

JW-HD108N

N-type
Bifacial Double Glass Mono Black Module

405-425W

Cell Type



11BB



425W

Maximum Power Output

21.69%

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



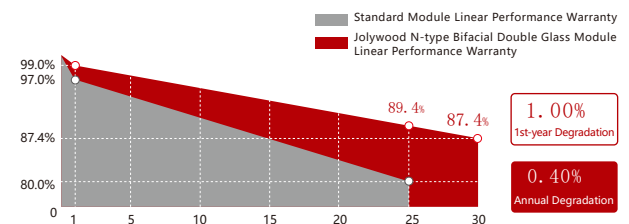
Wider Applicability

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-HD108N Series | N-type Bifacial Double Glass Mono Black Module

Electrical Properties | STC*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	405	410	415	420	425
MPP Voltage (Vmp) (V)	31.3	31.5	31.7	31.9	32.1
MPP Current (Imp) (A)	12.95	13.02	13.10	13.17	13.24
Open Circuit Voltage (Voc) (V)	37.3	37.5	37.7	37.9	38.1
Short Circuit Current (Isc) (A)	13.75	13.82	13.91	13.98	14.05
Module Efficiency (%)	20.67	20.92	21.18	21.43	21.69

*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
Power Measurement Tolerance ±3%

Electrical Properties | NOCT*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	306	310	314	318	322
MPP Voltage (Vmp) (V)	29.3	29.5	29.7	29.9	30.1
MPP Current (Imp) (A)	10.44	10.50	10.56	10.62	10.67
Open Circuit Voltage (Voc) (V)	35.7	35.8	36.0	36.2	36.4
Short Circuit Current (Isc) (A)	11.09	11.14	11.22	11.27	11.33

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

*Bifaciality= $P_{\text{maxrear}}(\text{STC}) / P_{\text{maxfront}}(\text{STC})$, Bifaciality tolerance: $\pm 5\%$

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

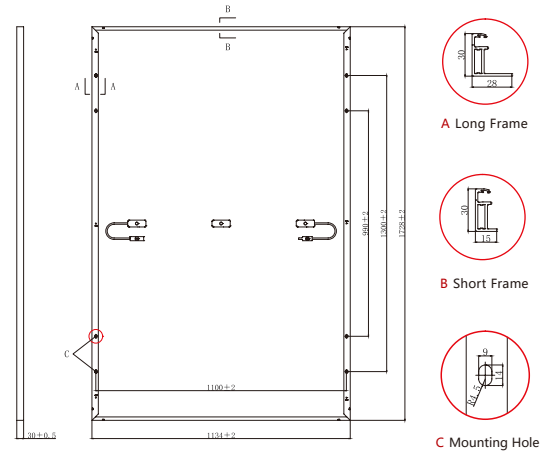
Cell Type	182.00mm*91.00mm
Number of Cells	108pcs(12*9)
Dimension	1728mm*1134mm*30mm
Weight	24.5kg
Front / Rear Glass*	2.0mm/2.0mm
Frame	Anodized Aluminium
Junction Box	IP68 (3 diodes)
Length of Cable*	4.0mm², +300mm/-180mm
Connector	MC4 Compatible

*Heat strengthened glass
*Cable length can be customized

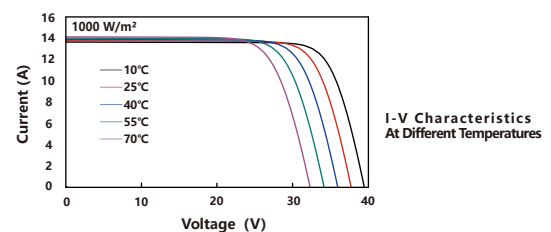
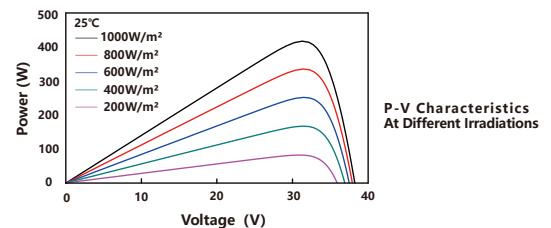
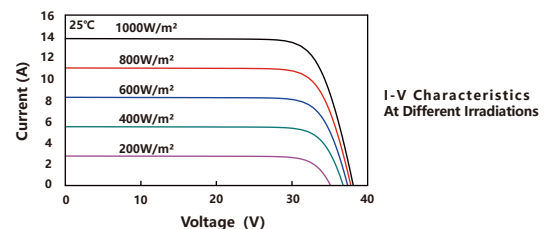
With Different Power Generation Gain (regarding 415W as an example)

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	446	31.7	14.07	37.7	14.93
15	462	31.7	14.55	37.7	15.43
20	477	31.7	15.04	37.7	15.94
25	493	31.7	15.52	37.7	16.45
30	508	31.8	16.01	37.8	16.96

Engineering Drawing (unit: mm)



Characteristic Curves | HD108N-415



Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		36	
Pallet/Container	6	13	26
Piece/Container	216	468	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.

