## **JW Pro Series**



## N-Type Bifacial Double Glass Mono Module

JW-HD144N 565-590W

Maximum **590W** Power Output

Maximum Module 22.84%

Power Output 0~+3%

n-TOPCon



## **Higher Customer Value**

- Lower 1st-year and annual degradation
- Lower system BOS cost, higher power generation, lower LCOE, and higher ROI
- Dual-side power generation, with up to 30% increase in backside power generation in different installation environments, further reducing overall



### **Higher Power Generation Gain**

- Excellent IAM property and better weak illumination response
- Lower 1st-year degradation (1%) and annual degradation (0.4%)
- Lower temperature coefficient (-0.30%) and lower operating temperature, resulting in more power generation



## **High Reliability**

- Apply lastest generation TOPCon technology with lower LID and LETID
- · Apply innovative non-destructive cutting technology to reduce the risk of
- Withstand harsh environmental conditions, such as salt mist, ammonia, PID, dust and sand, and high-temperature and high-humidity



### **High Safety**

- · Lastest TOPCon technology with no polysilicon wrap around, zero leakage current and better resistance to hot-spot.
- Pass mechanical load test of 5400Pa on the front side and 2400Pa on the back













IEC61215(2021)/IEC61730(2023)/IEC61701/IEC62716

ISO9001:2015: Quality Management System ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety

IEC62941:2019: Quality system for PV module manufacturing



Version 2024.01 ©Jolywood (Taizhou) SolarTechnology Co., Ltd. All rights reserved

www.jolywood.cn

Add: No.6 Kaiyang Rd., Jiangyan Economic Development Zone, Taizhou, Jiangsu Province, China, 225500

TEL: +86 523 80612799 Email: mkt@jolywood.cn



D Mounting Hole

## **JW-HD144N** *n*-type Bifacial Double Glass Mono Module

<b>Electrical Properties</b>	STC*					
Testing Condition	Front Side					
Peak Power (Pmax) (W)	565	570	575	580	585	590
MPP Voltage (Vmp) (V)	42.60	42.80	43.00	43.20	43.40	43.60
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%

<b>Electrical Properties</b>	NWO.	Т*				
Testing Condition	Front Side					
Peak Power (Pmax) (W)	428	432	436	440	444	448
MPP Voltage (Vmp) (V)	40.00	40.20	40.40	40.60	40.80	41.00
MPP Current (Imp) (A)	10.70	10.74	10.79	10.84	10.89	10.93
Open Circuit Voltage (Voc) (V)	48.60	48.70	48.90	49.10	49.30	49.50
Short Circuit Current (Isc) (A)	11.33	11.38	11.42	11.46	11.50	11.54

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

### Electrical Properties Under Different Rear Gain | HD144N-575 Power Gain Peak Power MPP Voltage MPP Current Open Circuit Voltage Short Circuit Current (Imp) (A) (%) (Pmax) (W) (Vmp) (V) (Voc) (V) (Isc) (A) 10 621 43.00 14.44 51.28 15.30 15 644 51.28 15.87 43.00 14.98 20 43.00 16.43 25 690 43.00 16.05 51.28 17.01 43.00 30 713 16 58 51.28 17.57

<b>Operating Properties</b>	
Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V (IEC)
Maximum Series Fuse Rating	30A
Bifaciality*	80%
Front Static Load	Snow load 5400Pa, Wind load 2400Pa
*Bifosiality-Decourage (CTC) (Decoufrant (CTC)	Rifaciality talarance LE9/

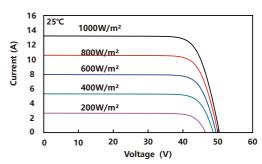
Temperature Coefficient		
Temperature Coefficient of Pmax*	-0.300%/°C	
Temperature Coefficient of Voc	-0.250%/°C	
Temperature Coefficient of Isc	+0.045%/°C	
Nominal Operating Cell Temperature (NOCT)	42±2°C	
*Temperature Coefficient of Pmax±0.03%/°C		

Specification	
Number of Cells	144pcs
Module Dimension	2278mm*1134mm*30mm
Weight	31.5kg
Front/Rear Glass*	2.0mm/2.0mm Heat strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm², +300mm/-180mm (Cable length can be customized )
Packaging Configuration	36pcs/Pallet, 720/40HQ Container

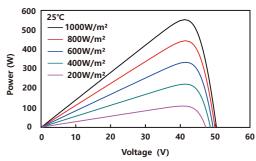
<sup>\*</sup>The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement,Jolywood(Taizhou) Solar Technology Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please alwaysobtain 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)** A Long Fram **®**⊃ **—** C Mounting Hole

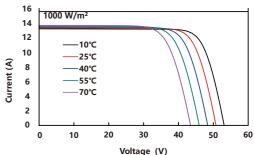
### Characteristic Curves HD144N-575



**I-V Characteristics At Different Irradiations** 



P-V Characteristics At Different Irradiations



**I-V Characteristics At Different Temperatures** 





Add: No.6 Kaiyang Rd., Jiangyan Economic Development Zone, Taizhou, Jiangsu Province, China, 225500

TEL: +86 523 80612799 Email: mkt@jolywood.cn

