

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.

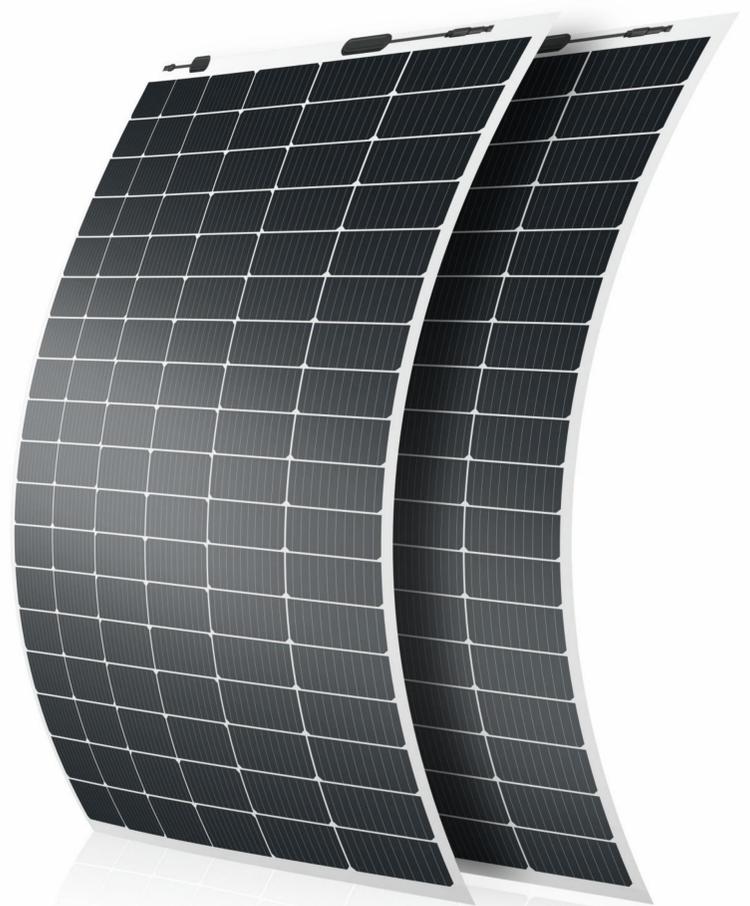


Nano Oxide Coating Self-Cleaning Technology

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

JY1-54HxxxPC

380~410w



Application Scenarios

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



JY1-54HxxxPC 380~410w

✓ ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Specification/Model	Unit	JY1-54H380PC	JY1-54H385PC	JY1-54H390PC	JY1-54H395PC	JY1-54H400PC	JY1-54H405PC	JY1-54H410PC
Maximum Power(Pm)	W	380	385	390	395	400	405	410
Power Tolerance	W	0 ~ +5						
Optimum Operating Voltage(Vm)	V	30.23	30.38	30.54	30.69	30.85	31.02	31.18
Optimum Operating Current(I _m)	A	12.59	12.69	12.79	12.89	12.99	13.08	13.17
Open Circuit Voltage(Voc)	V	36.0	36.2	36.4	36.6	36.8	37.0	37.2
Short Circuit Current(I _{sc})	A	13.42	13.49	13.56	13.63	13.70	13.76	13.82
Module Efficiency(η _m)	%	19.2	19.5	19.7	20.0	20.2	20.5	20.7

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

✓ ELECTRICAL CHARACTERISTICS AT NMOT CONDITIONS

Specification/Model	Unit	JY1-54H380PC	JY1-54H385PC	JY1-54H390PC	JY1-54H395PC	JY1-54H400PC	JY1-54H405PC	JY1-54H410PC
Maximum Power(Pm)	W	286	290	294	298	302	306	310
Optimum Operating Voltage(Vm)	V	28.09	28.24	28.42	28.55	28.70	28.85	29.00
Optimum Operating Current(I _m)	A	10.21	10.3	10.39	10.47	10.55	10.62	10.71
Open Circuit Voltage(Voc)	V	33.8	34.0	34.2	34.4	34.6	34.8	35.0
Short Circuit Current(I _{sc})	A	10.70	10.77	10.85	10.90	10.96	11.01	11.08
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(P _{max})	-0.36%/°C
Temperature Coefficient of Voltage(Voc)	-0.26%/°C
Temperature Coefficient of Current(I _{sc})	0.04%/°C

✓ OPERATING CONDITIONS

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

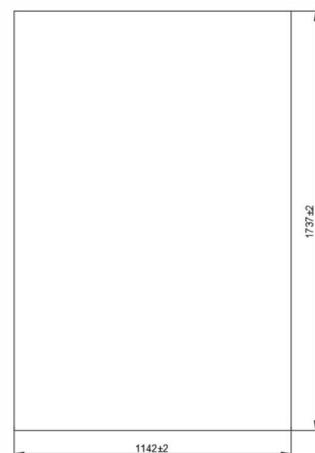
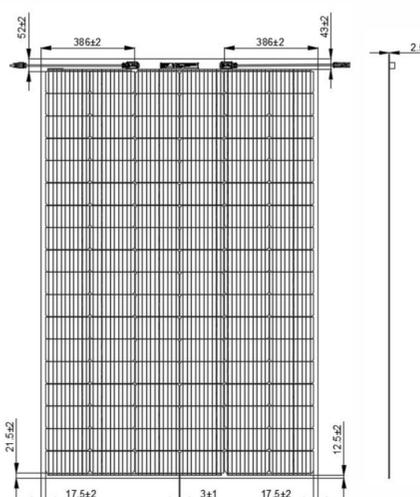
✓ MECHANICAL CHARACTERISTICS

Dimensions (L×W×H)	1737mmx1142mmx2.5mm (without junction box)
Weight	5.8kg
Cell	P-Type
Encapsulant Material	EVA
Backsheet Type	Backsheet (White)
Base Frame	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	2.92kg/m ²
Power per Unit Area	191.6~206.7W/m ²

✓ PACKAGING & TRANSPORTATION

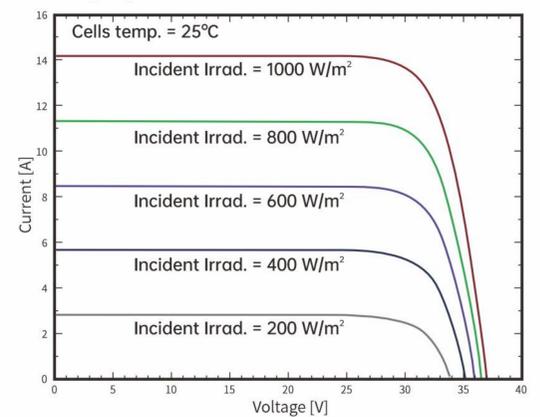
Transport Mode	Specification	Qty per Container (40HQ)	Qty per Pallet
Container	20'GP	420pcs	70pcs
Container	40'HQ	1820pcs	70pcs
Flatbed Truck	13m	1960pcs	70pcs
Flatbed Truck	17.5m	3360pcs	70pcs

✓ MODULE SIZE

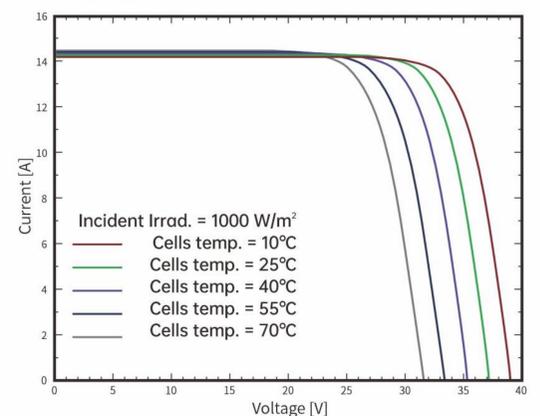


✓ I-V CURVE

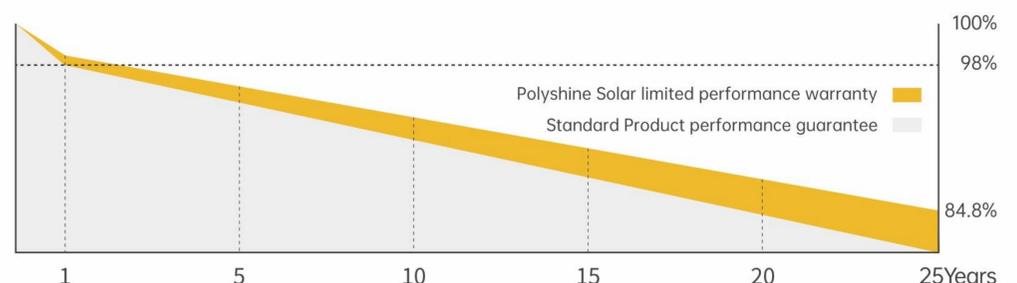
Current-voltage characteristics at varying irradiance



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.