JOLYWOOD

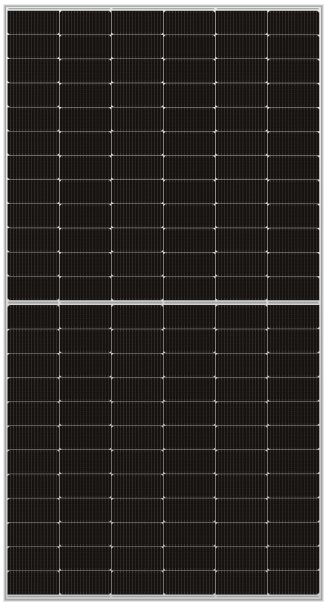
NTOPCon Technology

JW Pro Series JW-HT144N

N-type
Bifacial Singe Glass Mono Module

565-590W

IEC61215(2016), IEC61730(2016)
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems



590W
Maximum Power Output

22.84%
Maximum Module Efficiency

0~+5W
Power Output Tolerance

High Power Output
SMBB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output

ZERO LID (Light Induced Degradation)
N-type solar cell has no LID naturally which can increase power generation

Lower LCOE
Higher bifaciality, higher power output and lower BOS cost

Better Weak Illumination Response
Higher power output even under low-light environments like on cloudy or foggy days

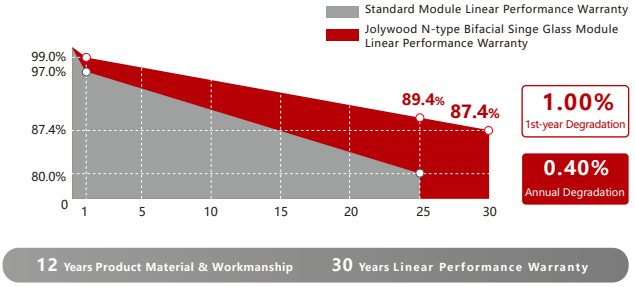
Better Temperature Coefficient
Higher power generation under working conditions, thanks to passivating contact cell technology

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



Munich RE IEC TÜV SÜD CE

S
E
N

JW-HT144N Series | N-type Bifacial Singe Glass Mono Module

Electrical Properties | STC*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	565	570	575	580	585	590
MPP Voltage (Vmp) (V)	42.6	42.8	43.0	43.2	43.4	43.6
MPP Current (Imp) (A)	13.27	13.32	13.38	13.43	13.48	13.54
Open Circuit Voltage (Voc) (V)	50.88	51.08	51.28	51.48	51.68	51.88
Short Circuit Current (Isc) (A)	14.18	14.24	14.30	14.36	14.42	14.48
Module Efficiency (%)	21.87	22.07	22.26	22.45	22.65	22.84

*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 pratical testing
Power Measurement Tolerance ±3%

Electrical Properties | NOCT*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	428	432	436	440	444	448
MPP Voltage (Vmp) (V)	40.0	40.2	40.4	40.6	40.8	41.0
MPP Current (Imp) (A)	10.70	10.74	10.79	10.84	10.89	10.93
Open Circuit Voltage (Voc) (V)	48.6	48.7	48.9	49.1	49.3	49.5
Short Circuit Current (Isc) (A)	11.33	11.38	11.42	11.46	11.5	11.54

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

Operating Properties

Operating Temperature (℃)	-40℃~+85℃
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	30
Power Tolerance	0~+5W
Bifaciality*	80%

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

Temperature Coefficient

Temperature Coefficient of Pmax*	-0.300%/℃
Temperature Coefficient of Voc	-0.250%/℃
Temperature Coefficient of Isc	+0.045%/℃
Nominal Operating Cell Temperature (NOCT)	42±2℃

*Temperature Coefficient of Pmax±0.03%/℃

Mechanical Properties

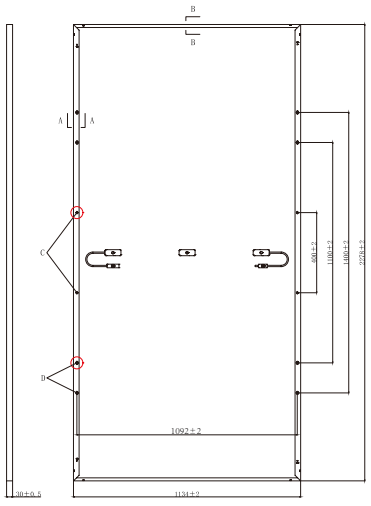
Cell Size	182.00mm*91.00mm
Number of Cells	144pcs(6*24)
Module Dimension	2278mm*1134mm*30mm
Weight	27.5kg
Front Glass*	3.2mm
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm², +300mm/-180mm (Cable length can be customized)

*Fully strengthened glass

With Different Power Generation Gain (regarding 575W 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	621	43.0	14.44	51.28	15.30
15	644	43.0	14.98	51.28	15.87
20	667	43.0	15.51	51.28	16.43
25	690	43.0	16.05	51.28	17.01
30	713	43.0	16.58	51.28	17.57

Engineering Drawing (unit: mm)



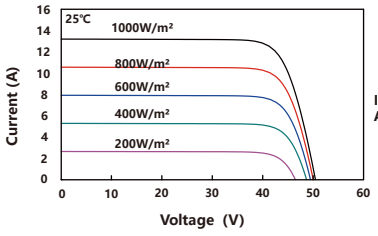

A Long Frame


B Short Frame

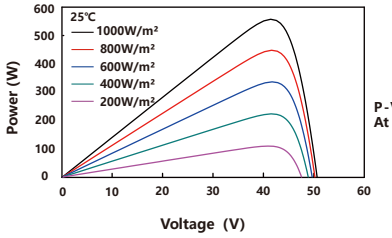

C Mounting Hole


D Mounting Hole

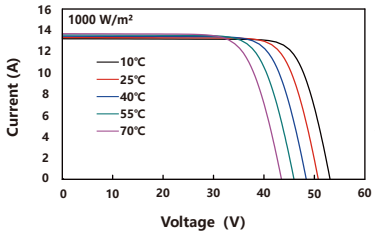
Characteristic Curves | HT144N-575



I-V Characteristics
At Different Irradiations



P-V Characteristics
At Different Irradiations



I-V Characteristics
At Different Temperatures

Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		36	
Pallet/Container	4	10	20
Piece/Container	144	360	720

*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.

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