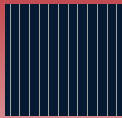


# JW-D72N

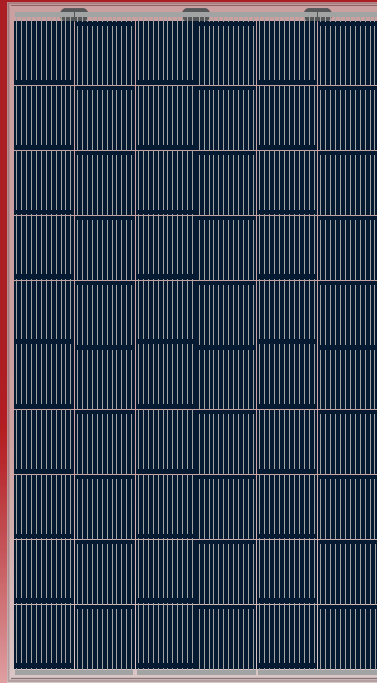
N-type Bifacial High Efficiency Mono Silicon Double Glass Module

JW-D72N-405    JW-D72N-410

Cell Type



12BB



**410W**

Maximum Power Output

**20.66%**

Maximum Module Efficiency

**0~+5W**

Power Output Guarantee

Regarding 410W as an example



**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



**Lower LCOE**

High power and 1500V system voltage, saving BOS cost



**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



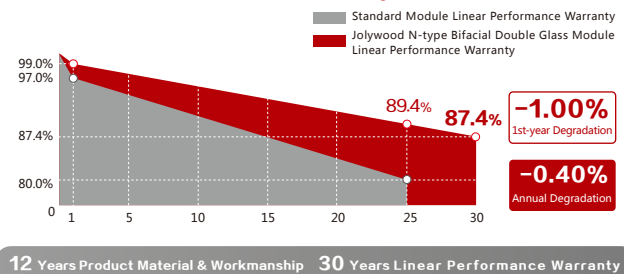
**Wider Applicability**

BIPV, vertical installation, snowfield, high-humid area, windy and dusty area

**Jolywood Delivers Reliable Performance Over Time**

- Leader of n-type bifacial technology
- Fully automatic facility and world-class technology
- Long term reliability tests
- 100% EL inspection ensuring defect-free modules

**Linear Performance Warranty**



**Additional Insurance Backed by Munich Re**



# JW-D72N Series

## N-type Bifacial High Efficiency Mono Silicon Double Glass Module

### Electrical Properties | STC\*

Module Type	JW-D72N-405	JW-D72N-410
Testing Condition	Front Side	Front Side
Peak Power ( Pmax ) (W)	405	410
MPP Voltage ( Vmp ) (V)	41.8	42.1
MPP Current ( Imp ) (A)	9.69	9.74
Open Circuit Voltage ( Voc ) (V)	50.1	50.4
Short Circuit Current ( Isc ) (A)	10.19	10.24
Module Efficiency ( % )	20.41	20.66

\*STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5  
The data above is for reference only and the actual data is in accordance with the practical testing  
\*Tolerance : Pmax±3% ; Voc±4% ; Isc±5%

### Electrical Properties | NOCT\*

Testing Condition	Front Side	Front Side
Peak Power ( Pmax ) (W)	306	310
MPP Voltage ( Vmp ) (V)	39.2	39.5
MPP Current ( Imp ) (A)	7.81	7.85
Open Circuit Voltage ( Voc ) (V)	47.9	48.2
Short Circuit Current ( Isc ) (A)	8.22	8.26

\*NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s  
\*Tolerance : Pmax±3% ; Voc±4% ; Isc±5%

### 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*	-0.320%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C
Fire Safety	Class C

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

### Mechanical Properties

Cell Type	158.75mm*158.75mm
Number of Cells	72pcs(6*12)
Dimension	1992mm*996mm*30mm
Weight	29.5Kg
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	QC4.10-cd PV-KST4-EVO2/xy_UR;PV-KBT4-EVO2/xy_UR

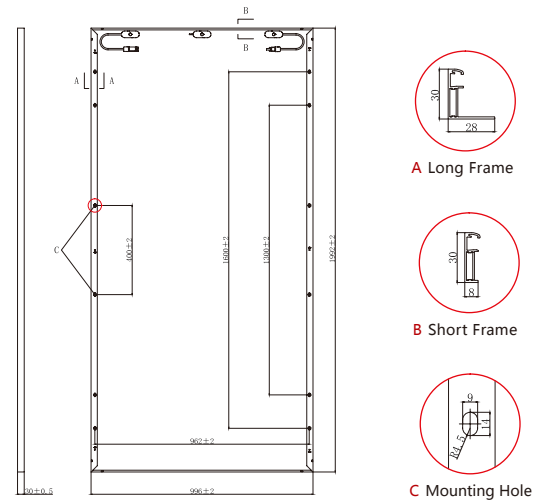
\*Heat strengthened glass  
\*Cable length can be customized

### With Different Power Generation Gain ( regarding 405W as an example )

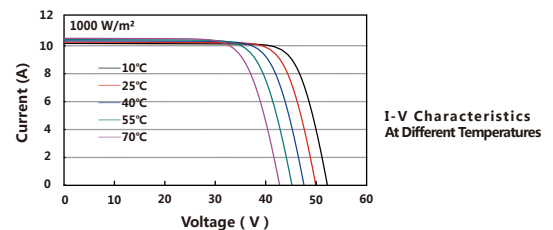
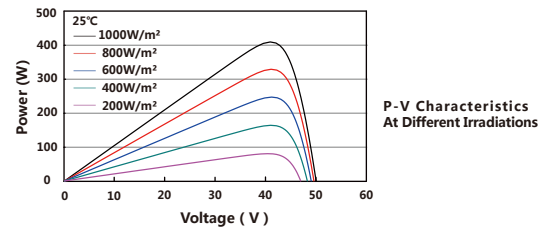
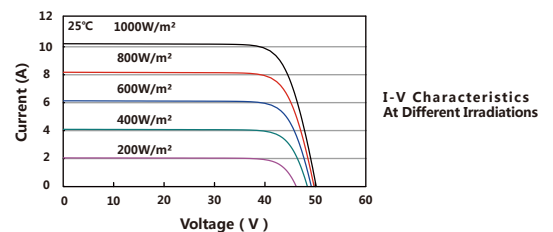
Power Gain (%)	Peak Power ( Pmax ) (W)	MPP Voltage ( Vmp ) (V)	MPP Current ( Imp ) (A)	Open Circuit Voltage ( Voc ) (V)	Short Circuit Current ( Isc ) (A)
10	437	41.8	10.46	50.1	10.98
15	454	41.9	10.84	50.2	11.38
20	470	41.9	11.22	50.2	11.78
25	486	41.9	11.60	50.2	12.18
30	502	41.9	11.99	50.2	12.57

\*Tolerance : Pmax±3% ; Voc±4% ; Isc±5%

### Engineering Drawing ( unit : mm )



### Characteristic Curves | D72N-405



### Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		35	
Pallet/Container	5	11	22
Piece/Container	175	385	770

\*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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