

JW-HD120N

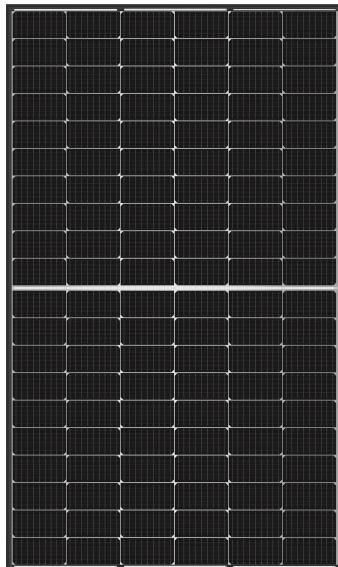
N-type Bifacial High Efficiency Mono Silicon Half-Cell Double Glass Module

375-400W

Cell Type



9BB



400W

Maximum Power Output

21.57%

Maximum Module Efficiency

0 ~ +5W

Power Output Guarantee



Additional Power Generation Gain

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



Better Weak Illumination Response

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



ZERO LID (Light Induced Degradation)

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



Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology



Lower LCOE

High power and 1500V system voltage, saving BOS cost



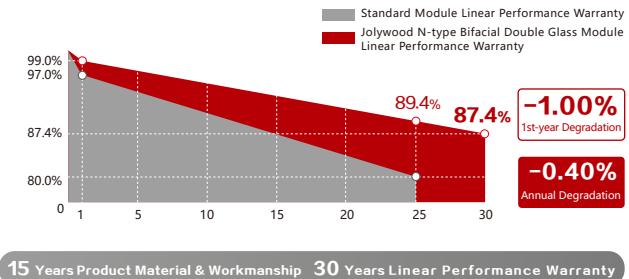
Wider Applicability

BIPV, vertical installation, snowfield, high-humid area, windy and dusty area

Jolywood Delivers Reliable Performance Over Time

- Leader of n-type bifacial technology
- Fully automatic facility and world-class technology
- Long term reliability tests
- 100% EL inspection ensuring defect-free modules

Linear Performance Warranty



Additional Insurance Backed by Munich Re



JW-HD120N Series

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

Electrical Properties		STC*					
Testing Condition		Front Side					
Peak Power (Pmax) (W)		375	380	385	390	395	400
MPP Voltage (Vmp) (V)		34.7	34.9	35.1	35.3	35.5	35.7
MPP Current (Imp) (A)		10.81	10.89	10.97	11.05	11.13	11.21
Open Circuit Voltage (Voc) (V)		41.6	41.8	42.0	42.2	42.4	42.6
Short Circuit Current (Isc) (A)		11.45	11.54	11.62	11.69	11.77	11.85
Module Efficiency (%)		20.22	20.49	20.76	21.03	21.30	21.57

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, 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					
Peak Power (Pmax) (W)		284	287	291	295	299	303
MPP Voltage (Vmp) (V)		32.5	32.7	32.9	33.1	33.3	33.5
MPP Current (Imp) (A)		8.72	8.78	8.84	8.91	8.97	9.04
Open Circuit Voltage (Voc) (V)		39.8	40.0	40.1	40.3	40.5	40.7
Short Circuit Current (Isc) (A)		9.23	9.30	9.37	9.43	9.49	9.55

*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)	25
Power Tolerance	0~+5W
Bifaciality*	80%
*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%	

Temperature Coefficient	
Temperature Coefficient of Pmax*	-0.320%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C
*Temperature Coefficient of Pmax±0.03%/°C	

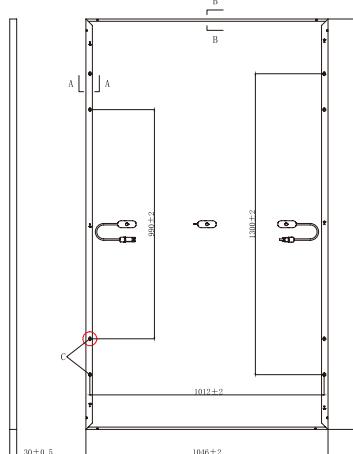
Mechanical Properties	
Cell Type	166.00mm*83.00mm
Number of Cells	120pcs(12*10)
Dimension	1773mm*1046mm*30mm
Weight	23.5kg
Front /Rear Glass*	2.0mm/2.0mm
Frame	Anodized Aluminium
Junction Box	IP68 (3 diodes)
Length of Cable*	4.0mm ² , 1200mm
Connector	MC4 Original Connector

*Heat strengthened glass

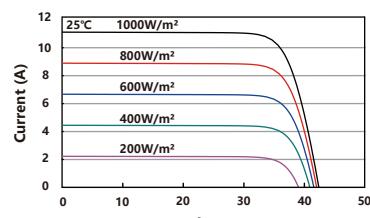
*Cable length can be customized

With Different Power Generation Gain (regarding 380W 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	410	34.9	11.75	41.8	12.44
15	426	34.9	12.18	41.8	12.89
20	441	35.0	12.61	41.9	13.34
25	456	35.0	13.04	41.9	13.79
30	471	35.0	13.47	41.9	14.24

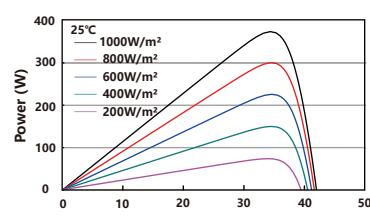
Engineering Drawing (unit: mm)



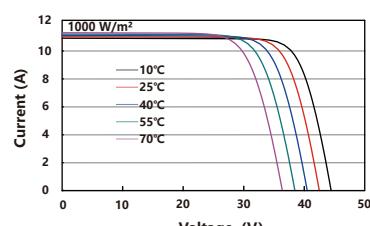
Characteristic Curves | HD120N-380



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations



I-V Characteristics At Different Temperatures

Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		36	
Pallet/Container	6	13	26
Piece/Container	216	486	936

*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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