

# JW-HT144N

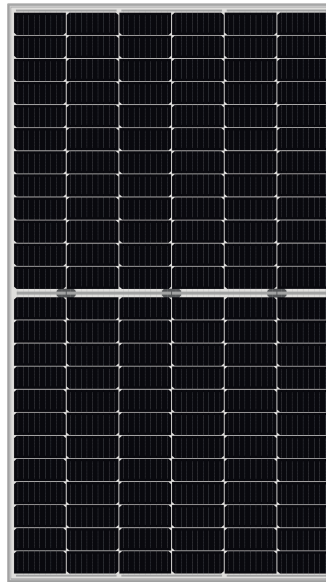
N-type Bifacial High Efficiency Mono Silicon Half-Cell Single Glass Module

**445-470W**

Cell Type



9BB



**470W**

Maximum Power Output

**21.40%**

Maximum Module Efficiency

**0~+5W**

Power Output Tolerance



### Additional Power Generation Gain

At least 30-year product life, more than 5%- 25% 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



### Lower LCOE

High power and 1500V system voltage, saving BOS cost



### Better Temperature Coefficient

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



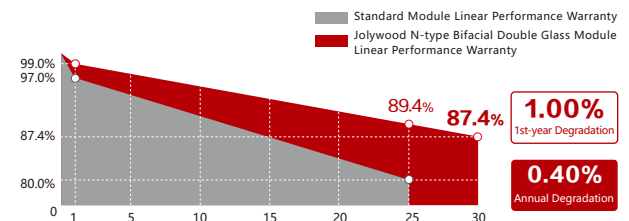
### Lighter Module Weight

Reduces weight by more than 20% compared to bifacial double glass module

## Jolywood Delivers Reliable Performance Over Time

- Leader of N-type bifacial technology
- Fully automatic facility and world-class technology
- Long term reliability tests passed
- 100% EL tests

## Linear Performance Warranty



15 Years Product Material & Workmanship 30 Years Linear Performance Warranty

## Additional Insurance Backed by Munich Re



# JW-HT144N Series

## N-type Bifacial High Efficiency 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)	445	450	455	460	465	470
MPP Voltage (Vmp) (V)	41.4	41.6	41.8	42.0	42.2	42.4
MPP Current (Imp) (A)	10.75	10.82	10.89	10.96	11.02	11.09
Open Circuit Voltage (Voc) (V)	49.8	50.0	50.2	50.4	50.6	50.8
Short Circuit Current (Isc) (A)	11.36	11.43	11.50	11.56	11.62	11.69
Module Efficiency (%)	20.26	20.49	20.71	20.94	21.17	21.40

\*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  
Power Measurement Tolerance ±3%

### Electrical Properties | NOCT\*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	337	340	344	348	352	356
MPP Voltage (Vmp) (V)	38.8	39.0	39.2	39.4	39.6	39.8
MPP Current (Imp) (A)	8.67	8.72	8.78	8.84	8.88	8.94
Open Circuit Voltage (Voc) (V)	47.6	47.8	48.0	48.2	48.4	48.6
Short Circuit Current (Isc) (A)	9.16	9.22	9.27	9.32	9.37	9.43

\*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)	25
Power Tolerance	0~+5W
Fire class	C

### 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

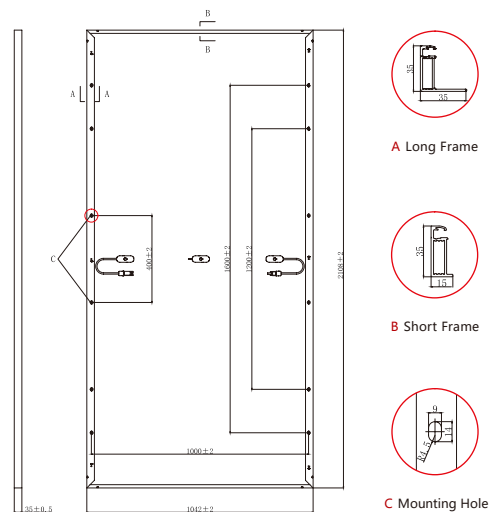
Cell Type	166.00mm*83.00mm
Number of Cells	144pcs(12*12)
Dimension	2108mm*1042mm*35mm
Weight	24.5kg
Front Glass*	3.2mm
Frame	Anodized Aluminium
Junction Box	IP68 (3 diodes)
Length of Cable*	4.0mm <sup>2</sup> , +300mm/-180mm
Connector	QC Solar QC4.10-cd / Staubli EVO2

\*Tempered glass  
\*Cable length can be customized

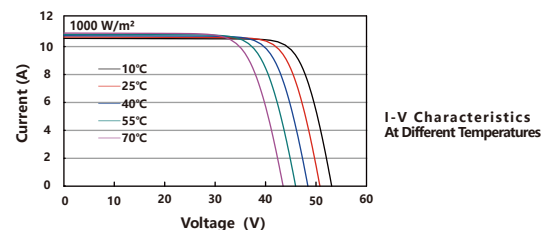
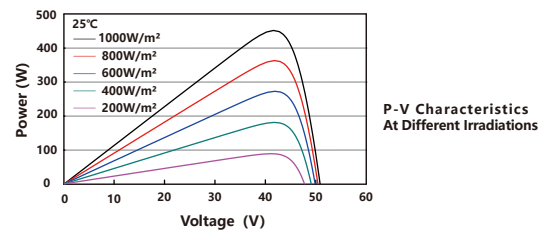
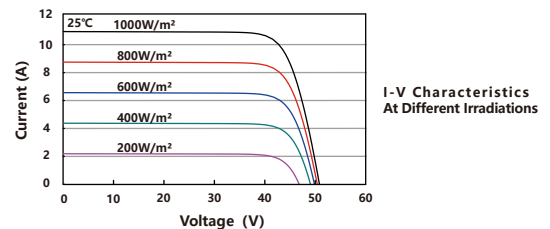
### Partner Section

NOTE :

### Engineering Drawing (unit: mm)



### Characteristic Curves | HT144N-460



### Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		31	
Pallet/Container	5	11	22
Piece/Container	155	341	682

\*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.



Made in China  
JOLYWOOD (TAIZHOU) SOLAR TECHNOLOGY CO.,LTD.  
Add: No.6 Kaiyang Rd., Jiangyan Economic Development Zone,  
Taizhou, Jiangsu Province, China, 225500  
TEL: +86 523 80612799 Email: mkt@jolywood.cn

DOC.#: TZ-MP-434 REV: A

www.jolywood.cn

