

Plug-and-Play Solar Gains in Minutes

JY Series Balcony Solar Module

JY1-54HxxxPC
380~410W

20 Years
of Polymer Materials Expertise
Proven Outdoor Performance

20,000⁺
Hours
of Aging Tests

Product Features

-  Ultra-lightweight design, single-person installation in as little as 2 minutes.¹
-  Payback in as little as 4-5 years.²
-  Zero explosion, zero shattering, zero safety risk.³

1.2 minutes: Estimated installation time by one person; actual time may vary depending on user experience.
2.4-5 years: Based on China market conditions; varies with sunlight exposure and electricity pricing. Energy storage cost not included.
3.Zero explosion, zero shattering, zero safety risk.

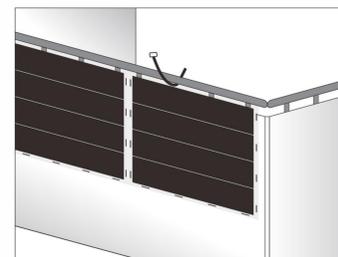
Technical Support & Advanced Material Technologies

-  **Polymer Chain Group Modification Technology**
 - Front sheet light transmittance $\geq 91\%$.
 - Water vapor transmission rate: $< 0.8\text{g}/\text{m}^2 \cdot \text{day}$
-  **Enhanced Resin-Fiber Interface Technology**
 - IEC61215 hail test certified.
-  **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.

Installation Guide

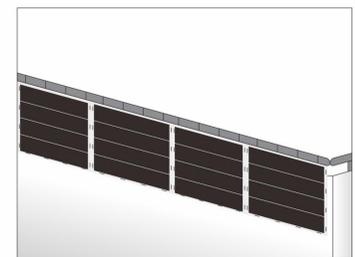
STEP1

Secure the module using hook-and-loop straps on balcony railings or brackets.



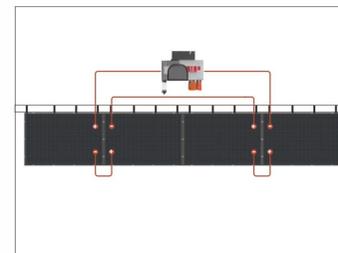
STEP2

Repeat Step 1 to install remaining modules.



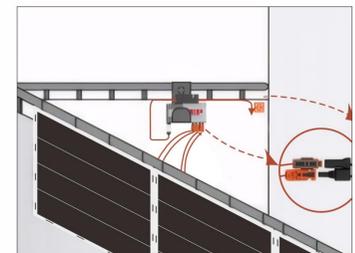
STEP3

Connect modules to the inverter.



STEP4

Plug in the extension cable and power up the system.



Application Scenarios

Versatile Mounting: Seamlessly adapts to all balcony & garden railing systems — zero structural modifications needed.



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(Im)	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(Isc)	A	13.42	13.49	13.56	13.63	13.70	13.76	13.82
Module Efficiency(ηm)	%	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(Im)	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(Isc)	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(Pmax)	-0.36%/°C
Temperature Coefficient of Voltage(Voc)	-0.28%/°C
Temperature Coefficient of Current(Isc)	0.02%/°C

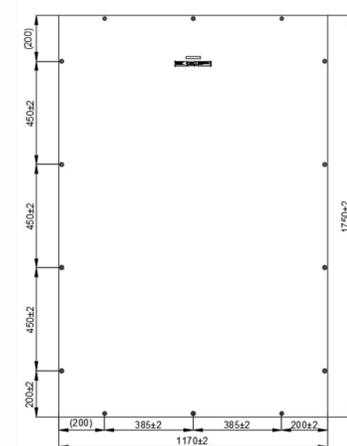
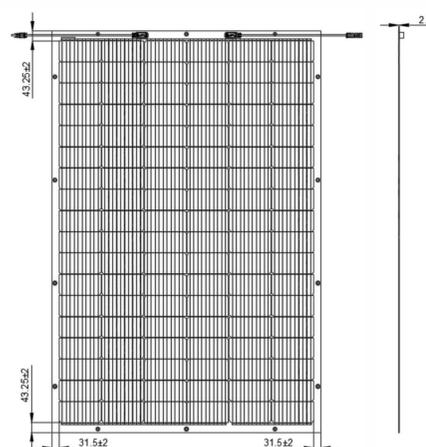
✓ OPERATING CONDITIONS

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

✓ MECHANICAL CHARACTERISTICS

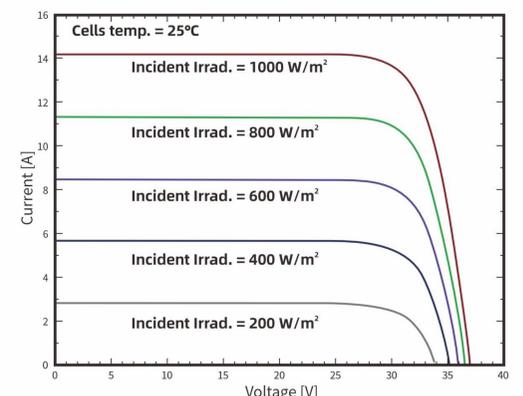
Dimensions (L×W×H)	1750mmx1170mmx2.5mm (without junction box)
Weight	6.3kg
Cell	P-Type
Encapsulant Material	EVA
Backsheet Type	Backsheet(Black)
Frame Material	Frameless
Connector Type	MC4-Evo 2 Stäubli
Junction Box IP Rating	IP68
Cable Specification	4mm ² , 460mm Or customized by customers
Bending Radius	0.5m
Weight per Unit Area	3.07kg/m ²
Power per Unit Area	185.6~202.2W/m ²

✓ MODULE SIZE

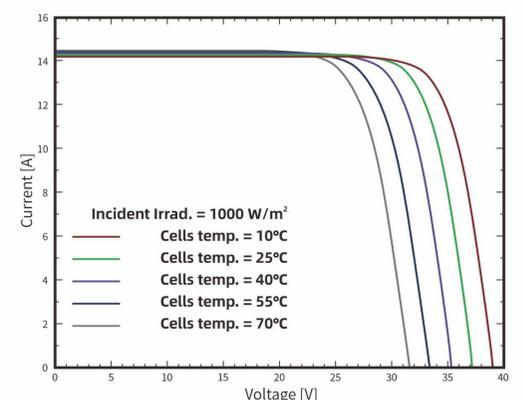


✓ I-V CURVE

Current-voltage characteristics at varying irradiance



Current-voltage characteristics at varying cell temperature



✓ PACKAGING & TRANSPORTATION

Transport Mode	Specification	Qty per Container	Qty per Pallet
Container	20'GP	522pcs	30/60/84pcs
Container	40'HQ	1044pcs	30/60/84pcs
Flatbed Truck	13m	1960pcs	70pcs
Flatbed Truck	17.5m	3360pcs	70pcs