JW-HD120N Series (9BB Full Frame)

Jolywood N -type Bifacial High Efficiency Monocrystalline Silicon Half-Cell Double Glass Module







- · JW-HD120N-325
- · JW-HD120N-335
- · JW-HD120N-345
- · JW-HD120N-330
 - · JW-HD120N-340
 - · JW-HD120N-350



Additional Power Generation Gain

At least 30-year product life, more than 10% - 30% additional power gain comparing with conventional module



ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally, can increase power generation



Excellent PID Free (Potential Induced Degradation)

With double glass design and POE material, of which the WVTR is only 1/10 of conventional EVA, there is no need to worry about the module power degradation caused by PID.



Lower Micro-crack Risk

No internal stress from the symmetrical N-Bifacial cell design



Higher Reliability

Successfully passed various strict tests (IEC61215, IEC61730 etc.)



Better Weak Illumination Response

Wide spectral response, higher power output even under low-light settings like smog or cloudy days.



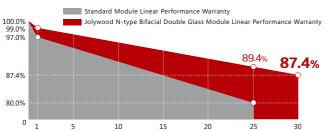
Better Temperature Coefficient

Higher power generation under working conditions. thanks to Passivating Contact Cell technology



Wider Applicability

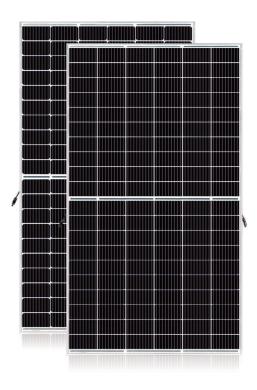
BIPV, Vertical Installation, Snowfield, High-humid Area, Windy and dusty area



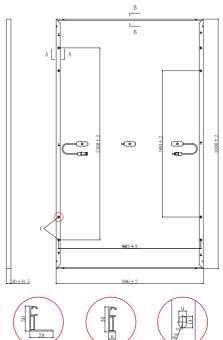


12 Years Product Material & Workmanship

30 Years Linear Performance Warranty



ENGINEERING DRAWING (unit:mm)



B Short Frame

C Mounting Hole

A Long Frame



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ELECTRICAL PROPERTIES STC*						
Module Type	JW-HD120N-325	JW-HD120N-330	JW-HD120N-335	JW-HD120N-340	JW-HD120N-345	JW-HD120N-350
Testing Condition	Front Side					
Peak Power (Pmax) (W)	325	330	335	340	345	350
MPP Voltage (Vmp) (V)	34.1	34.4	34.7	35.1	35.4	35.7
MPP Current (Imp) (A)	9.54	9.60	9.66	9.70	9.75	9.81
Open Circuit Voltage (Voc) (V)	41.0	41.2	41.5	41.8	42.1	42.4
Short Circuit Current (Isc) (A)	10.01	10.07	10.12	10.17	10.22	10.28
Module Efficiency (%)	19.31	19.61	19.90	20.20	20.50	20.79

^{*}STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
The data above is for reference only and the actual data is in accordance with the pratical testing

ELECTRICAL PROPERTIES NOCT*						
Testing Condition	Front Side					
Peak Power (Pmax) (W)	246	250	253	257	261	265
MPP Voltage (Vmp) (V)	32.0	32.3	32.5	32.9	33.2	33.5
MPP Current (Imp) (A)	7.69	7.74	7.79	7.82	7.86	7.91
Open Circuit Voltage (Voc) (V)	39.2	39.4	39.7	40.0	40.2	40.5
Short Circuit Current (Isc) (A)	8.07	8.12	8.16	8.20	8.24	8.29

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

OPERATING PROPERTIES >		
Operating Temperature (°C)	-40°C~+85°C	
Maximum System Voltage (V)	1500V (IEC)	
Maximum Series Fuse Rating(A)	20	
Power Tolerance	0~+5W	
Bifaciality*	80%	

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

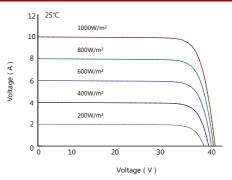
TEMPERATURE COEFFICIENT >		
Temperature Coefficient of Pmax*	-0.32%/°C	
Temperature Coefficient of Voc	-0.26%/°C	
Temperature Coefficient of Isc	+0.046%/°C	
Nominal Operating Cell Temperature (NOCT)	42±2°C	

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

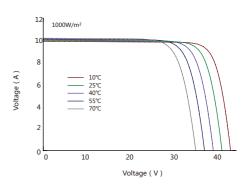
MECHANICAL PROPERTIES > 158.75mm*79.375mm Cell Type Number of Cells 120pcs(12*10) 1690mm*996mm*30mm Dimension Weight 26Kg Front/Rear Glass 2.5mm/2.5mm Anodized Aluminium Frame Junction Box IP67 (3 diodes) Length of Cable 4.0mm² , 300mm Connector MC4 Compatible

With Diffe	With Different Power Generation Gain (regarding 340W 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	367	35.1	10.46	41.8	10.96		
15	381	35.1	10.83	41.8	11.36		
20	394	35.2	11.21	41.9	11.76		
25	408	35.2	11.59	41.9	12.15		
30	422	35.2	11.97	41.9	12.55		

Irradiance Dependence of Isc, Voc and Pmax >



Temperature Dependence of Isc, Voc and Pmax >



^{*}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 descri-

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