

# JW-HD144N

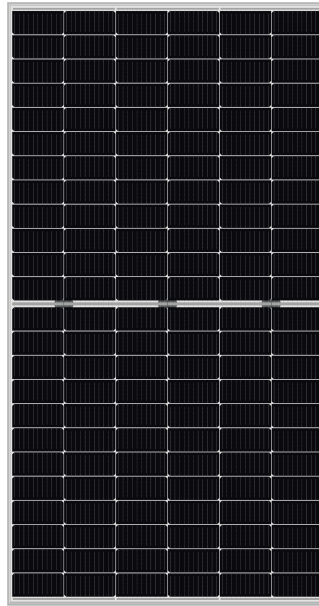
N-type  
Bifacial Double Glass Mono Module

**540-565W**

Cell Type



11BB



**565W**

Maximum Power Output

**21.80%**

Maximum Module Efficiency

**0~+5W**

Power Output Tolerance



### 10-30% Additional Power Generation Gain

30 years lifespan brings 10-30% additional power generation comparing with conventional product



### 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 bifaciality, high power output, saving BOS cost



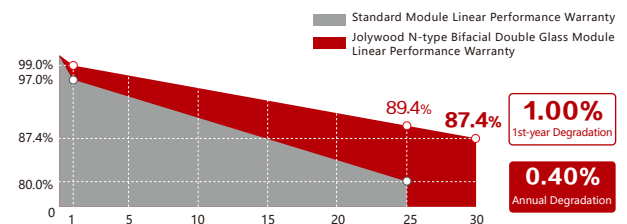
### Wider Applicability

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 passed
- BNEF Tier One

## Linear Performance Warranty



12 Years Product Material & Workmanship 30 Years Linear Performance Warranty

# JW-HD144N Series | N-type Bifacial Double Glass Mono Module

## Electrical Properties | STC\*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	540	545	550	555	560	565
MPP Voltage (Vmp) (V)	41.6	41.8	42.0	42.2	42.4	42.6
MPP Current (Imp) (A)	12.99	13.04	13.10	13.16	13.21	13.27
Open Circuit Voltage (Voc) (V)	49.8	50.0	50.2	50.4	50.6	50.8
Short Circuit Current (Isc) (A)	13.75	13.81	13.87	13.93	13.99	14.05
Module Efficiency (%)	20.84	21.03	21.23	21.42	21.61	21.80

\*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)	408	412	416	420	424	427
MPP Voltage (Vmp) (V)	39.0	39.2	39.4	39.6	39.8	39.9
MPP Current (Imp) (A)	10.47	10.51	10.56	10.61	10.65	10.70
Open Circuit Voltage (Voc) (V)	47.6	47.8	48.0	48.2	48.4	48.6
Short Circuit Current (Isc) (A)	11.09	11.13	11.18	11.23	11.28	11.33

\*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)	30
Power Tolerance	0~+5W
Bifaciality*	75%

\*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

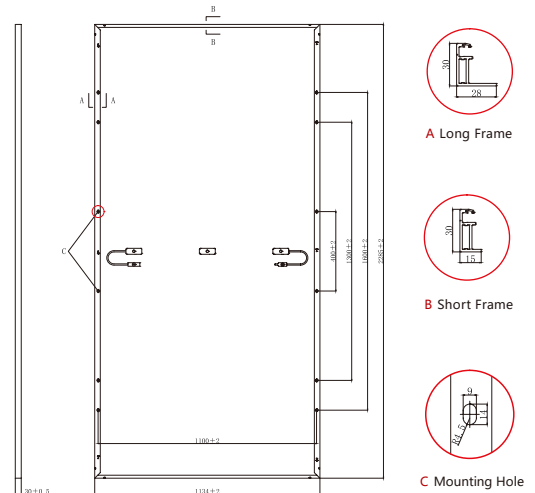
Cell Type	182.00mm*91.00mm
Number of Cells	144pcs(12*12)
Dimension	2285mm*1134mm*30mm
Weight	32.5kg
Front / Rear Glass*	2.0mm/2.0mm
Frame	Anodized Aluminium
Junction Box	IP68 (3 diodes)
Length of Cable*	4.0mm <sup>2</sup> , +300mm/-180mm
Connector	MC4 Compatible

\*Heat strengthened glass  
\*Cable length can be customized

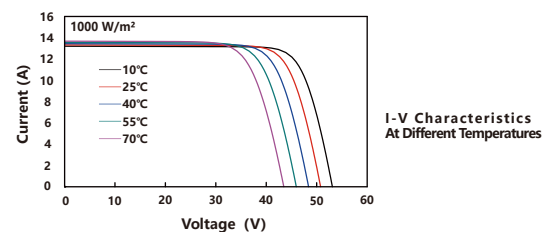
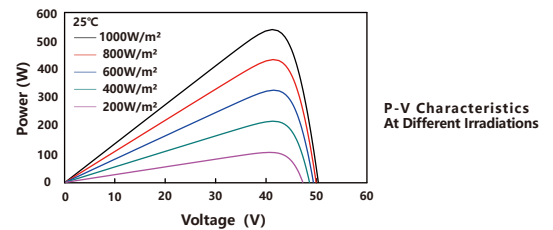
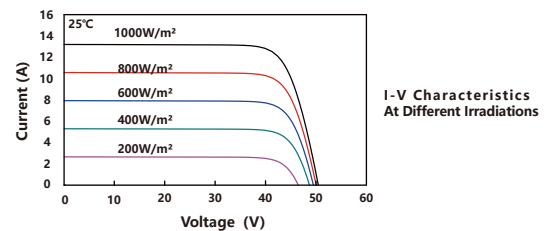
## With Different Power Generation Gain (regarding 545W as an example)

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	586	41.8	14.00	50.0	14.83
15	606	41.9	14.49	50.1	15.34
20	627	41.9	14.97	50.1	15.85
25	647	41.9	15.45	50.1	16.36
30	668	41.9	15.93	50.1	16.88

## Engineering Drawing (unit: mm)



## Characteristic Curves | HD144N-545



## Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		35	
Pallet/Container	5	10	20
Piece/Container	175	350	700

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