

JW-HD108N-R2

n-type Bifacial Dual-Glass Module

JW-HD108N-R2-500 JW-HD108N-R2-505

JW-HD108N-R2-510 JW-HD108N-R2-515

JW-HD108N-R2-520 JW-HD108N-R2-525

J-TOPCon
Technology

525W

Maximum Power
Output

23.6%

Maximum Module
Efficiency

0~+3%

Power Output
Tolerance



IEC61215(2021), IEC61730(2023)



Aesthetic Design

Framed in pure black with ultra-thin busbars for seamless visual integration.



Zero LID (Light-Induced Degradation)

n-type cells are naturally LID-free, ensuring stable power output.



Optimized Temperature Coefficient

Lower operating temperature and optimized temperature coefficient ($-0.28\%/^{\circ}\text{C}$) brings more power generation.



Better Low-light Performance

Higher power output even under low-light conditions such as cloudy or foggy days.



Ultra-High Reliability

J-TOPCon New technology, greater resistance to hot-spot.



Wider Application Scenarios

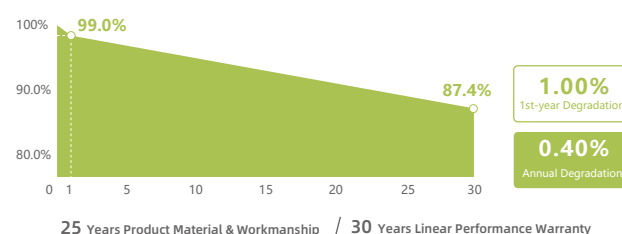
Bifacial and dual-glass design enables broader applications like vertical installation, snow/sand/high-humidity regions.

Jolywood Delivers Reliable Performance Over Time

- Leader of N-type bifacial manufacturer
- Full-automatic facility and industry-leading technology
- Best-in-class durability and reliability
- BNEF Tier One

*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.

Linear Performance Warranty



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JW-HD108N-R2 Series | n-type Bifacial Dual-Glass Module

Electrical Properties | STC*

Module Type	JW-HD108N-R2-500	JW-HD108N-R2-505	JW-HD108N-R2-510	JW-HD108N-R2-515	JW-HD108N-R2-520	JW-HD108N-R2-525
Peak Power (P _{max}) (W)	500	505	510	515	520	525
MPP Voltage (V _{mp}) (V)	33.50	33.68	33.86	34.04	34.22	34.40
MPP Current (I _{mp}) (A)	14.92	14.99	15.06	15.13	15.19	15.26
Open Circuit Voltage (V _{oc}) (V)	39.03	39.23	39.43	39.63	39.83	40.03
Short Circuit Current (I _{sc}) (A)	15.78	15.84	15.90	15.96	16.02	16.08
Module Efficiency (%)	22.5	22.7	22.9	23.2	23.4	23.6

*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%
Voc Tolerance:±4%, Isc Tolerance:±5% Testing Condition:Front Side

BNPI & Bifaciality Coefficient & BSI

Module Type	JW-HD108N-R2-500	JW-HD108N-R2-505	JW-HD108N-R2-510	JW-HD108N-R2-515	JW-HD108N-R2-520	JW-HD108N-R2-525
BNPI*	P _{max} (W)	550.0	555.5	561.0	566.5	572.0
	V _{oc} (V)	39.14	39.35	39.55	39.75	39.95
	I _{sc} (A)	17.36	17.43	17.49	17.56	17.63
Bifaciality coefficient	ΦP _{max} (±10%)	80	80	80	80	80
	ΦV _{oc} (±3%)	99	99	99	99	99
	ΦI _{sc} (±10%)	79	79	79	79	79
BSI*	I _{sc} (A)	19.29	19.36	19.44	19.52	19.58

*BNPI: Power Measurement Tolerance ±3%, Voc Tolerance:±4%, Isc Tolerance:±5%

*BSI: Isc Tolerance:±5%

Electrical Properties Under Different Rear Gain | JW-HD108N-R2-510

Power Gain (%)	Peak Power (P _{max}) (W)	MPP Voltage (V _{mp}) (V)	MPP Current (I _{mp}) (A)	Open Circuit Voltage (V _{oc}) (V)	Short Circuit Current (I _{sc}) (A)
10	561	33.86	16.57	39.43	17.49
15	587	33.86	17.32	39.43	18.29
20	612	33.96	18.02	39.53	19.04
25	638	33.96	18.77	39.53	19.83
30	663	33.96	19.52	39.53	20.62

Operating Properties

Operating Temperature (°C)	-40°C~+85°C*
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	35A
Maximum Test Load	Front side 5400Pa, Rear side 2400Pa

*T98(Max):70°C

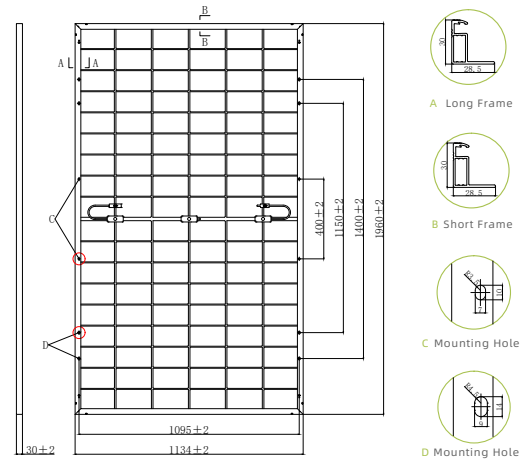
Temperature Coefficient

Temperature Coefficient of P _{max}	-0.280%/°C
Temperature Coefficient of V _{oc}	-0.250%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C
Nominal Operating Cell Temperature	45±2°C

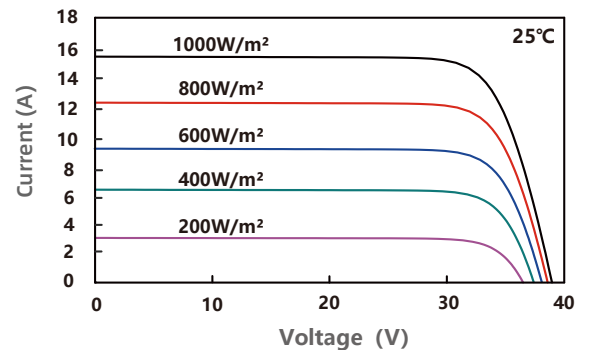
Mechanical Properties

Number of Cells	108pcs
Module Dimension	1960mm*1134mm*30mm
Weight	27.3kg
Front / Rear Glass	2.0mm/2.0mm Heat-strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +1300mm/-1300mm (Cable length can be customized)
Packaging Configuration	37pcs/Pallet, 888pcs/40'HQ
Country of Origin	China
Fire Rating	C

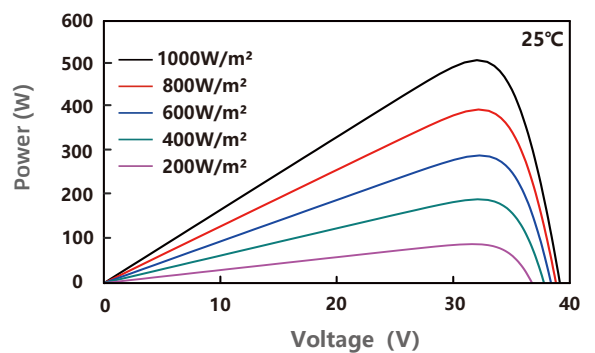
Engineering Drawing (unit: mm)



Characteristic Curves | JW-HD108N-R2-510



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations

Connector Model

Staubli: PV-KST4-EVO 2/xy UR, PV-KBT4-EVO 2/xy UR
PV-KST4-EVO 2A/xy UR, PV-KBT4-EVO 2A/xy UR

Jolywood: JWC2xyzuz Renhe: RHC2xyzuz
Zhonghuan: PV-ZH202B Xtong: PV-XT101.2

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