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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Jolywood (Suzhou) Sunwatt Co., Ltd.  
JW-D60N Series (Multi-Busbar Full Frame)  
JW-D60N-325**

Also available on the web at  
[EnergyPal.com/jolywood-suzhou-sunwatt-co-ltd-solar-panels/jw-d60n-325](http://EnergyPal.com/jolywood-suzhou-sunwatt-co-ltd-solar-panels/jw-d60n-325)

# JW-D60N Series (Multibusbar Full Frame)

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



- JW-D60N-305 · JW-D60N-310
- JW-D60N-315 · JW-D60N-320
- JW-D60N-325



### 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 scheme



### 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.



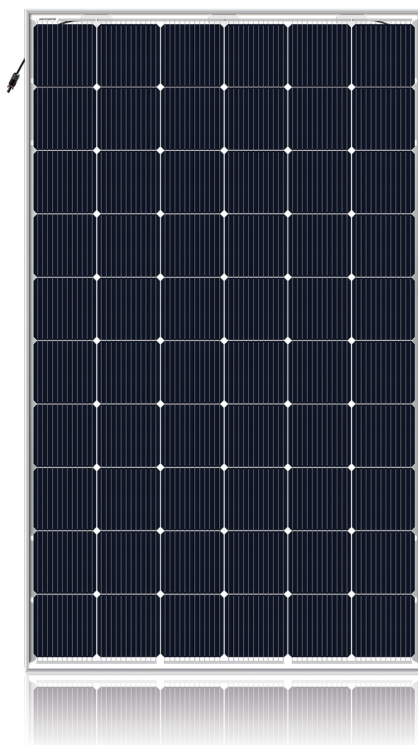
### Better Temperature Coefficient

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

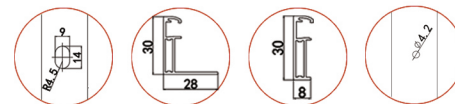
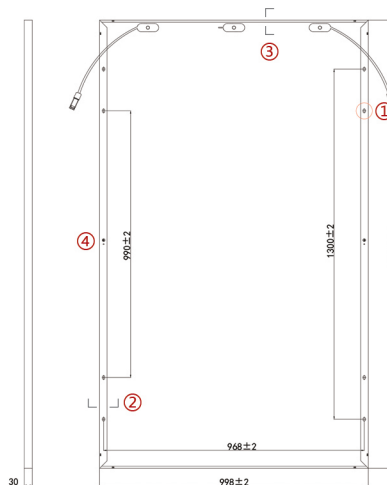


### Wider Applicability

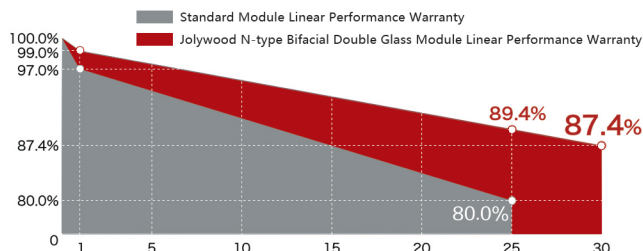
BIPV, Vertical Installation, Snowfield, High-humid Area, Windy and dusty area



ENGINEERING DRAWING ( unit : mm )



① Mounting Hole ② Long Frame ③ Short Frame ④ Grounding Hole



**-1.00%**  
1st-year Degradation

**-0.40%**  
Annual Degradation

**12 Years Product Material & Workmanship**

**30 Years Linear Performance Warranty**



Jolywood (Taizhou) Solar Technology Co., Ltd. is the world's leading manufacturer of N-type bifacial solar cells and modules. At present, we have more than 3GW production capacity of N-type monocrystalline bifacial solar cells and modules, and our technology covers the world-leading N-PERT, Passivating Contact, IBC, TBC and other cell and module technology. The parent company, Jolywood (Suzhou) Sunwatt Co., Ltd. (stock code: SZ300393), which is established in 2008 and successfully listed in the GEM in 2014, is the world's largest professional PV backsheet manufacturer, committing to becoming the world's top manufacturer of advanced integrated PV products.

# JW-D60N Series

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

## ELECTRICAL PROPERTIES | STC\*

Module Type	JW-D60N-305	JW-D60N-310	JW-D60N-315	JW-D60N-320	JW-D60N-325
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	305	310	315	320	325
MPP Voltage (Vmp) (V)	32.8	33.2	33.7	34.3	34.7
MPP Current (Imp) (A)	9.32	9.34	9.36	9.38	9.39
Open Circuit Voltage (Voc) (V)	39.5	40.0	40.5	41.1	41.4
Short Circuit Current (Isc) (A)	9.83	9.86	9.89	9.92	9.95
Module Efficiency (%)	18.37	18.67	18.97	19.27	19.57

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

## ELECTRICAL PROPERTIES | NOCT\*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	231	235	238	242	246
MPP Voltage (Vmp) (V)	30.7	31.1	31.6	32.0	32.5
MPP Current (Imp) (A)	7.51	7.53	7.55	7.56	7.57
Open Circuit Voltage (Voc) (V)	37.8	38.2	38.7	39.3	39.5
Short Circuit Current (Isc) (A)	7.93	7.95	7.97	8.00	8.02

NOCT: Irradiance at 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 ( IEC ) /1000V ( UL )
Maximum Series Fuse Rating(A)	20
Power Tolerance	0~+5W
Bifaciality	Mesh 80%, Transparent 85%

\* Bifaciality= $P_{max\text{rear}}(STC) / P_{max\text{front}}(STC)$  , 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

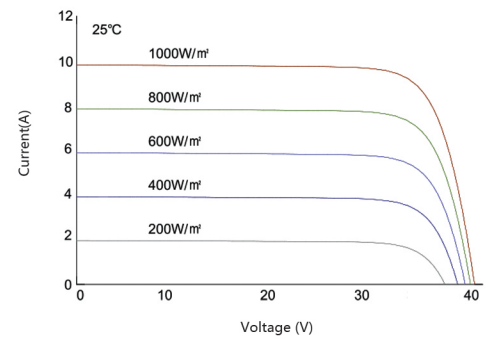
## MECHANICAL PROPERTIES >

Cell Type	157.35mm*157.35mm
Number of Cells	60pcs(6*10)
Dimension	1664mm*998mm*30mm
Weight	25Kg
Front/Rear Glass	2.5mm/2.5mm
Frame	Anodized Aluminium
Junction Box	IP67 ( 3 diodes )
Length of Cable	4.0mm <sup>2</sup> , 300mm
Connector	MC4 Compatible

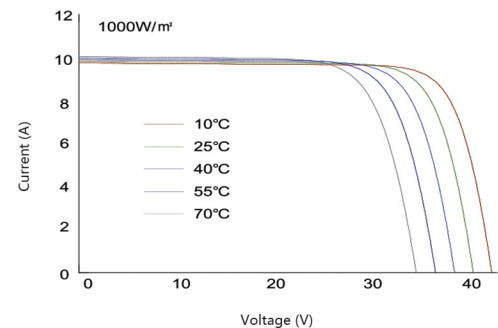
## With Different Power Generation Gain ( regarding 315W as an example )

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	340	33.7	10.09	40.6	10.66
15	353	33.7	10.46	40.6	11.05
20	365	33.8	10.82	40.7	11.43
25	378	33.8	11.19	40.7	11.82
30	391	33.8	11.55	40.8	12.20

## 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 described herein.



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