POLYSHINE SOLAR

POLYSHINE® FLEXSOLAR SOLUTIONS

Lightweight and Flexible, Self-Cleaning and Dust-Resistant

JY Series Lightweight Flexible Modules



Product Features

- Ultra-lightweight and highly flexible, suitable for a wide range of applications with low load-bearing requirements.
- Proprietary encapsulation materials with excellent weather resistance.
- 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 ≥91%.
- Water vapor transmission rate <0.8g/m^2 · 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

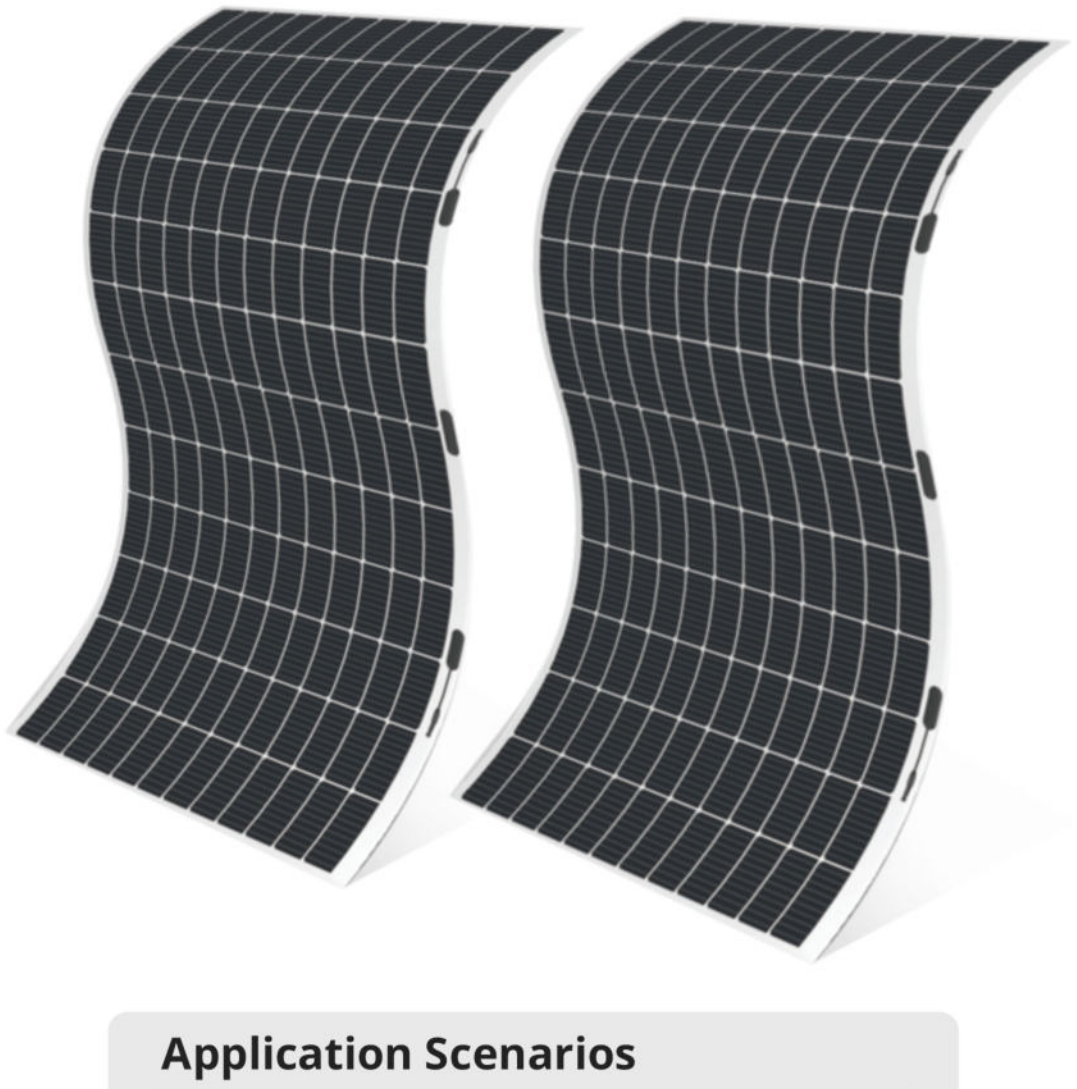
- Passed flame spread and burn block tests.
- Does not collapse or spread sparks in mild fire scenarios.

Nanoscale oxide coating (optional)

- 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.

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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
Max Power(Pmax)	W	505	510	515	520	525	530	535
Power Tolerance	W				0~+5W			
Voltage at Max Power(Vmp)	V	41.89	42.04	42.19	42.34	42.49	42.64	42.79
Current at Max Power(Imp)	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(Isc)	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℃

ELECTRICAL CHARACTERISTICS AT NOMINAL MODULE(NMOT)

Specification/Model	UnIt	JY1-72H505PC	JY1-72H510PC	JY1-72H515PC	JY1-72H520PC	JY1-72H525PC	JY1-72H530PC	JY1-72H535PC
Max Power(Pmax)	W	381	385	389	393	397	401	405
Voltage at Max Power(Vmp)	V	36.98	37.13	37.27	37.43	37.56	37.71	37.86
Current at Max Power(Imp)	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(Isc)	A	10.76	10.81	10.85	10.89	10.93	10.96	10.99
Certified	TÜV							

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

TEMPERATURE COEFFICIENT

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

OPERATING CONDITIONS

Max System Voltage	DC1500V(IEC)
Max Series Fuse Rating	20A
Operating Temperature Range	-40℃ ~ +85℃

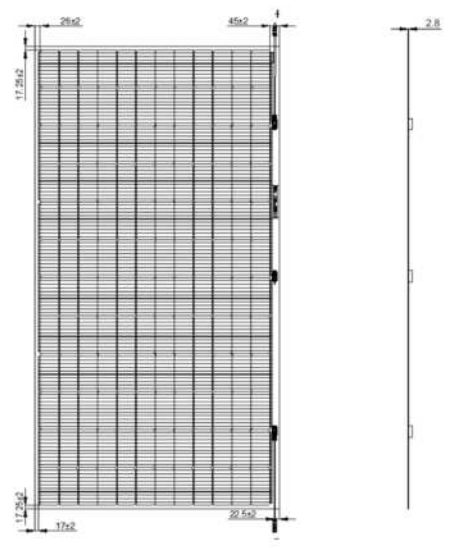
MECHANICAL CHARACTERISTICS

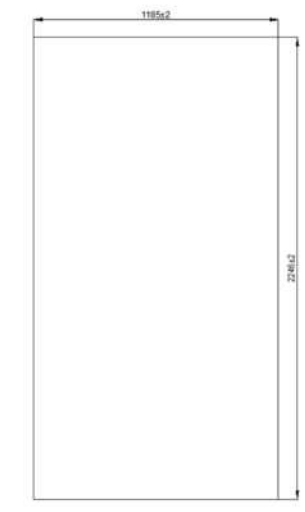
Dimensions (L×W×H)	2246mmx1185mmx2.8mm (without junction box)
Weight	9.5kg
Cell	P-Type
Encapsulant Material	POE
Backsheet Type	Backsheet(White)
Frame Material	Frameless
Connector Type	MC4-Evo 2
Junction Box IP Rating	IP68
Cable Specification	4mm², 460mm Or customized by customers
Bending Radius	0.5m
Weight per Unit Area	3.57kg/m²
Power per Unit Area	189.7~201.0W/m²

PACKAGING & TRANSPORTATION

Transport Mode	Specification	Qty per Container	Qty per Pallet
Container	20'GP	350pcs	70pcs
Container	40'HQ	1026pcs	84/30pcs

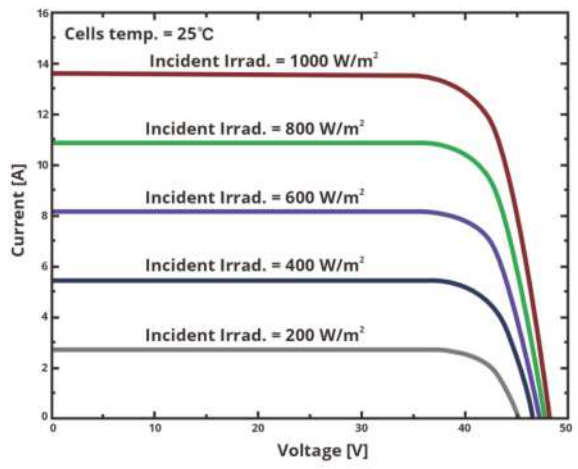
MODULE SIZE



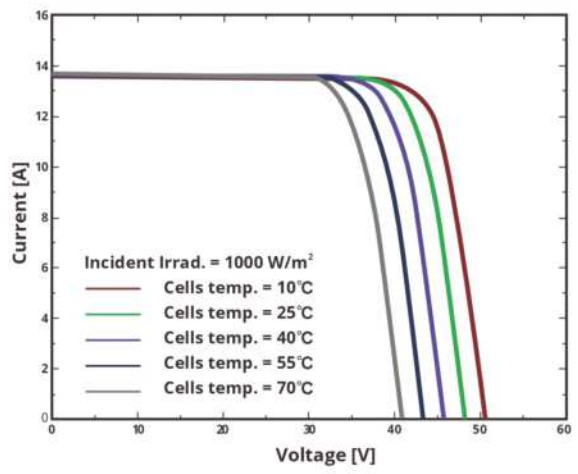


I-V CURVE

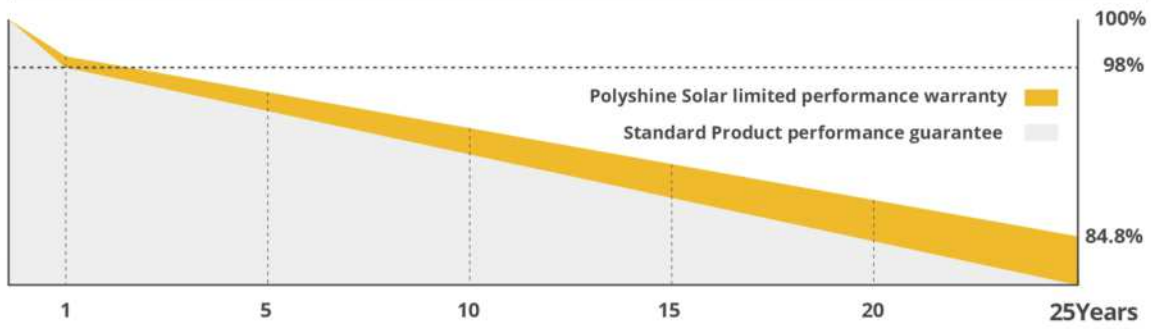
Current-voltage characteristics at varying irradiance



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.