JW-HD108N

N-type Bifacial Mono Module with SMBB Technology

415-435W







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



- Leader of N-type bifacial manufacturer
- Full-automatic facility and industry-leading technology
- · Best-in-class durability and reliability
- BNEF Tier One



J-TOPCon 2.0

Better Weak Illumination Response

(X) JOLYWOOD

Higher power output even under low-light environments like on cloudy or foggy days



Better Temperature Coefficient

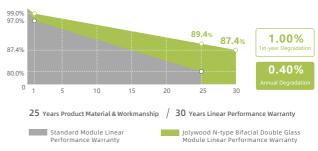
Higher power generation under working conditions, thanks to passivating contact cell technology



Wider Applicability

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

Linear Performance Warranty



*Subject to the terms and conditions contained in the applicable Jolywood Solar Limited Warranty Statement. Also this 25
-year limited product warranty is available only for products installed and operating on residential rooftops in certain regions









Electrical Properties STC*					
Testing Condition	Front Side				
Peak Power (Pmax) (W)	415	420	425	430	435
MPP Voltage (Vmp) (V)	31.7	31.9	32.1	32.3	32.5
MPP Current (Imp) (A)	13.10	13.17	13.24	13.32	13.39
Open Circuit Voltage (Voc) (V)	37.7	37.9	38.1	38.3	38.4
Short Circuit Current (Isc) (A)	13.91	13.98	14.05	14.12	14.18
Module Efficiency (%)	21.25	21.51	21.76	22.02	22.27

^{*}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)	315	318	322	326	330
MPP Voltage (Vmp) (V)	29.8	30.0	30.2	30.3	30.5
MPP Current (Imp) (A)	10.56	10.62	10.67	10.74	10.82
Open Circuit Voltage (Voc) (V)	36.0	36.2	36.4	36.6	36.8
Short Circuit Current (Isc) (A)	11.22	11.27	11.33	11.38	11.44

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%

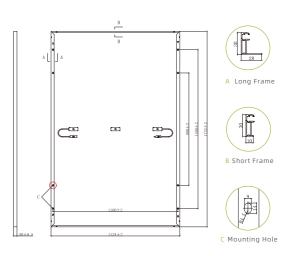
Temperature Coefficient		
Temperature Coefficient of Pmax*	-0.300%/°C	
Temperature Coefficient of Voc	-0.250%/℃	
Temperature Coefficient of Isc	+0.045%/°C	
Nominal Operating Cell Temperature (NOCT)	42±2°C	

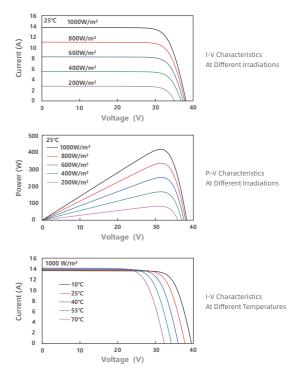
^{*}Temperature Coefficient of Pmax±0.03%/°C

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

Witl	With Different Power Generation Gain(regarding 415W as an example)					
Pow		eak Power Pmax) (W)	MPP Voltage (Vmp) (V)	MPP Current (Imp) (A)	Open Circuit Voltage (Voc) (V)	Short Circuit Current (Isc) (A)
	10	448	31.7	14.13	37.7	14.99
	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





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





