

Plug-and-Play Solar Gains in Minutes

JY Series Balcony Solar Module

JY1-27HxxxPC
190~200W

20 Years
of Polymer Materials
Expertise
Proven Outdoor
Performance

20000⁺
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.



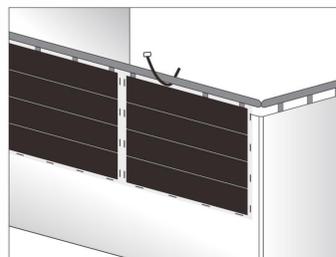
Nano-hybrid modification and surface fire-resistance treatment

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

Installation Guide

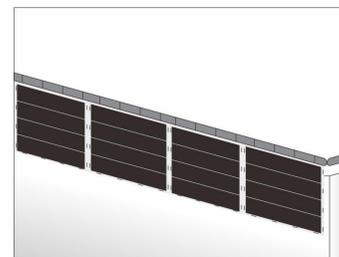
STEP 1

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



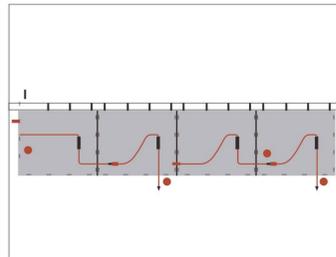
STEP 2

Repeat Step 1 to install remaining modules.



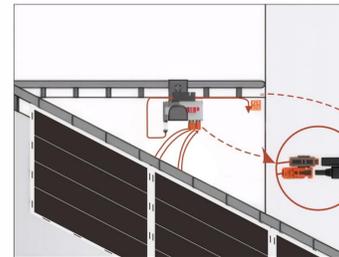
STEP 3

Connect modules to the inverter.



STEP 4

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.



JY1-27HxxxPC

190~200w

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS(STC)

Specification/Model	Unit	JY1-27H190PC	JY1-27H195PC	JY1-27H200PC
Maximum Power(Pm)	W	190	195	200
Power Tolerance	W		0~+5W	
Optimum Operating Voltage(Vm)	V	15.10	15.30	15.50
Optimum Operating Current(I _m)	A	12.63	12.80	12.95
Open Circuit Voltage(V _{oc})	V	17.70	18.00	18.30
Short Circuit Current(I _{sc})	A	13.46	13.61	13.75
Module Efficiency(η _m)	%	17.7	18.2	18.6

STC:AM=1.5,Irradiance1000W/m²,Component temperature25°C

ELECTRICAL CHARACTERISTICS AT NMOT CONDITIONS

Specification/Model	Unit	JY1-27H190PC	JY1-27H195PC	JY1-27H200PC
Maximum Power(P _m)	W	151	155	159
Optimum Operating Voltage(V _m)	V	14.80	14.93	15.07
Optimum Operating Current(I _m)	A	10.26	10.42	10.58
Open Circuit Voltage(V _{oc})	V	17.89	18.07	18.25
Short Circuit Current(I _{sc})	A	10.81	10.89	10.97
Certified	TÜV			

NMOT: Irradiancia 800W/m², Temperatura ambiente 20°C, velocidad del viento 1m/s

TEMPERATURE COEFFICIENT

Nominal Module Operating Temperature(NMOT)	41±2°C
Temperature Coefficient of Power(P _{max})	-0.36%/°C
Temperature Coefficient of Voltage(V _{oc})	-0.26%/°C
Temperature Coefficient of Current(I _{sc})	0.04%/°C

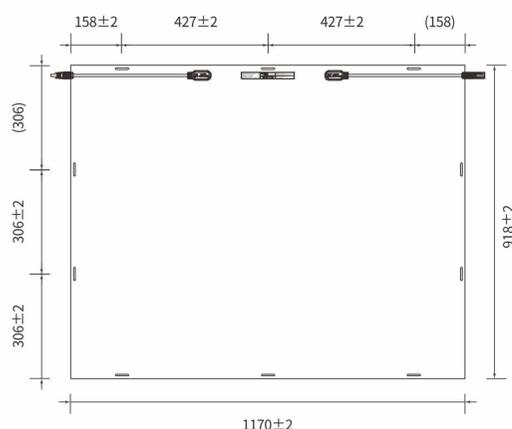
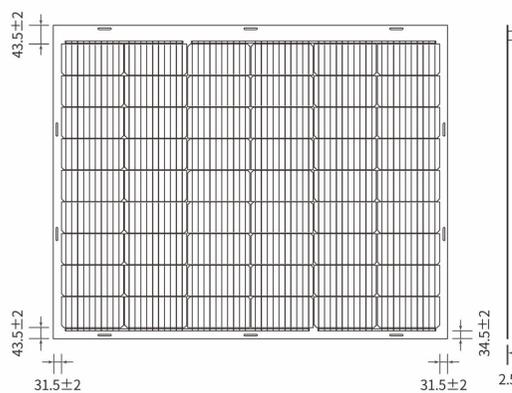
OPERATING CONDITIONS

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

MECHANICAL CHARACTERISTICS

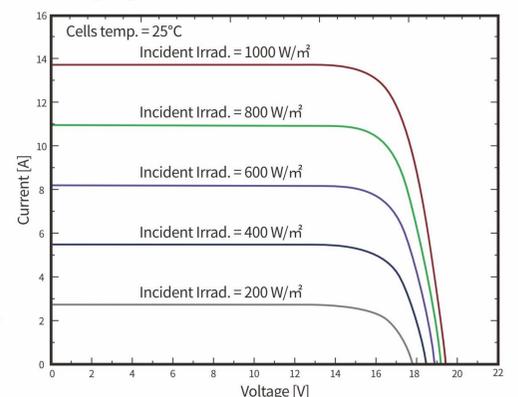
Dimensions (L×W×H)	1170mm×918mm×2.5mm (without junction box)
Weight	3.3kg
Cell	P-Type
Encapsulant Material	EVA/POE
Backsheet Type	Backsheet(Black)
Frame Material	Frameless
Connector Type	MC4-Compatible
Junction Box IP Rating	IP68
Cable Specification	4mm, 460mm or customized by customer
Weight per Unit Area	3.07kg/m ²
Power Per Unit Area	186.2kg~195.5W/m ²

MODULE SIZE

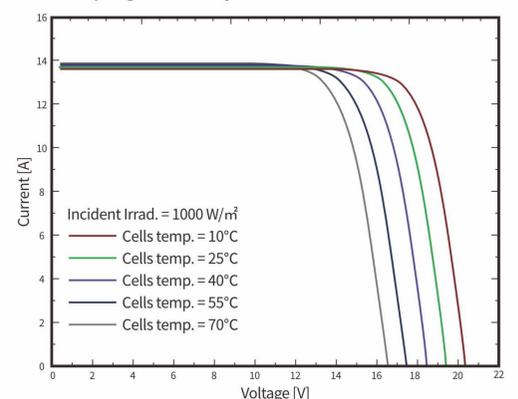


I-V CURVE

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	1120pcs	70pcs
Container	40'HQ	2520pcs	70pcs
Flatbed Truck	13m	/	/