

JW-HF144N Series (9BB)

Jolywood N-type High Efficiency Monocrystalline Silicon Light and Flexible Module



- JW-HF144N-365
- JW-HF144N-370
- JW-HF144N-375
- JW-HF144N-380
- JW-HF144N-385



Light

The module has no glass on the surface, but it has a special frame. Such module with the same contour realizes a weight reduction of up to more than 70%.



Bendable

The industry-leading composite materials and unique packaging technology provide this light flexible module with some bendability, which allows it to perfectly fit the curved surface. The product is suitable for various application scenarios.



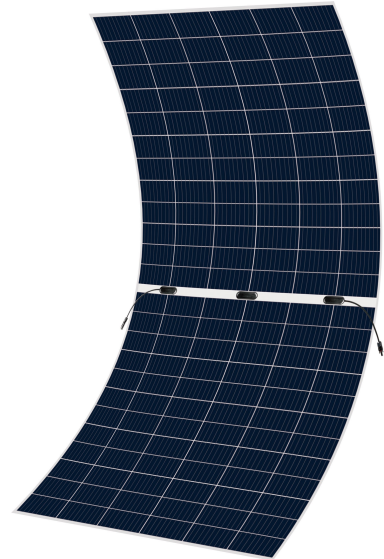
No Cracks

The front snow pressure test, back wind load certification test, PID test, various experimental and project empirical detections as well as the strict quality management and selected materials ensure the long-term reliability of the module.

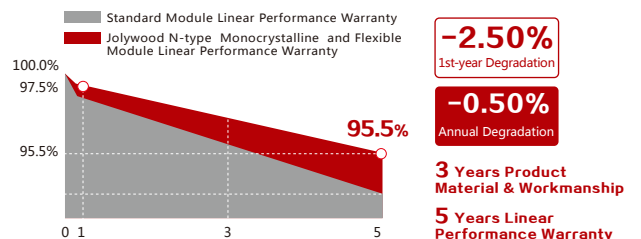
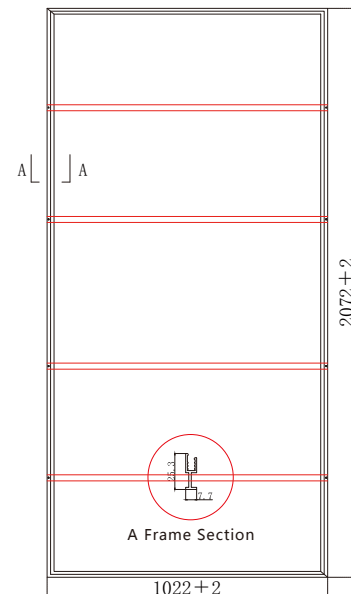


Easy Installation

The custom design (light system) together with the ease to handle and quick installation can significantly save on the installation costs.



ENGINEERING DRAWING (unit : mm)



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.

ELECTRICAL PROPERTIES | STC*

Module Type	JW-HF144N-365	JW-HF144N-370	JW-HF144N-375	JW-HF144N-380	JW-HF144N-385
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	365	370	375	380	385
MPP Voltage (Vmp) (V)	39.8	40.2	40.5	40.8	41.1
MPP Current (Imp) (A)	9.17	9.20	9.26	9.31	9.37
Open Circuit Voltage (Voc) (V)	48.0	48.5	48.8	49.2	49.6
Short Circuit Current (Isc) (A)	9.61	9.64	9.70	9.76	9.82
Module Efficiency (%)	17.24	17.47	17.71	17.95	18.18

*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 practical testing

ELECTRICAL PROPERTIES | NOCT*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	276	280	284	287	291
MPP Voltage (Vmp) (V)	37.3	37.7	38.0	38.3	38.6
MPP Current (Imp) (A)	7.39	7.42	7.47	7.51	7.55
Open Circuit Voltage (Voc) (V)	45.9	46.3	46.7	47.0	47.4
Short Circuit Current (Isc) (A)	7.75	7.77	7.82	7.87	7.92

*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)	1000V (IEC)
Maximum Series Fuse Rating(A)	20
Power Tolerance	0~+5W

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

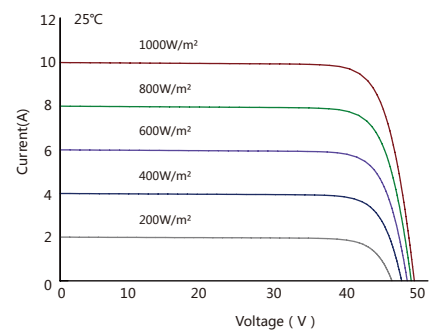
MECHANICAL PROPERTIES >

Cell Type	158.75mm*79.375mm
Number of Cells	144片(12*12)
Dimension	2072mm*1022mm*7.7mm
Weight	12.5kg
Frame	Anodized Aluminium
Junction Box	IP67 (3 diodes)
Length of Cable	4.0mm ² , 300mm
Connector	MC4 Compatible

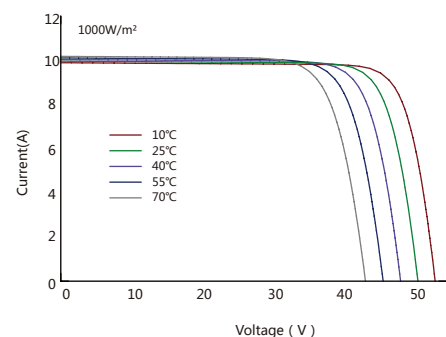
PARTNER SECTION >

NOTE :

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.

