

JW-HD108N-R0

n-type Bifacial Dual Glass Black Frame Module

JW-HD108N-R0-425 JW-HD108N-R0-430

JW-HD108N-R0-435 JW-HD108N-R0-440

JW-HD108N-R0-445 JW-HD108N-R0-450

450W

Maximum Power Output

23.04%

Maximum Module Efficiency

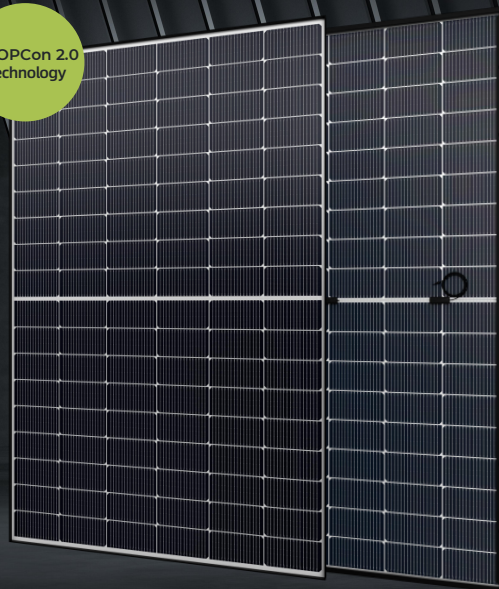
0~+3%

Power Output Tolerance



IEC61215(2021),IEC61730(2023)

J-TOPCon 2.0 Technology



10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.



ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation



Higher Reliability

New generation TOPCon technology for the battery, featuring no web coating, no current leakage, and better resistance to hot spots.



Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days



Better Temperature Coefficient

Lower temperature coefficient (-0.30%) and lower working temperature, resulting in more power.



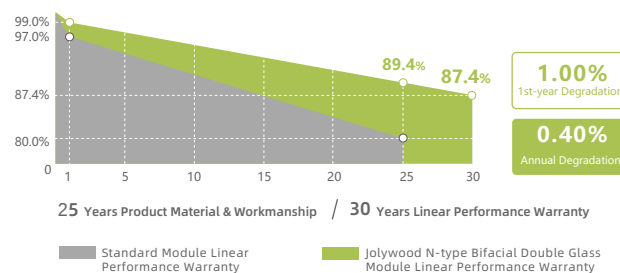
Wider Applicability

More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area

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

Linear Performance Warranty



Electrical Properties | STC*

Module Type	JW-HD108N-R0-425	JW-HD108N-R0-430	JW-HD108N-R0-435	JW-HD108N-R0-440	JW-HD108N-R0-445	JW-HD108N-R0-450
Peak Power (P _{max}) (W)	425	430	435	440	445	450
MPP Voltage (V _{mp}) (V)	32.96	33.14	33.32	33.50	33.68	33.86
MPP Current (I _{mp}) (A)	12.89	12.97	13.05	13.13	13.21	13.29
Open Circuit Voltage (V _{oc}) (V)	38.43	38.63	38.83	39.03	39.23	39.43
Short Circuit Current (I _{sc}) (A)	13.68	13.75	13.82	13.89	13.96	14.03
Module Efficiency (%)	21.76	22.02	22.28	22.53	22.79	23.04

*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

Module Type	JW-HD108N-R0-425	JW-HD108N-R0-430	JW-HD108N-R0-435	JW-HD108N-R0-440	JW-HD108N-R0-445	JW-HD108N-R0-450
BNPI	P _{max} (W)	467.50	473.00	478.50	484.00	489.50
	V _{oc} (V)	38.54	38.74	38.94	39.14	39.35
	I _{sc} (A)	15.05	15.12	15.20	15.28	15.43
	ΦP _{max} (±10%)	80	80	80	80	80
Bifaciality coefficient	ΦV _{oc} (±3%)	99	99	99	99	99
	ΦI _{sc} (±10%)	79	79	79	79	79

Electrical Properties Under Different Rear Gain | HD108N-435

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	478.50	33.32	14.36	38.83	15.21
15	500.25	33.32	15.01	38.83	15.90
20	522.00	33.32	15.67	38.83	16.59
25	543.75	33.42	16.27	38.93	17.24
30	565.50	33.42	16.92	38.93	17.93

Operating Properties

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	30
Bifaciality*	80%

Front Static Load Snow load 5400Pa, Wind load 2400Pa

*Bifaciality=P_{max}rear (STC) /P_{max}front (STC) , Bifaciality tolerance:±5%

Temperature Coefficient

Temperature Coefficient of P _{max} *	-0.300%/°C
Temperature Coefficient of V _{oc}	-0.250%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

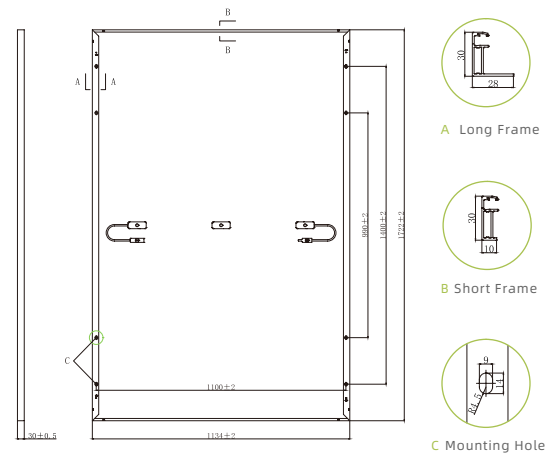
*Temperature Coefficient of P_{max}±0.03%/°C

Mechanical Properties

Number of Cells	108pcs
Module Dimension	1722mm*1134mm*30mm
Weight	24.6kg
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 , +300mm/-180mm (Cable length can be customized)
Packaging Configuration	36pcs/Pallet, 864pcs/40'HQ
Country of Origin	China
Fire Rating	C
Connector Model	QC Solar QC4.10-cds / Staubli EVO2

*The specification and key features described in this datasheet may deviate slightly and aren't 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.

Engineering Drawing (unit: mm)



Characteristic Curves | HD108N-435

