

JW-HD108N-R2

n-type Bifacial Dual-Glass **Transparent Black** Module

485-515W

J-TOPCon Technology



515W Maximum Power Output	23.2% Maximum Module Efficiency	0~+3% Power Output Tolerance
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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 reater 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 (-0.28%) and lower working temperature, resulting in more power.

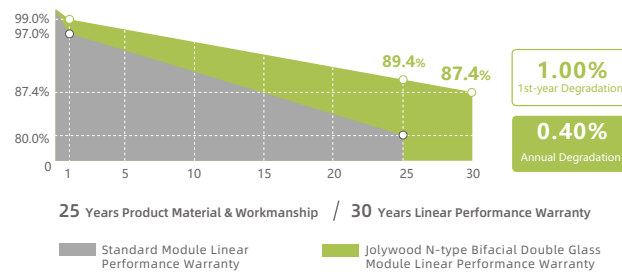


Wider Applicability
More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area.



IEC61215(2021), IEC61730(2023), IEC61701, IEC62716
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems
IEC62941: 2019: Quality system for PV module manufacturing

Linear Performance Warranty



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Electrical Properties | STC*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	485	490	495	500	505	510	515
MPP Voltage (Vmp) (V)	32.96	33.14	33.32	33.50	33.68	33.86	34.04
MPP Current (Imp) (A)	14.71	14.78	14.85	14.92	14.99	15.06	15.13
Open Circuit Voltage (Voc) (V)	38.43	38.63	38.83	39.03	39.23	39.43	39.63
Short Circuit Current (Isc) (A)	15.60	15.66	15.72	15.78	15.84	15.90	15.96
Module Efficiency (%)	21.8	22.0	22.3	22.5	22.7	22.9	23.2

*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 | NMOT*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	363	367	371	375	378	382	386
MPP Voltage (Vmp) (V)	31.56	31.73	31.91	32.08	32.25	32.42	32.60
MPP Current (Imp) (A)	11.51	11.57	11.62	11.67	11.73	11.78	11.83
Open Circuit Voltage (Voc) (V)	36.79	36.99	37.18	37.37	37.56	37.75	37.94
Short Circuit Current (Isc) (A)	12.60	12.65	12.70	12.75	12.80	12.84	12.89

*NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

Electrical Properties Under Different Rear Gain | HD108N-500

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	550	33.50	16.42	39.03	17.36
15	575	33.50	17.16	39.03	18.15
20	600	33.60	17.86	39.13	18.89
25	625	33.60	18.60	39.13	19.68
30	650	33.60	19.35	39.13	20.47

Operating Properties

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	35A
Bifaciality*	80%
Static Load	Front side 5400Pa, Rear side 2400Pa

*Bifaciality = Pmaxrear (STC) / Pmaxfront (STC), Bifaciality tolerance: ±5%

Temperature Coefficient

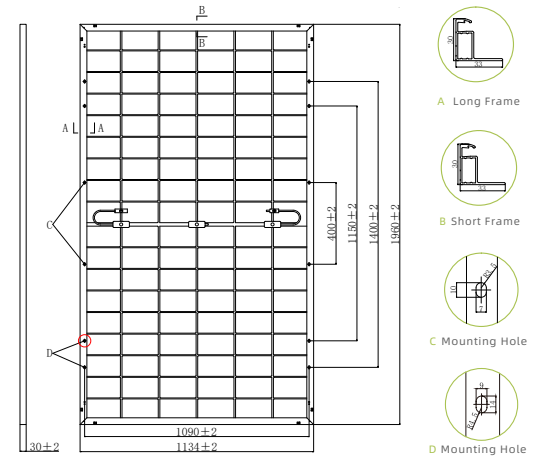
Temperature Coefficient of Pmax*	-0.280%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

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	36pcs/Pallet, 864pcs/40'HQ

*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-500

