JW-HD108N

N-type Bifacial Mono Black Module

415-440W







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





Outstanding visual appearance

Designed with aesthetics in mind, thinner wires

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



J-TOPCon 2.0

Better Weak Illumination Response

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



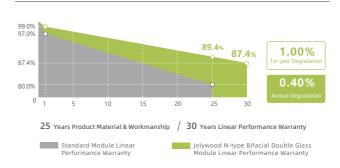
Better Temperature Coefficient

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



that appear all black at a distance

Linear Performance Warranty



Memodo Customized Modules











Electrical Properties STC*						
Testing Condition	Front Side					
Peak Power (Pmax) (W)	415	420	425	430	435	440
MPP Voltage (Vmp) (V)	31.7	31.9	32.1	32.3	32.5	32.7
MPP Current (Imp) (A)	13.10	13.17	13.24	13.32	13.39	13.46
Open Circuit Voltage (Voc) (V)	37.7	37.9	38.1	38.3	38.4	38.6
Short Circuit Current (Isc) (A)	13.91	13.98	14.05	14.12	14.18	14.25
Module Efficiency (%)	21.25	21.51	21.76	22.02	22.27	22.53

*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	334
MPP Voltage (Vmp) (V)	29.8	30.0	30.2	30.3	30.5	30.7
MPP Current (Imp) (A)	10.56	10.62	10.67	10.74	10.82	10.88
Open Circuit Voltage (Voc) (V)	36.0	36.2	36.4	36.6	36.8	37.0
Short Circuit Current (Isc) (A)	11.22	11.27	11.33	11.38	11.44	11.49

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% Front Static Load Snow load 5400Pa, Wind load 2400Pa

^{*}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

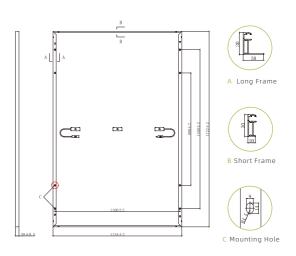
Mechanical Properties	
Cell Size	182.00mm*91.00mm
Number of Cells	108pcs(12*9)
Module Dimension	1722mm*1134mm*30mm
Weight	24.5kg
Front / Rear Glass*	2.0mm/2.0mm
Frame	Black Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm², 1.4m
Connector *Heat strengthened glass	MC4 Original

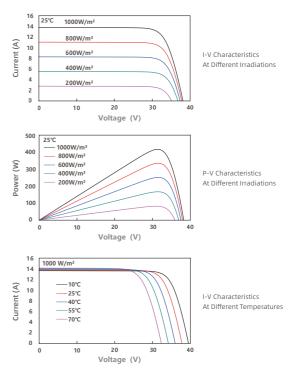
With Different Power Generation Gain(regarding 415W as an example)						
Power Gain (%)	Peak Power (Pmax) (W)	MPP Voltage (Vmp) (V)	MPP Current (Imp) (A)	Open Circuit Voltage (Voc) (V)	Short Circuit Current (Isc) (A)	
10	448	31.7	14.13	37.7	14.99	
15	465	31.7	14.65	37.7	15.54	
20	481	31.7	15.17	37.7	16.08	
25	498	31.7	15.69	37.7	16.62	
30	515	31.8	16.20	37.8	17.16	

JOLYWOOD (TAIZHOU) SOLAR

TECHNOLOGY CO.,LTD.

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Packaging Configuration					
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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