

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 consumption in production



One time investment, no payback



Jingwa Series

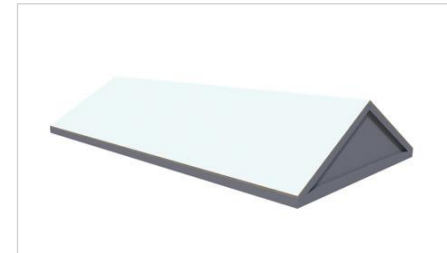


- PV-integrated, building integrated power generation ✓
- Aesthetic integration, uniform roof appearance ✓
- Long term returns ✓
- Convenient installation, wide adaptability ✓
- Green building compliance, carbon reduction. ✓

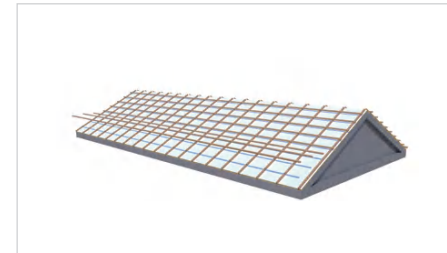
Why choose Jingwa: A Cost-Benefit Example (3×10m single-slop)

Location	Installation tilt angle	Orientation	PV tile installed 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



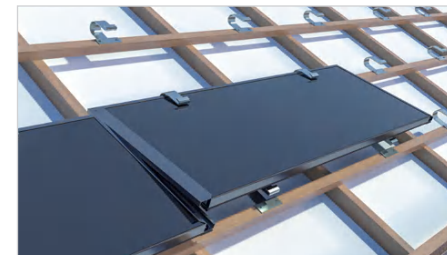
01 Roof acceptance inspection



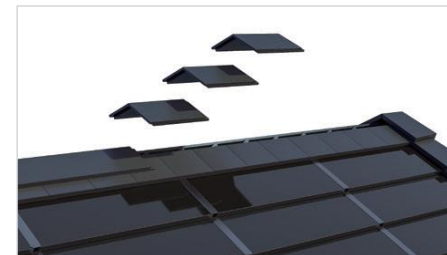
02 Installation of counter-battens and tile battens



03 Hook installation



04 Starting tile installation



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



06 Electrical system installation

Application Scenarios



• High-end villa roofs



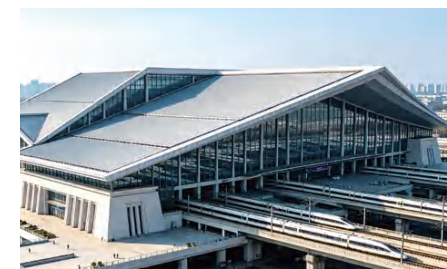
• Rural self-built house roofs



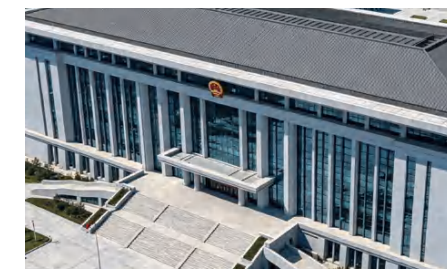
• Commercial residential building roofs



• Commercial building roofs



• Public building roofs



• Government office building roofs

Hefei BOE Solar Technology Co., Ltd.



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

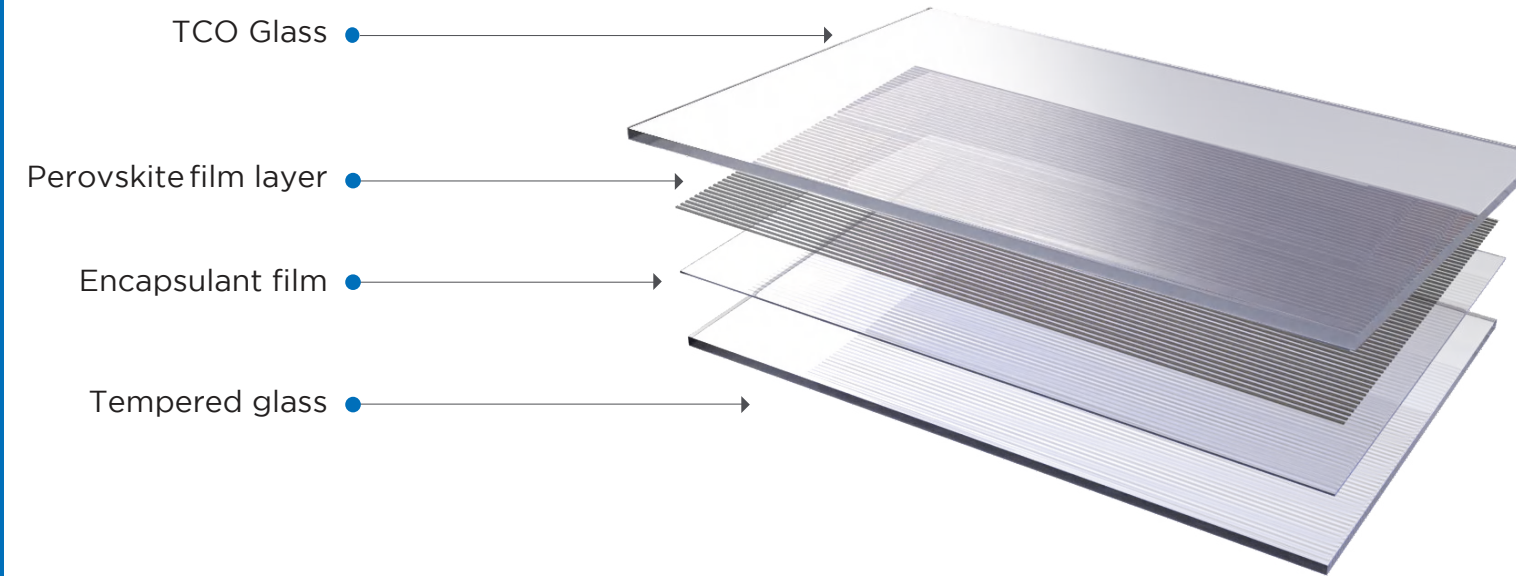
Wind up lift resistance

<21KG

Weight per m²



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	2.5mm ² , +200mm/-1100(Customizable)
Packging	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%/°C
	Voc temperature coefficient	-0.017%/°C
Operating Conditions	Isc temperature coefficient	-0.26%/°C
	Operating temperature	-40°C~+70°C
	Max system voltage	1500V DC
	Fuse rating	10A
Load Capacity	Protection rating	IP68
	Module fire rating	Class A
	Front max. static load	5400Pa
	Back max. static load	2400Pa
Hail Test	25mm diameter, 23m/s impact speed	

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