

JW-HD108N

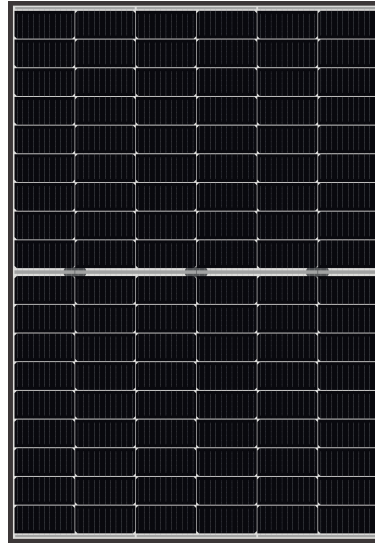
N-type High Efficiency Black Mono Silicon Half-Cell Double Glass Module

410-425W

Cell Type



11BB



425W

Maximum Power Output

21.69%

Maximum Module Efficiency

0~+5W

Power Output Tolerance



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



Lower LCOE

High bifaciality, high power output, saving BOS cost



Better Temperature Coefficient

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



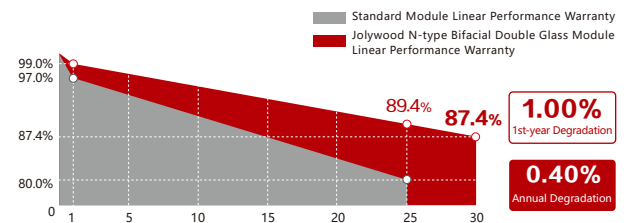
Wider Applicability

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
- 100% EL tests

Linear Performance Warranty



15 Years Product Material & Workmanship 30 Years Linear Performance Warranty

Additional Insurance Backed by Munich Re



JW-HD108N Series

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

Electrical Properties | STC*

Testing Condition	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	410	415	420	425
MPP Voltage (Vmp) (V)	31.5	31.7	31.9	32.1
MPP Current (Imp) (A)	13.02	13.10	13.17	13.24
Open Circuit Voltage (Voc) (V)	37.5	37.7	37.9	38.1
Short Circuit Current (Isc) (A)	13.82	13.91	13.98	14.05
Module Efficiency (%)	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
Peak Power (Pmax) (W)	310	314	318	322
MPP Voltage (Vmp) (V)	29.5	29.7	29.9	30.1
MPP Current (Imp) (A)	10.50	10.56	10.62	10.67
Open Circuit Voltage (Voc) (V)	35.8	36.0	36.2	36.4
Short Circuit Current (Isc) (A)	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%
Fire class	A

*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

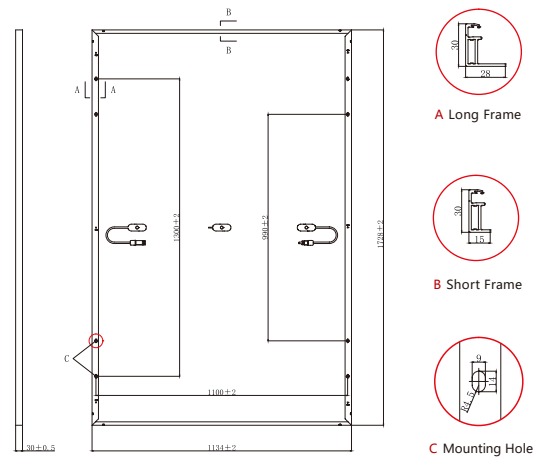
Cell Type	182.00mm*91.00mm
Number of Cells	108pcs(12*9)
Dimension	1728mm*1134mm*30mm
Weight	24.5kg
Front /Rear Glass*	2.0mm/2.0mm
Frame	Anodized Aluminium
Junction Box	IP68 (3 diodes)
Length of Cable*	4.0mm ² , 300mm
Connector	QC Solar QC4.10-cd / Staubli EVO2

*Heat strengthened glass
*Cable length can be customized

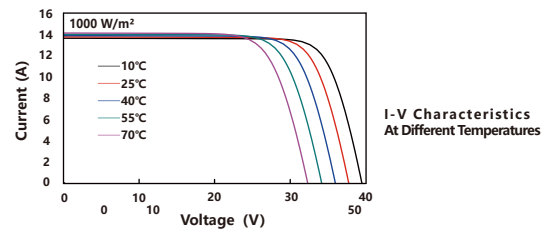
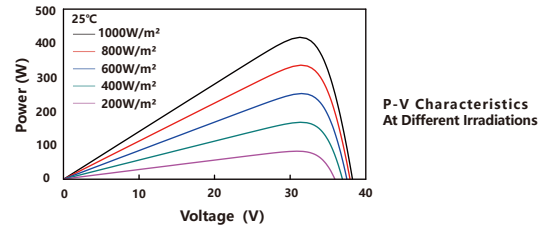
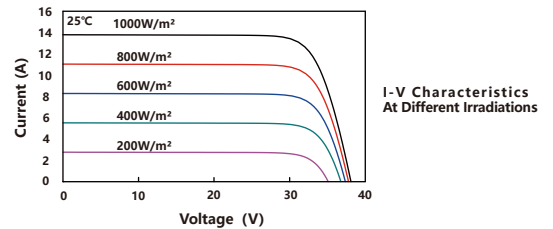
With Different Power Generation Gain (regarding 415W as an example)

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	448	31.7	14.13	37.7	14.99
15	465	31.7	14.65	37.7	15.54
20	481	31.7	15.17	37.7	16.08
25	498	31.7	15.69	37.7	16.62
30	515	31.8	16.20	37.8	17.16

Engineering Drawing (unit: mm)



Characteristic Curves | HD108N-415



Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		35	
Pallet/Container	6	13	26
Piece/Container	210	455	910

*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.

