

Economic Analysis

From Traditional to Jingwa Tile: The Evolution of Roofing Tiles.



Traditional Roofing Tiles

- Low cost, single function
- Easy installation, mature technology
- Clay-fired, high energy consumptionin production
- One time investment,no payback



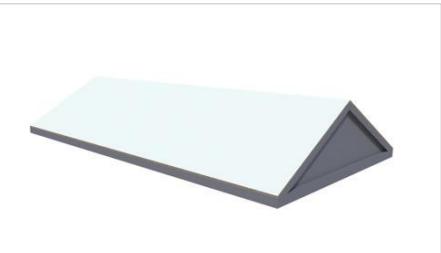
Jingwa Series

- PV-integrated, building integrated power generation
- Aesthetic integration, uniform roof appearance
- Long term returns
- Convenient installation, wide adaptability
- Green building compli
ance, carbon reduction.

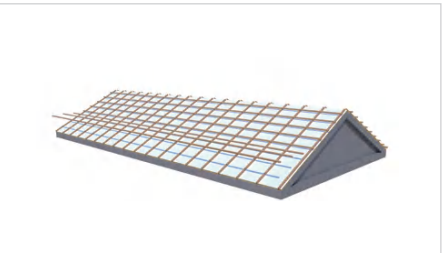
Why choose Jingwa: A Cost-Benefit Example (3×10m single-slop)

Location	Installation tilt angle	Orientation	PV tileinstalled capacity (kW)	Peak sunshine hours (h)	Annual power generation (kWh)
Beijing	30°	South	3.24KW	1587	5141.88
Hefei				1315	4260.6
Chengdu				999	3236.76
Shenzhen				1367	4429.08

Installation Steps



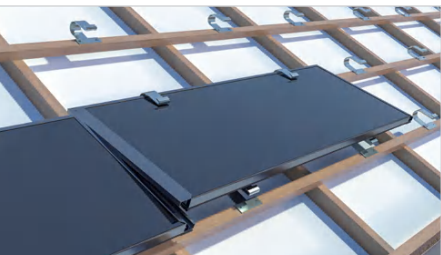
01 Roof acceptance inspection



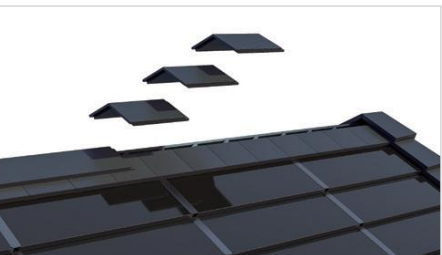
02 Installation of counter-battens and tile battens



03 Hook installation



04 Starting tile installation



05 Installation of field tiles, edge tiles, and ridge tiles



06 Electrical system installation

Application Scenarios



• High-endvilla roofs



• Rural self-built houseroofs



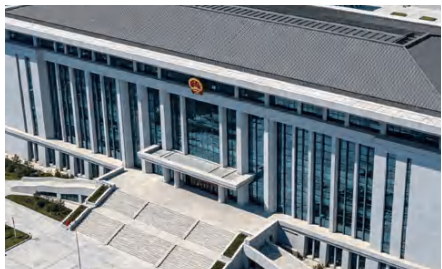
• Commercial residential building roofs



• Commercial building roofs



• Public building roofs



• Government office building roofs

Hefei BOE Solar Technology Co., Ltd.



BOE



BIPV Building Integrated Photovoltaics

Jingwa Series

Change Lives With Clean Energy



JINGWA SERIES

PV Roof Tile

Jingwa is BOE’s flat photovoltaic tile system based on perovskite technology. It deeply integrates roofing materials with efficient power generation, providing a standardized solution for green roofs.

CLASS A

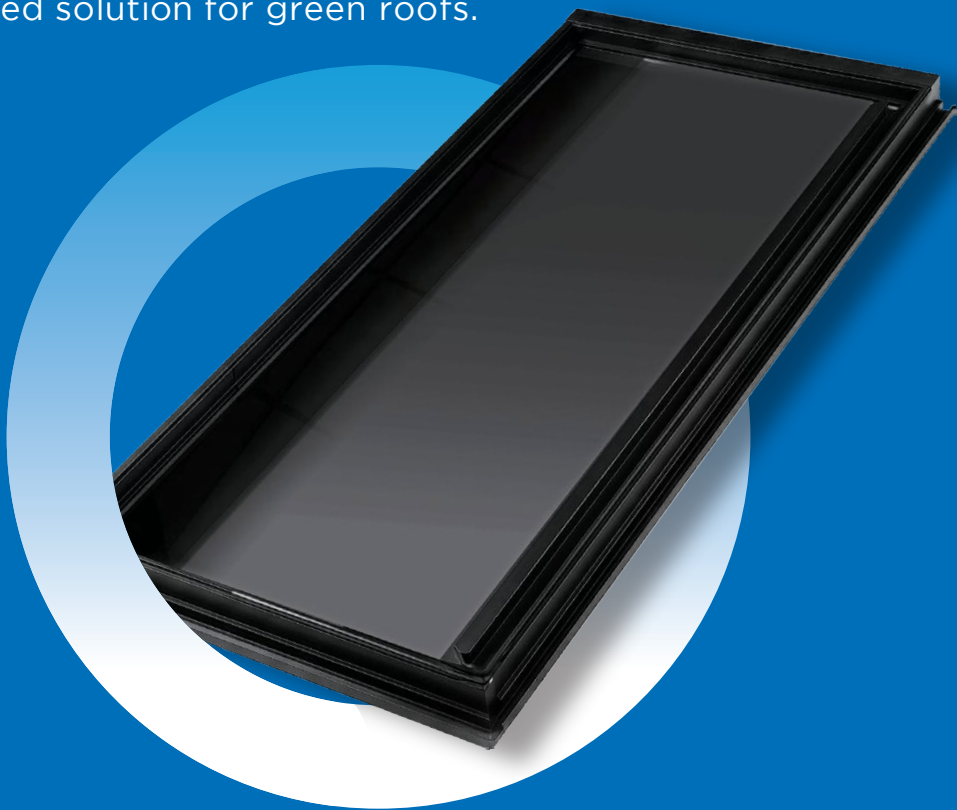
Fire rating

15 Level

Wind up lift resistance

<21KG

Weight per m²



Wide applicability, reasonable dimensions



Sturdy structure, safe and reliable



Strong adaptability, withstands wind and rain



Innovative thin-film, aesthetic design

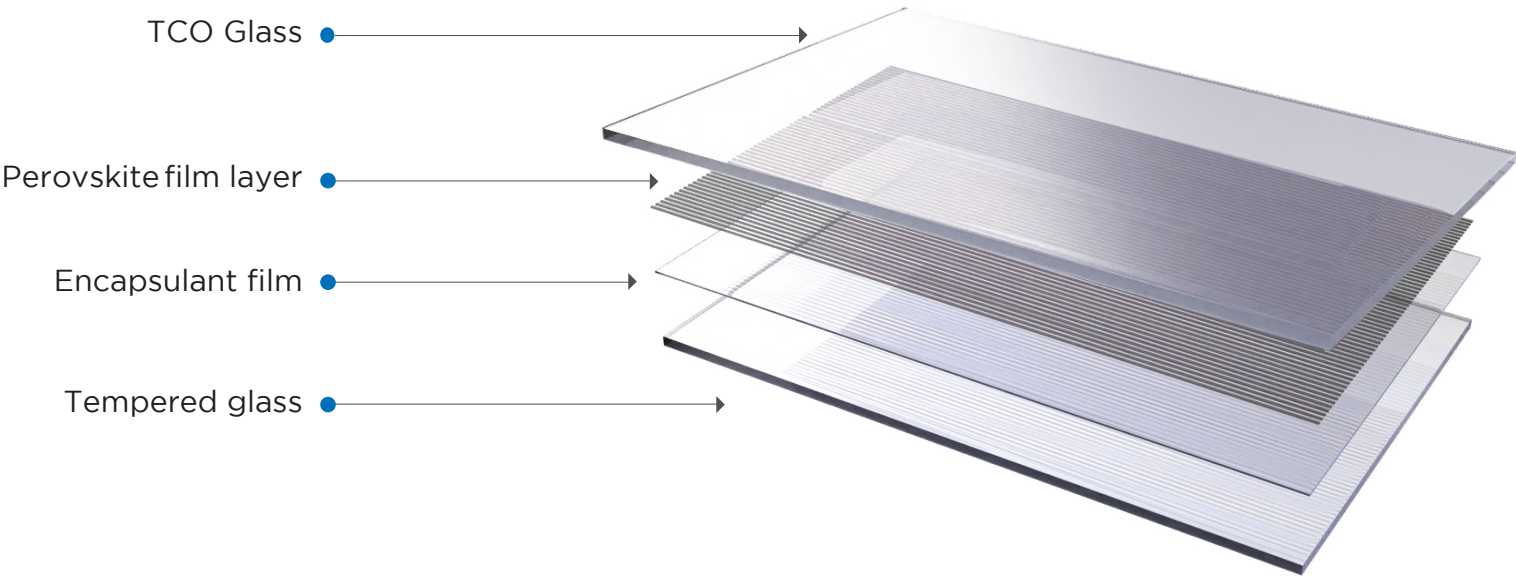


Easy installation, stable and durable



Excellent performance, low-light gain

Module Structure



Product Structure



Corner bracket: 1 2 3 4 Top frame: 5 Bottom frame: 6 Left side frame: 7 Right side frame: 8

Product Parameters



1110x400x26 ±2mm

Cell Type	Perovskite
Weight	830.5kg
Front glass	3.2mm TCO glass
Back glass	3.2mm tempered glass
Frame	Anodized alminum alloy
Junction box	1 diode
Cable	2.5mm², +200mm/-1100(Customizable)
Packing	28 pcs/pallet 2464pcs/13.5m flatbed truck, 3136pcs/17.5m flatbed truck

Electrical Characteristics (STC)	Pmax[W]	45
	Vmp[V]	34.8
	Imp[A]	1.4-1.57
	Voc[V]	46.4
	Isc[A]	2.06-2.31
	Output power tolerance	35%
	Pmax temperature coefficient	-0.05%/℃
	Voc temperature coefficient	-0.017%/℃
Operating Conditions	Isc temperature coefficient	-0.26%/℃
	Operating temperature	-40℃--+70℃
	Max system voltage	1500V DC
	Fuse rating	10A
	Protection rating	IP68
Load Capacity	Module fire rating	Class A
	Front max. static load	5400Pa
	Back max. static load	2400Pa
	Hail Test	25mm diameter, 23m/s impact speed