



(X) JOLYWOOD

IEC61215(2016), IEC61730(2016) | 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



### 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**

Adpoted Jolywood lastest J-TOPCon2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof



### **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



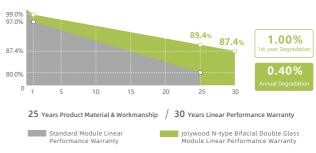
# **Outstanding visual appearance**

Designed with aesthetics in mind, thinner wires that appear all black at a distance

## 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*				
Testing Condition	Front Side				
Peak Power (Pmax) (W)	400	405	410	415	420
MPP Voltage (Vmp) (V)	31.1	31.3	31.5	31.7	31.9
MPP Current (Imp) (A)	12.87	12.95	13.02	13.10	13.17
Open Circuit Voltage (Voc) (V)	37.1	37.3	37.5	37.7	37.9
Short Circuit Current (Isc) (A)	13.67	13.75	13.82	13.91	13.98
Module Efficiency (%)	20.48	20.74	21.00	21.25	21.51

\*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				
Peak Power (Pmax) (W)	303	307	311	315	318
MPP Voltage (Vmp) (V)	29.2	29.4	29.6	29.8	30.0
MPP Current (Imp) (A)	10.38	10.44	10.50	10.56	10.62
Open Circuit Voltage (Voc) (V)	35.5	35.7	35.8	36.0	36.2
Short Circuit Current (Isc) (A)	11.02	11.09	11.14	11.22	11.27

\*NOCT: Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s

# Operating Properties Operating Temperature (°C) -40°C~+85°C 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%/°C	
Temperature Coefficient of Voc	-0.250%/°C	
Temperature Coefficient of Isc	+0.045%/℃	
Nominal Operating Cell Temperature (NOCT)	42±2℃	

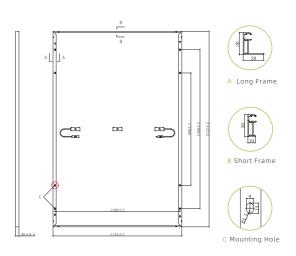
<sup>\*</sup>Temperature Coefficient of Pmax±0.03%/°C

Mechanical Properties	
Cell Size	182.00mm*91.00mm
Number of Cells	108pcs(12*9)
Module Dimension	1722mm*1134mm*30mm
Weight	24.5kg
Front / Rear Glass*	2.0mm/2.0mm
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm², +300mm/-180mm (Cable length can be customized )

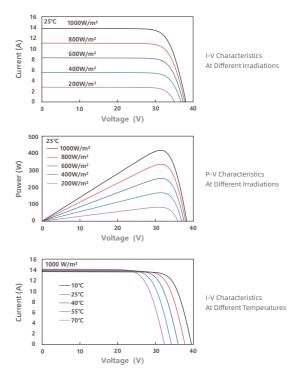
\*Heat strengthened glass

### Peak Power MPP Voltage MPP Current Open Circuit Voltage Short Circuit Current Power Gain (Pmax) (W) (Vmp) (V) (Imp) (A) (Voc)(V) (Isc) (A) (%) 14.99 10 1413 377 448 317 15 465 31.7 14.65 37.7 15.54 20 481 31.7 15.17 37.7 16.08 25 498 31.7 15.69 37.7 16.62 30 515 31.8 16.20 37.8 17.16

### Engineering Drawing (unit: mm



### Characteristic Curves | HD108N-415



Packaging Con	figuration		
Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		36	
Pallet/Container	6	13	26
Piece/Container	216	468	936

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