

Lightweight and Flexible, Self-Cleaning and Dust-Resistant

JY Series Lightweight Flexible Modules



20 Years

of Polymer Materials
Expertise
Proven Outdoor
Performance

20,000⁺

Hours
of Aging Tests

Product Features



Ultra-lightweight and highly flexible, suitable for a wide range of applications with low load-bearing requirements.



Proprietary encapsulation materials with outstanding weather resistance and moisture protection.



Self-cleaning surface minimizes dust accumulation and ensures long-term high performance.

Technical Support & Advanced Material Technologies



Polymer Chain Group Modification Technology

- Front sheet light transmittance $\geq 91\%$.
- Water vapor transmission rate $< 0.8\text{g}/\text{m}^2 \cdot \text{day}$.
- 25-year power warranty, ensuring long-term high performance.



Enhanced Resin-Fiber Interface Technology

- Static load resistance up to 5400 Pa.
- IEC 61215 hail test certified.
- TÜV wind tunnel tested, resistant to Category 17 typhoons.



Nano-hybrid modification and surface fire-resistance treatment

- Passed flame spread and burn block tests.
- Does not collapse or spread sparks in mild fire scenarios.

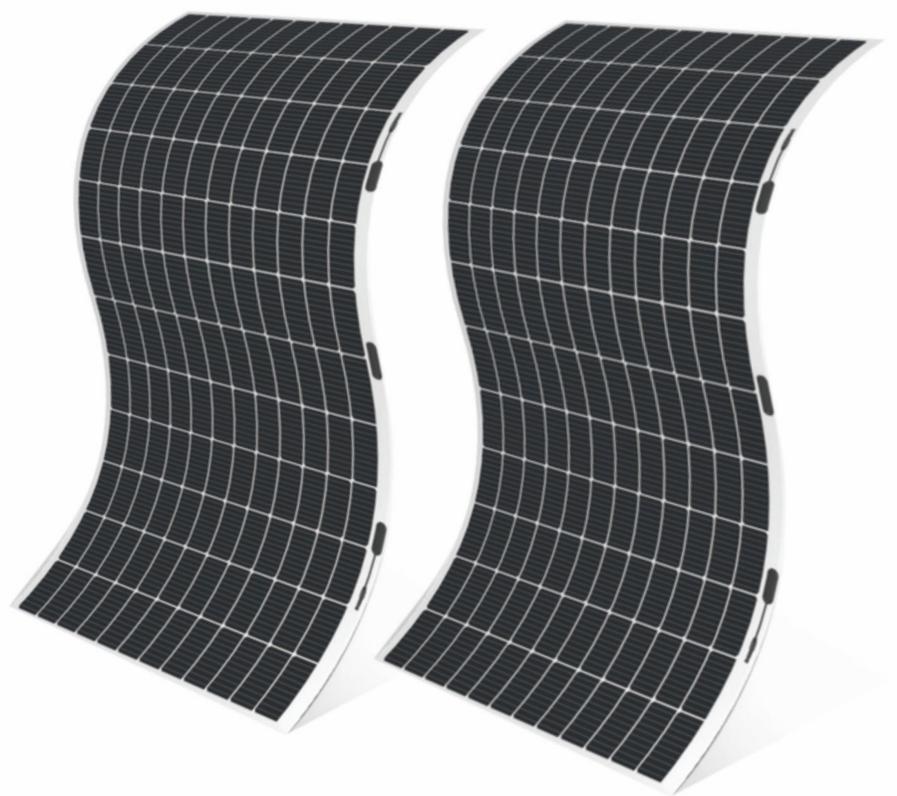


Nano Oxide Coating Self-Cleaning Technology

- Inhibits static electricity and dust accumulation, reducing hot spot effects.
- Quick rinse cleaning boosts power generation by 3-5%.

JY1-72H520PC

505~535w



Application Scenarios

Designed for C&I rooftops, especially for metal roofs and curved surfaces with structural load limitations.



JY1-72HxxxPC 505~535w

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Specification/Model	Unit	JY1-72H505PC	JY1-72H510PC	JY1-72H515PC	JY1-72H520PC	JY1-72H525PC	JY1-72H530PC	JY1-72H535PC
Maximum Power(Pm)	W	505	510	515	520	525	530	535
Power Tolerance	W	0~+5W						
Optimum Operating Voltage(Vm)	V	41.89	42.04	42.19	42.34	42.49	42.64	42.79
Optimum Operating Current(I _m)	A	12.07	12.15	12.22	12.30	12.37	12.44	12.52
Open Circuit Voltage(Voc)	V	49.60	49.80	50.00	50.20	50.40	50.60	50.80
Short Circuit Current(I _{sc})	A	13.02	13.10	13.17	13.24	13.31	13.38	13.44
Module Efficiency	%	19.0	19.2	19.3	19.5	19.7	19.9	20.1

STC: AM=1.5, irradiance1000W/m², Component temperature25°C

ELECTRICAL CHARACTERISTICS AT NOMINAL MODULE(NMOT)

Specification/Model	Unit	JY1-72H505PC	JY1-72H510PC	JY1-72H515PC	JY1-72H520PC	JY1-72H525PC	JY1-72H530PC	JY1-72H535PC
Maximum Power(Pm)	W	381	385	389	393	397	401	405
Optimum Operating Voltage(Vm)	V	36.98	37.13	37.27	37.43	37.56	37.71	37.86
Optimum Operating Current(I _m)	A	10.31	10.38	10.45	10.51	10.58	10.63	10.70
Open Circuit Voltage(Voc)	V	44.70	44.90	45.10	45.30	45.50	45.70	45.90
Short Circuit Current(I _{sc})	A	10.76	10.81	10.85	10.89	10.93	10.96	10.99
Certified	TÜV							

NMOT: irradiance 800W/m², ambient temperature20°C, wind speed1m/s

TEMPERATURE COEFFICIENT

Nominal Module Operating Temperature (NMOT)	41±2°C
Temperature Coefficient of Power	-0.36%/°C
Temperature Coefficient of Voltage	-0.26%/°C
Temperature Coefficient of Current	0.04%/°C

OPERATING CONDITIONS

Maximum System Voltage	DC1500V(IEC)
Maximum Series Fuse Rating	20A
Operating Temperature Range	-40°C ~ +85°C

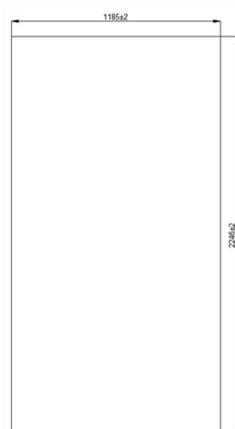
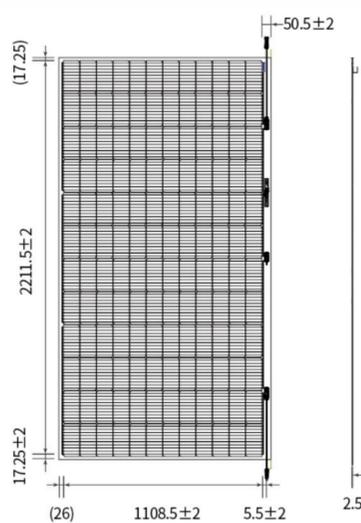
MECHANICAL CHARACTERISTICS

Dimensions (L×W×H)	2246mmx1185mmx2.5mm (without junction box)
Weight	7.9kg
Cell	P-Type
Encapsulant Material	EVA / POE
Backsheet Type	Backsheet(White)
Frame Material	Frameless
Connector Type	MC4-Compatible
Junction Box IP Rating	IP68
Cable Specification	4mm ² , 400mm Or customized by customers
Bending Radius	0.5m
Weight per Unit Area	2.97kg/m ²
Power per Unit Area	189.7~201.0W/m ²

PACKAGING & TRANSPORTATION

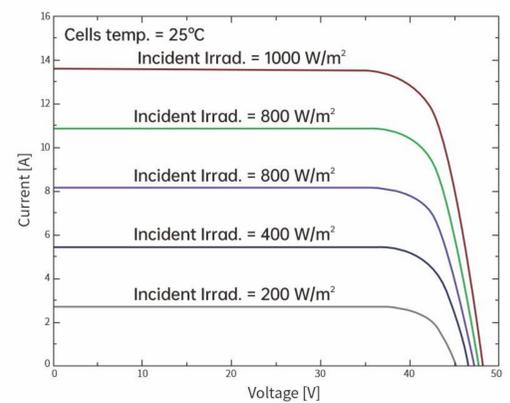
Transport Mode	Specification	Qty per Container	Qty per Pallet
Container	20'GP	350pcs	70pcs
Container	40'HQ	700 pcs	70pcs
Flatbed Truck	13m	1540pcs	70pcs
Flatbed Truck	17.5m	2100pcs	70pcs

MODULE SIZE

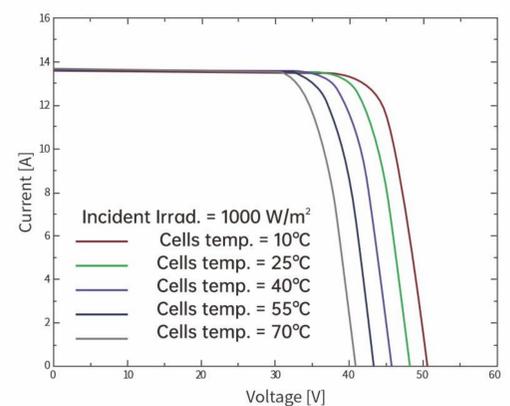


I-V CURVE

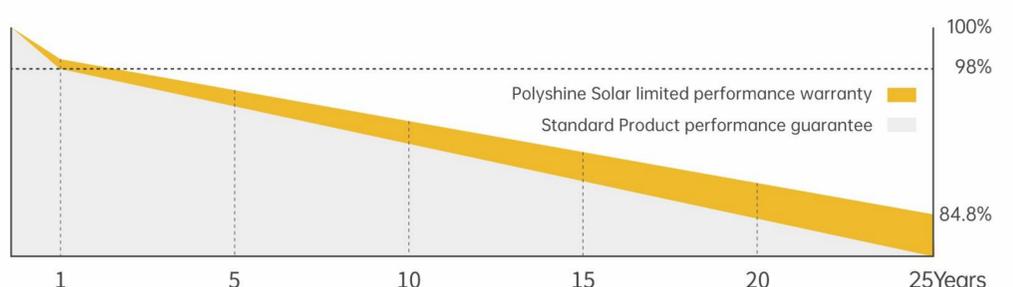
Current-voltage characteristics at varying irradiance



Current-voltage characteristics at varying cell temperature



PERFORMANCE WARRANTY



12Yrs
QUALITY

25Yrs
POWER

※ The power output shall not be less than 98% of the minimum output power specified in the product datasheet during the first year from the date the system is installed and operating normally;
 ※ Annual degradation ≤0.55% thereafter;
 ※ ≥84.8% by year 25, based on the minimum output specified in the datasheet.