

JW-HT108N-R3

n-type Monofacial Single Glass Black Module

JW-HT108N-R3-430 JW-HT108N-R3-435

JW-HT108N-R3-440 JW-HT108N-R3-445

JW-HT108N-R3-450 JW-HT108N-R3-455

455W

Maximum Power Output

22.77%

Maximum Module Efficiency

0~+3%

Power Output Tolerance



IEC61215(2021),IEC61730(2023)

J-TOPCon 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 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 (-0.30%) and lower working temperature, resulting in more power.



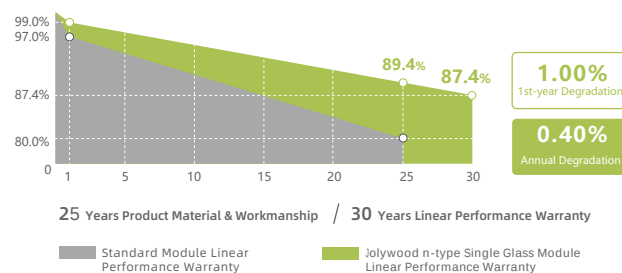
Lighter Module Weight

Reduces weight by more than 20% compared to bifacial double glass module

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-HT108N-R3-430	JW-HT108N-R3-435	JW-HT108N-R3-440	JW-HT108N-R3-445	JW-HT108N-R3-450	JW-HT108N-R3-455
Peak Power (P _{max}) (W)	430	435	440	445	450	455
MPP Voltage (V _{mp}) (V)	32.77	32.95	33.13	33.31	33.49	33.67
MPP Current (I _{mp}) (A)	13.12	13.20	13.28	13.36	13.44	13.51
Open Circuit Voltage (V _{oc}) (V)	38.17	38.37	38.57	38.77	38.97	39.17
Short Circuit Current (I _{sc}) (A)	13.93	14.00	14.07	14.14	14.21	14.28
Module Efficiency (%)	21.52	21.77	22.02	22.27	22.52	22.77

*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

Electrical Properties | NMOT*

Module Type	JW-HT108N-R3-430	JW-HT108N-R3-435	JW-HT108N-R3-440	JW-HT108N-R3-445	JW-HT108N-R3-450	JW-HT108N-R3-455
Peak Power (P _{max}) (W)	322	326	330	333	337	341
MPP Voltage (V _{mp}) (V)	31.37	31.55	31.72	31.89	32.06	32.24
MPP Current (I _{mp}) (A)	10.27	10.33	10.39	10.45	10.51	10.57
Open Circuit Voltage (V _{oc}) (V)	36.55	36.74	36.93	37.12	37.32	37.51
Short Circuit Current (I _{sc}) (A)	11.25	11.30	11.36	11.42	11.47	11.53

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

Operating Properties

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	30
Front Static Load	Snow load 5400Pa, Wind load 2400Pa

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

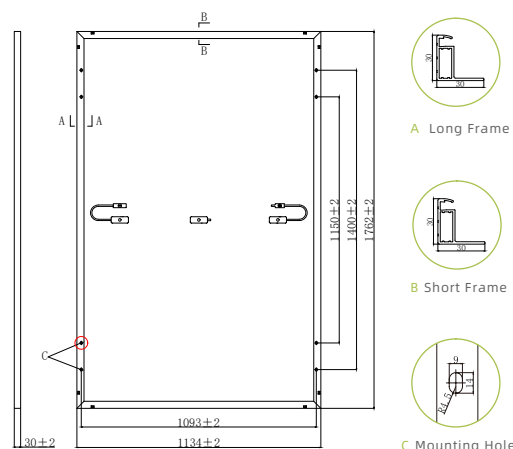
Number of Cells	108pcs
Module Dimension	1762mm*1134mm*30mm
Weight	20.0kg
Front Glass*	3.2mm Fully strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +300mm/-180mm (Cable length can be customized)
Packaging Configuration	36pcs/Pallet, 936pcs/40'HQ
Country of Origin	China
Fire Rating	C
Connector Model	QC Solar QC4.10-cds / Staubli EVO2

Partner Section

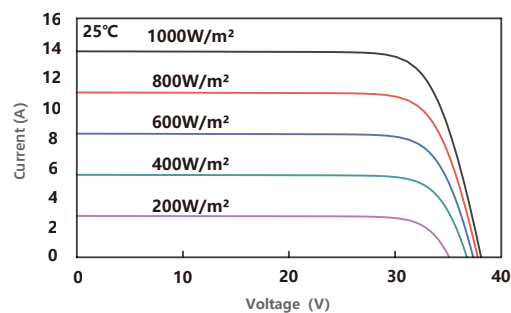
NOTE :

*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.

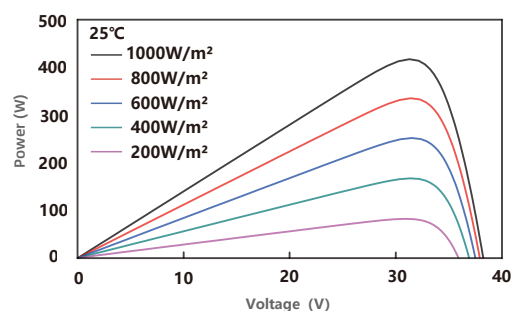
Engineering Drawing (unit: mm)



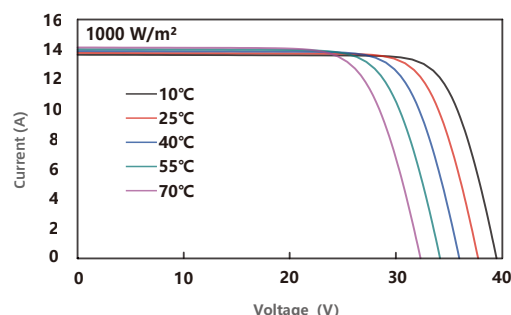
Characteristic Curves | HT108N-450



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations



I-V Characteristics At Different Temperatures

