

JW-HD120N Series (9BB Full Frame)

Jolywood N-type Bifacial High Efficiency Monocrystalline Silicon Half-Cell Double Glass Module

- JW-HD120N-325
- JW-HD120N-330
- JW-HD120N-335
- JW-HD120N-340
- JW-HD120N-345
- JW-HD120N-350



Additional Power Generation Gain

At least 30-year product life, more than 10% - 30% additional power gain comparing with conventional module



ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally, can increase power generation



Excellent PID Free (Potential Induced Degradation)

With double glass design and POE material, of which the WVTR is only 1/10 of conventional EVA, there is no need to worry about the module power degradation caused by PID.



Lower Micro-crack Risk

No internal stress from the symmetrical N-Bifacial cell design



Higher Reliability

Successfully passed various strict tests (IEC61215, IEC61730 etc.)



Better Weak Illumination Response

Wide spectral response, higher power output even under low-light settings like smog or cloudy days.



Better Temperature Coefficient

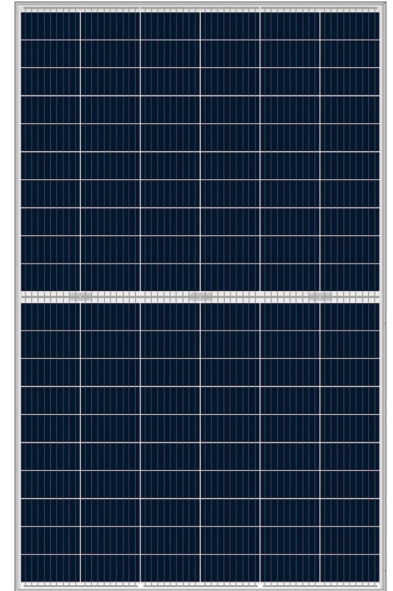
Higher power generation under working conditions, thanks to Passivating Contact Cell technology



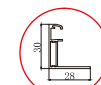
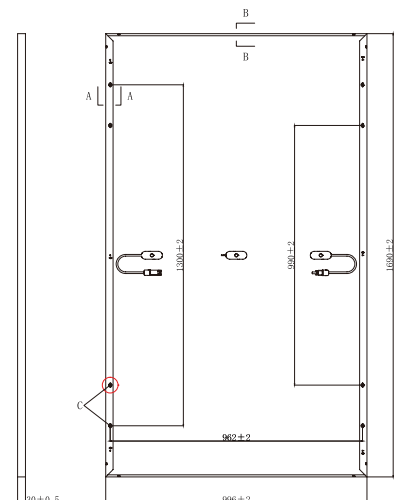
Wider Applicability

BIPV, Vertical Installation, Snowfield, High-humid Area, Windy and dusty area

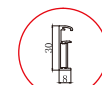
Module diagram



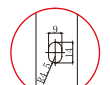
Engineering drawing (unit : mm)



A Long Frame



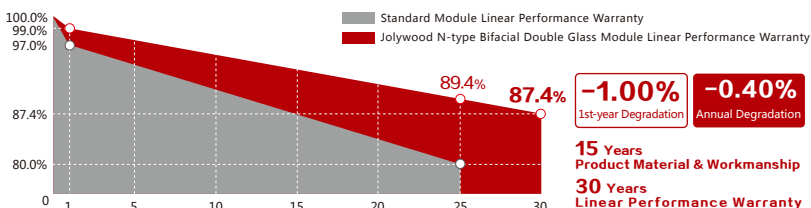
B Short Frame



C Mounting Hole



Linear map



Remark: 15 years warranty for Europe use only



Jolywood (Taizhou) Solar Technology Co., Ltd. is the world's leading manufacturer of N-type bifacial solar cells and modules. At present, we have more than 3GW production capacity of N-type monocrystalline bifacial solar cells and modules, and our technology covers the world-leading N-PERT, Passivating Contact, IBC, TBC and other cell and module technology. The parent company, Jolywood (Suzhou) Sunwatt Co., Ltd. (stock code: SZ300393), which is established in 2008 and successfully listed in the GEM in 2014, is the world's largest professional PV backsheet manufacturer, committing to becoming the world's top manufacturer of advanced integrated PV products.

JW-HD120N Series | Jolywood N-type Bifacial High Efficiency Monocrystalline Silicon Half-Cell Double Glass Module

ELECTRICAL PROPERTIES | STC*

| Module Type | JW-HD120N-325 | JW-HD120N-330 | JW-HD120N-335 | JW-HD120N-340 | JW-HD120N-345 | JW-HD120N-350 |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Testing Condition | Front Side | Front Side | Front Side | Front Side | Front Side | Front Side |
| Peak Power (Pmax) (W) | 325 | 330 | 335 | 340 | 345 | 350 |
| MPP Voltage (Vmp) (V) | 34.1 | 34.4 | 34.7 | 35.1 | 35.4 | 35.7 |
| MPP Current (Imp) (A) | 9.54 | 9.60 | 9.66 | 9.70 | 9.75 | 9.81 |
| Open Circuit Voltage (Voc) (V) | 41.0 | 41.2 | 41.5 | 41.8 | 42.1 | 42.4 |
| Short Circuit Current (Isc) (A) | 10.01 | 10.07 | 10.12 | 10.17 | 10.22 | 10.28 |
| Module Efficiency (%) | 19.31 | 19.61 | 19.90 | 20.20 | 20.50 | 20.79 |

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NOCT*

| Testing Condition | Front Side | Front Side | Front Side | Front Side | Front Side | Front Side |
|-------------------------------------|------------|------------|------------|------------|------------|------------|
| Peak Power (Pmax) (W) | 246 | 250 | 253 | 257 | 261 | 265 |
| MPP Voltage (Vmp) (V) | 32.0 | 32.3 | 32.5 | 32.9 | 33.2 | 33.5 |
| MPP Current (Imp) (A) | 7.69 | 7.74 | 7.79 | 7.82 | 7.86 | 7.91 |
| Open Circuit Voltage (Voc) (V) | 39.2 | 39.4 | 39.7 | 40.0 | 40.2 | 40.5 |
| Short Circuit Current (Isc) (A) | 8.07 | 8.12 | 8.16 | 8.20 | 8.24 | 8.29 |

*NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

OPERATING PROPERTIES >

| | |
|-------------------------------|---------------|
| Operating Temperature (°C) | -40°C~+85°C |
| Maximum System Voltage (V) | 1500V (IEC) |
| Maximum Series Fuse Rating(A) | 20 |
| Power Tolerance | 0~+5W |
| Bifaciality* | 80% |

*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%

TEMPERATURE COEFFICIENT >

| | |
|---|------------|
| Temperature Coefficient of Pmax* | -0.32%/°C |
| Temperature Coefficient of Voc | -0.26%/°C |
| Temperature Coefficient of Isc | +0.046%/°C |
| Nominal Operating Cell Temperature (NOCT) | 42±2°C |

*Temperature Coefficient of Pmax±0.03%/°C

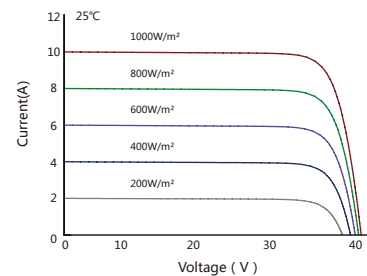
MECHANICAL PROPERTIES >

| | |
|------------------|----------------------------|
| Cell Type | 158.75mm*79.375mm |
| Number of Cells | 120pcs(12*10) |
| Dimension | 1690mm*996mm*30mm |
| Weight | 26Kg |
| Front/Rear Glass | 2.5mm/2.5mm |
| Frame | Anodized Aluminium |
| Junction Box | IP67 (3 diodes) |
| Length of Cable | 4.0mm ² , 300mm |
| Connector | MC4 Compatible |

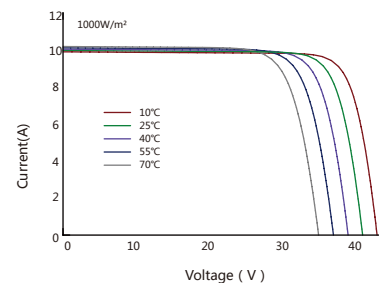
With Different Power Generation Gain (regarding 340W as an example) >

| Power Gain (%) | Peak Power (Pmax) (W) | MPP Voltage (Vmp) (V) | MPP Current (Imp) (A) | Open Circuit Voltage (Voc) (V) | Short Circuit Current (Isc) (A) |
|----------------|---------------------------|---------------------------|---------------------------|------------------------------------|-------------------------------------|
| 10 | 367 | 35.1 | 10.46 | 41.8 | 10.96 |
| 15 | 381 | 35.1 | 10.83 | 41.8 | 11.36 |
| 20 | 394 | 35.2 | 11.21 | 41.9 | 11.76 |
| 25 | 408 | 35.2 | 11.59 | 41.9 | 12.15 |
| 30 | 422 | 35.2 | 11.97 | 41.9 | 12.55 |

Irradiance Dependence of Isc, Voc and Pmax >



Temperature Dependence of Isc, Voc and Pmax >



Packaging Configuration >

| Packing Type | 20'GP | 40'GP | 40'HQ |
|------------------|-------|-------|-------|
| Piece/Pallet | | 35 | |
| Pallet/Container | 6 | 13 | 26 |
| Piece/Container | 210 | 455 | 910 |

*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Jolywood (Taizhou) Solar Technology Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.



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