

# JW-HT120N

N-type High Efficiency Black Mono Silicon Half-Cell Single Glass Module

**315-340W**

Cell Type



9BB



**340W**

Maximum Power Output

**20.20%**

Maximum Module Efficiency

**0~+5W**

Power Output Guarantee



### High Power Output

MBB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output



### ZERO LID (Light Induced Degradation)

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



### Lower LCOE

High power and 1500V system voltage, saving BOS cost



### 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



### Outstanding visual appearance

Designed with aesthetics in mind, thinner wires that appear all black at a distance

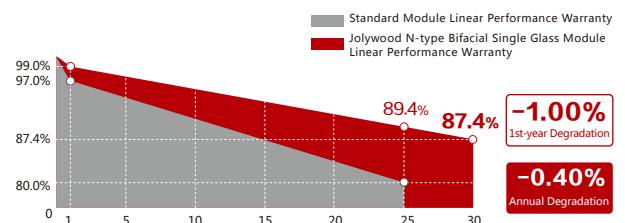
## Jolywood Delivers Reliable Performance Over Time

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

## Additional Insurance Backed by Munich Re



## Linear Performance Warranty



15 Years Product Material & Workmanship 30 Years Linear Performance Warranty

# JW-HT120N Series

## N-type High Efficiency Black Mono Silicon Half-cell Single Glass Module

### Electrical Properties | STC\*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power ( Pmax ) (W)	315	320	325	330	335	340
MPP Voltage ( Vmp ) (V)	33.5	33.8	34.1	34.4	34.7	35.1
MPP Current ( Imp ) (A)	9.42	9.48	9.54	9.60	9.66	9.70
Open Circuit Voltage ( Voc ) (V)	40.5	40.7	41.0	41.2	41.5	41.8
Short Circuit Current ( Isc ) (A)	9.91	9.96	10.01	10.07	10.12	10.17
Module Efficiency ( % )	18.71	19.01	19.31	19.61	19.90	20.20

\*STC: Irradiance 1000 W/m<sup>2</sup>, 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	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power ( Pmax ) (W)	238	242	246	250	253	257
MPP Voltage ( Vmp ) (V)	31.4	31.7	32.0	32.3	32.5	32.9
MPP Current ( Imp ) (A)	7.59	7.64	7.69	7.74	7.79	7.82
Open Circuit Voltage ( Voc ) (V)	38.7	38.9	39.2	39.4	39.7	40.0
Short Circuit Current ( Isc ) (A)	7.99	8.03	8.07	8.12	8.16	8.20

\*NOCT: Irradiance at 800 W/m<sup>2</sup>, 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*	70%

\*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

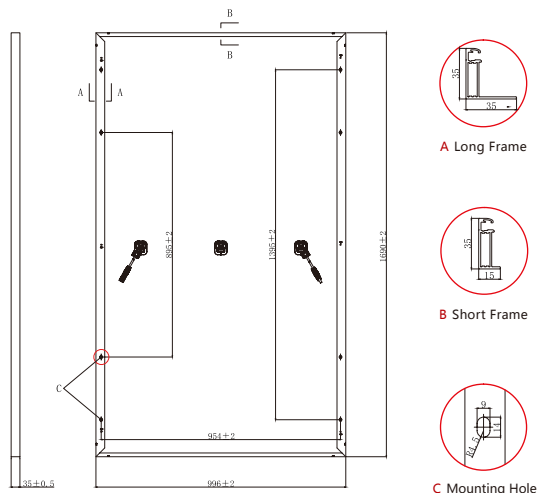
Cell Type	158.75mm*79.375mm
Number of Cells	120pcs(12*10)
Dimension	1690mm*996mm*35mm
Weight	19kg
Front Glass*	3.2mm
Frame	Anodized Aluminium
Junction Box	IP67 ( 3 diodes )
Length of Cable*	4.0mm <sup>2</sup> , 300mm Or 1200mm
Connector	MC4 Compatible Or MC4 Original Connector

\*Tempered glass  
\*Cable length can be customized

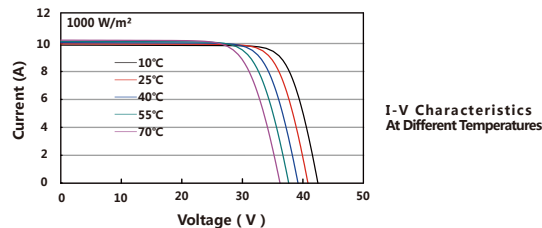
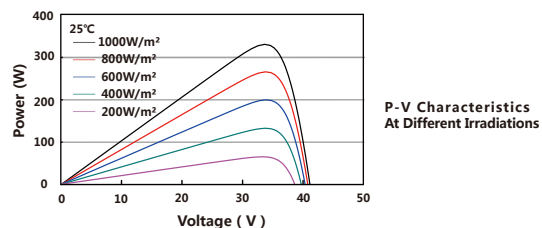
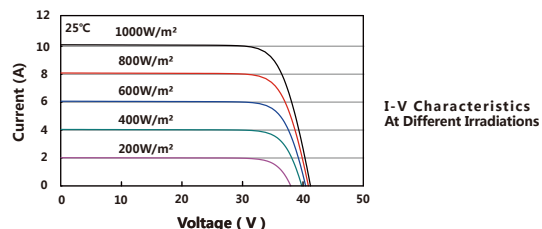
### With Different Power Generation Gain ( regarding 330W as an example )

Power Gain (%)	Peak Power ( Pmax ) (W)	MPP Voltage ( Vmp ) (V)	MPP Current ( Imp ) (A)	Open Circuit Voltage ( Voc ) (V)	Short Circuit Current ( Isc ) (A)
5	342	34.4	9.93	41.2	10.41
10	353	34.4	10.25	41.2	10.75
15	365	34.5	10.58	41.3	11.10
20	376	34.5	10.91	41.3	11.44
25	388	34.5	11.23	41.3	11.78

### Engineering Drawing ( unit : mm )



### Characteristic Curves | HT120N-330



### Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		30	
Pallet/Container	6	13	26
Piece/Container	180	390	780

\*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.

