(-), length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

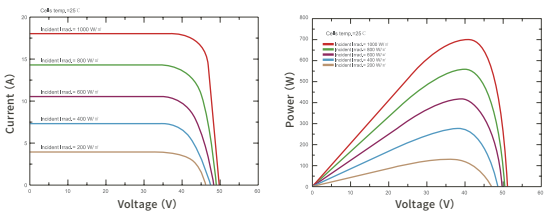
Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	43±2℃
Temperature Coefficient of Pmax	-0.340%/℃
Temperature Coefficient of Voc	-0.250%/℃
Temperature Coefficient of Isc	+0.040%/℃
Operational Temperature	-40~+85℃

Packaging

	2384x1303x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	666

Current-Voltage & Power-Voltage Curves



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Half-Cell
HJT
PV Series

Honor Solar

**HIGH-EFFICIENCY
N-TYPE HJT**

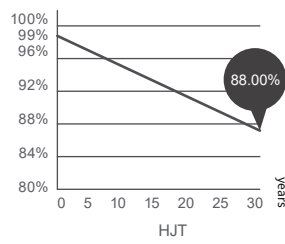
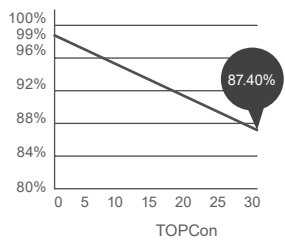
PV Module | Advantages

半片异质结
光伏组件

环宇高效 N 型 HJT 光伏组件 | 优势

No PID,LID

- With no B-O bond and TCO film, LID and PID effect can be eliminated, whict means less power loss and longer service life

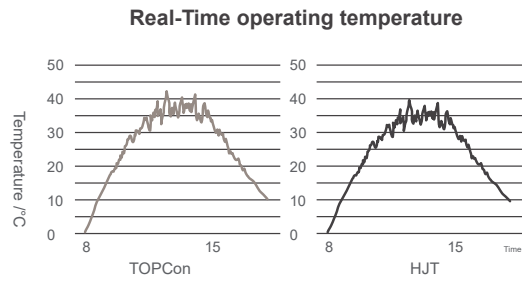
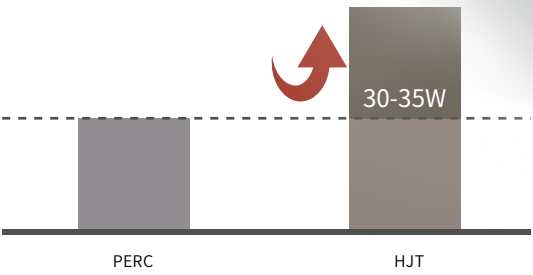


Higher Power

- All HonorSolar HJT solar modules have 15-year product warranty and 30-year linear performance warranty, the power will remain above 88% during the service life

Higher Power

- For the same module type, the power of HJT modules is 30-35W higher than that of PERC modules

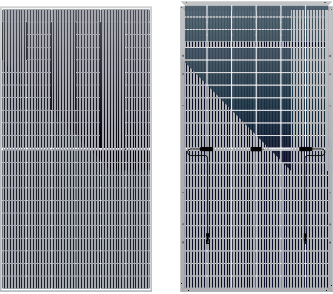


Lower Temperature Coefficient

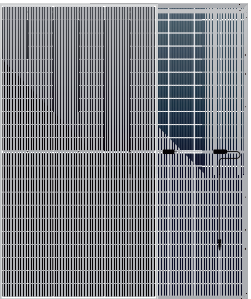
- N-Type TOPCon Modules Optimized to -0.29%/°C
- Heterojunction PV modules optimized to -0.26%/°C
- Heterojunction photovoltaic modules generate electricity especially at high temperatures

Superior Power

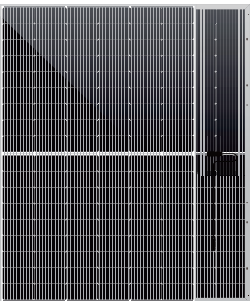
- The maximum power output of HonorSolar HJT solar modules hasreached 700W, which can effectively reduce the LCOE and bring more return on investment to customers



210MM 700W



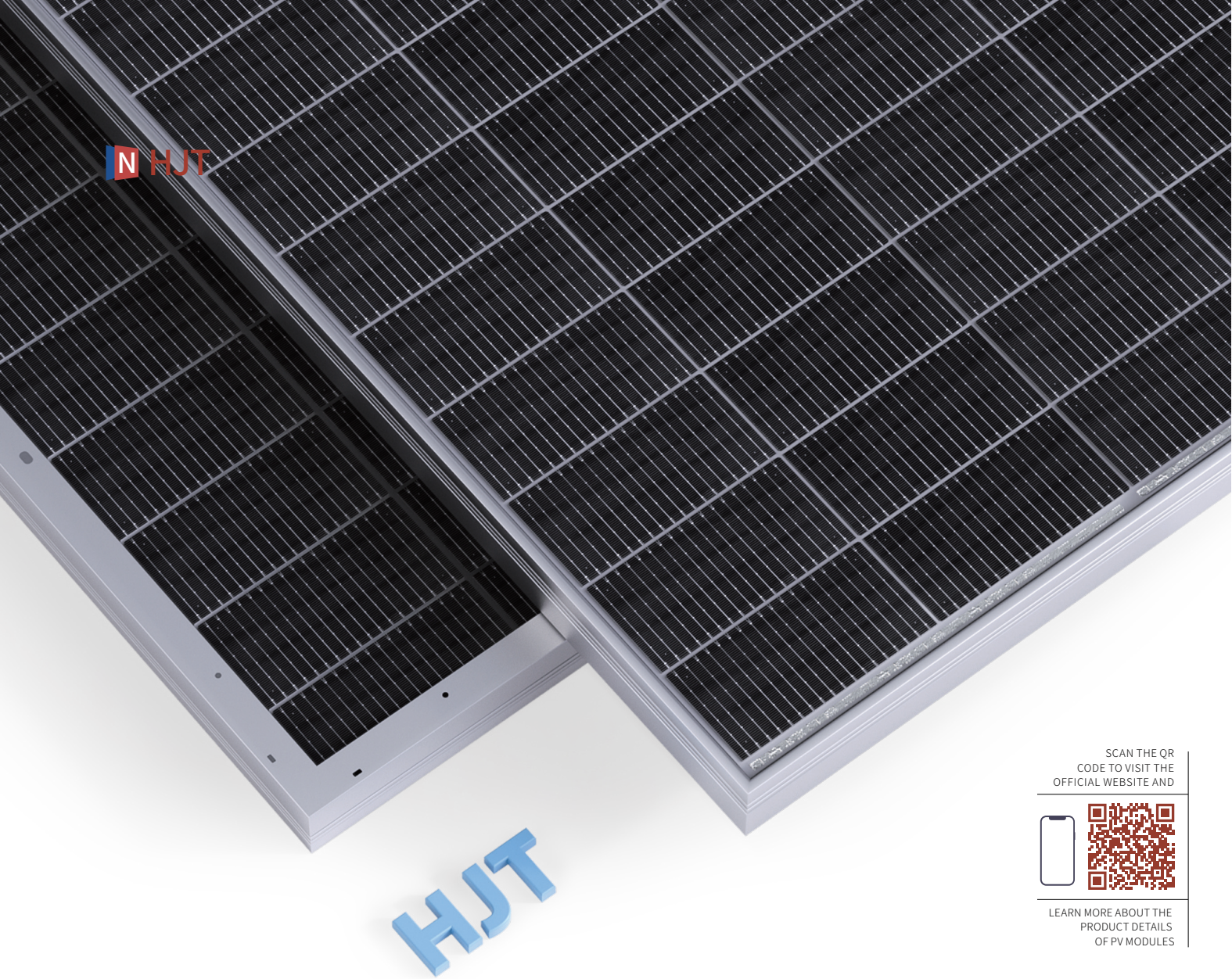
HJT($\nearrow$ 35%)
95%Bifaciality



TOPCon
85%Bifaciality

>95% Bifaciality

- By virtue of the cell's natural bifacial structure, bifacial solar modules can generate power from both sides, which brings more energy yield



640^W - 670^W HY-M12 120G

210 mm 120 pcs | HJT Double Glass Bifacial Mono-Crystalline Half-Cell PV Module

Half-cell HJT cells with super multi-busbar technology

PID resistance

Excellent low-light power generation performance

Enhanced mechanical load capacity

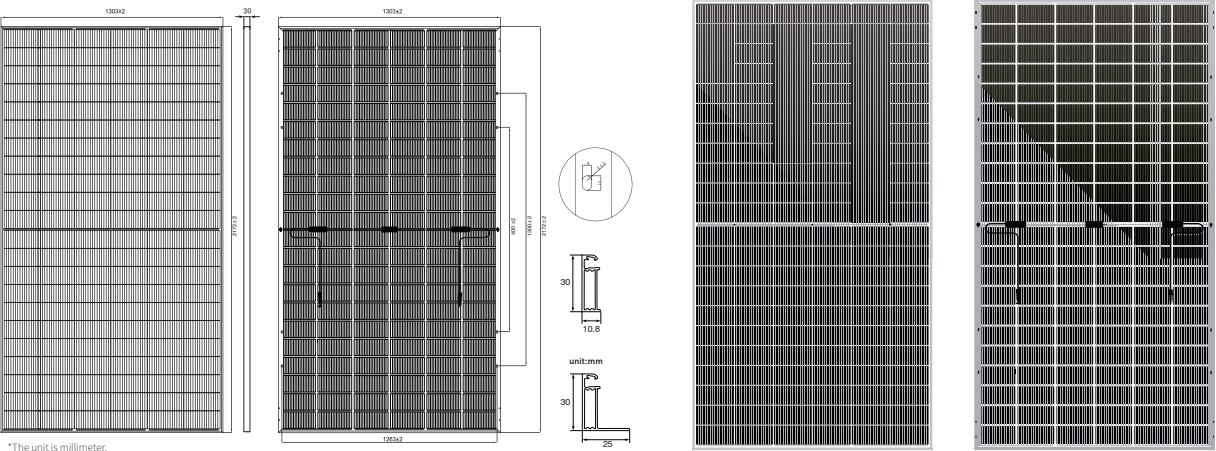
100% tested with a 30-year guaranteed system operation

High conversion efficiency on both sides



HY-M12/120G

210 mm 120 pcs HJT Double Glass Bifacial Mono-Crystalline Half-Cell PV Module



*The unit is millimeter.
*The picture below is a schematic diagram of the product, if you need detailed drawings, please contact HonorSolar.

Electrical Specification (STC/BSTC)

MODEL	HY-M12/120G-640		HY-M12/120G-645		HY-M12/120G-650		HY-M12/120G-655		HY-M12/120G-660		HY-M12/120G-665		HY-M12/120G-670	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Power Output-Pmax(W)	640	705	645	710	650	715	655	720	660	725	665	730	670	735
Maximum Power Voltage-Vmp(V)	39.37	39.37	39.48	39.44	39.60	39.51	39.72	39.58	39.84	39.65	39.96	39.72	40.08	39.79
Maximum Power Current-Imp(A)	16.27	17.95	16.34	18.02	16.42	18.11	16.50	18.20	16.58	18.29	16.66	18.38	16.74	18.47
Open-Circuit Voltage-Voc(V)	44.76	44.76	44.82	44.82	44.88	44.88	44.94	44.94	45.00	45.00	45.06	45.06	45.12	45.12
Short-Circuit Current-Isc(A)	17.33	19.11	17.42	19.21	17.53	19.34	17.64	19.47	17.75	19.60	17.86	19.73	17.97	19.86
Module Efficiency-ηm(%)	22.6	/	22.8	/	23.0	/	23.1	/	23.3	/	23.5	/	23.7	/
Power Tolerance(W)	(0,+5W)													
Maximum System Voltage(V)	1500Vdc (IEC / UL)													
Max Series Fuse Rating(A)	35A													

*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 *BSTC Testing Conditions: Front irradiation 1000W/nf, Back reflection irradiation 135W/nf, AM1.5, Ambient temperature 25°C

Structural Performance

Cell Arrangement	HJT Mono-Crystalline 210mm (2x60pcs)
Dimensions of Module L*W*H	2172x1303x30mm
Weight	35.3 kg
Glass	Coated, 2+2mm tempered Glass
Frame	silver
Junction Box	3 diodes, IP68, IEC 62790
Cables	4.0mm² .30 cm, EN 50618, length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

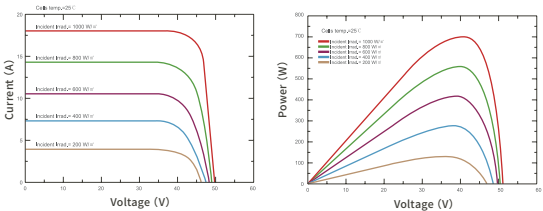
Packaging

	2172x1303x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	666

Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	43±3°C
Temperature Coefficient of Pmax	-0.243%/°C
Temperature Coefficient of Voc	-0.223%/°C
Temperature Coefficient of Isc	+0.026%/°C
Operational Temperature	-40~+85°C

Current-Voltage & Power-Voltage Curves

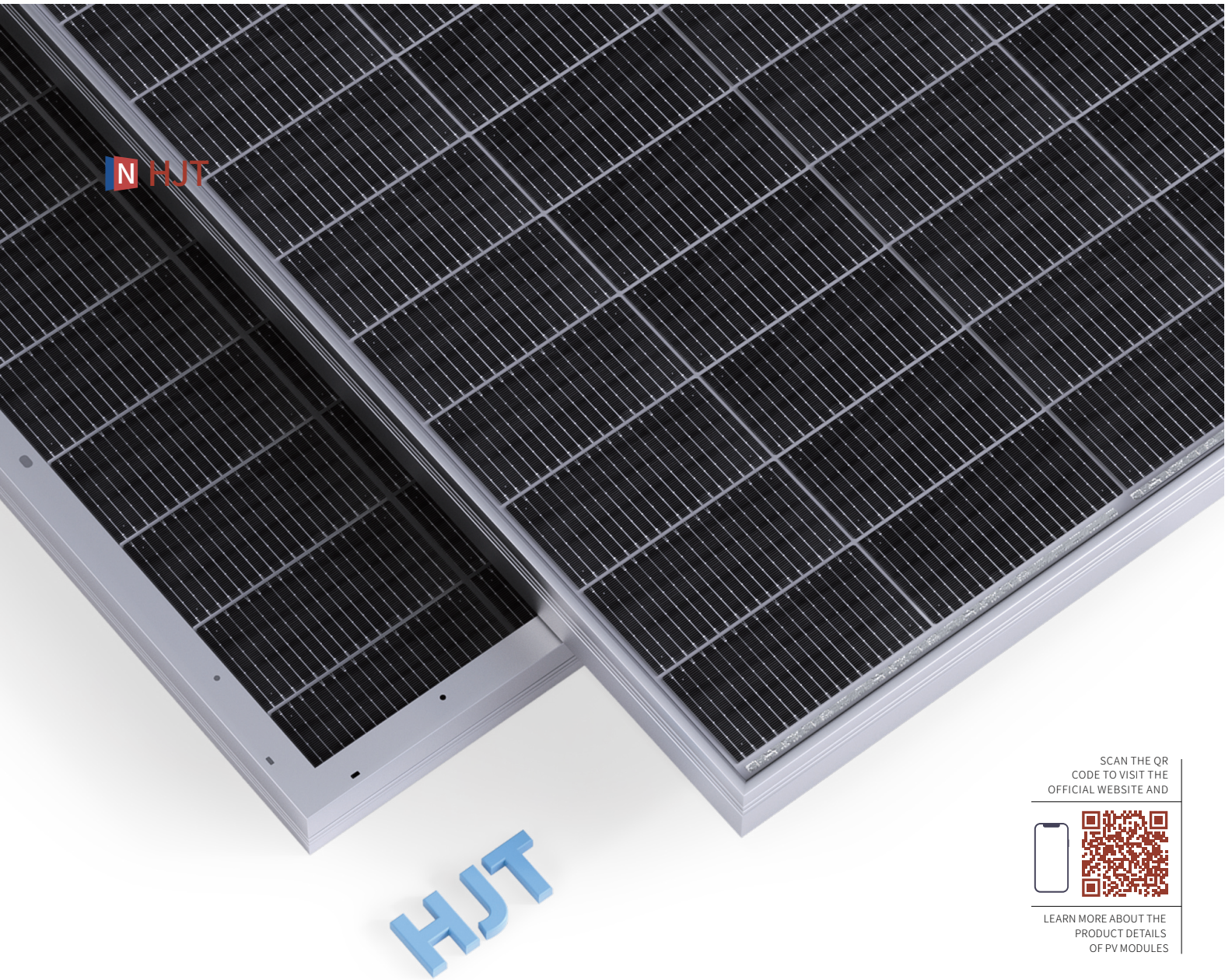


Specifications are subject to change without prior notice!

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sales@honorsolar.cn

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695^W - 730^W HY-M12 132G

210 mm 132 pcs | HJT Double Glass Bifacial Mono-Crystalline Half-Cell PV Module

Half-cell HJT cells with super multi-busbar technology

PID resistance

Excellent low-light power generation performance

Enhanced mechanical load capacity

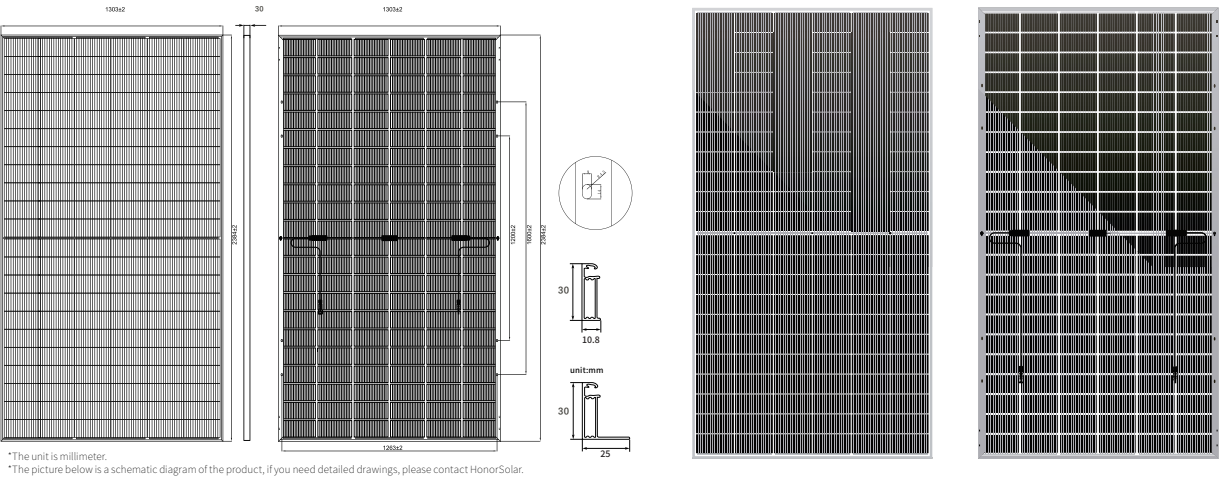
100% tested with a 30-year guaranteed system operation

High conversion efficiency on both sides



HY-M12/132G

210 mm 132 pcs HJT Double Glass Bifacial Mono-Crystalline Half-Cell PV Module



Electrical Specification (STC/BSTC)

MODEL	HY-M12/132G-695		HY-M12/132G-700		HY-M12/132G-705		HY-M12/132G-710		HY-M12/132G-715		HY-M12/132G-720		HY-M12/132G-725		HY-M12/132G-730	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Power Output-Pmax(W)	695	750.4	700	756	705	761.4	710	766.8	715	772.2	720	777.6	725	783	730	788.4
Maximum Power Voltage-Vmp(V)	39.80	39.80	40.00	40.00	40.2	40.2	40.4	40.4	40.6	40.6	40.8	40.8	41	41	41.2	41.2
Maximum Power Current-Imp(A)	17.47	18.87	17.51	18.92	17.55	18.97	17.59	19.02	17.63	19.07	17.67	19.12	17.71	19.17	17.75	19.22
Open-Circuit Voltage-Voc(V)	47.70	47.70	47.90	47.90	48.09	48.09	48.28	48.28	48.47	48.47	48.65	48.65	48.83	48.83	49.01	49.01
Short-Circuit Current-Isc(A)	18.44	20.21	18.49	20.26	18.54	20.31	18.59	20.36	18.64	20.41	18.69	20.46	18.74	20.51	18.79	20.56
Module Efficiency-ηm(%)	22.4	/	22.5	/	22.7	/	22.9	/	23.0	/	23.2	/	23.3	/	23.5	/
Power Tolerance(W)	(0,+5W)															
Maximum System Voltage(V)	1500Vdc (IEC / UL)															
Max Series Fuse Rating(A)	35A															

*Standard Test Conditions (STC): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 *BSTC Testing Conditions: Front irradiation 1000W/m², Back reflection irradiation 135W/m², AM1.5, Ambient temperature 25°C

Structural Performance

Cell Arrangement	HJT Mono-Crystalline 210mm (2x66pcs)
Dimensions of Module L*W*H	2384x1303x30mm
Weight	38.7 kg
Glass	Coated, 2+2mm tempered Glass
Frame	silver
Junction Box	3 diodes, IP68, IEC 62790
Cables	4.0mm², 30cm, EN 50618, length can be customized
Mechanical Load	Front Side Max.5400Pa, Rear Side Max.2400Pa
Connector	MC4 Compatible

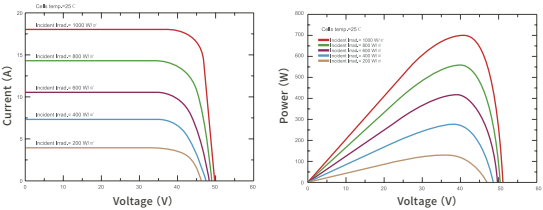
Temperature characteristics

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Temperature Coefficient of Voc	-0.223%/°C
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Operational Temperature	-40~+85°C

Packaging

	2384x1303x30mm
Container	40'HQ
Module per box	37
Module per 40' Container	666

Current-Voltage & Power-Voltage Curves



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