



SUNLIT
INTEGRATED SOLAR SOLUTIONS

Extreme Durability Meets
Modern Architectural Aesthetics

Invisible Solar, Visible Savings

Storm Guard Series - Typhoon-Grade Solar Roof Tiles



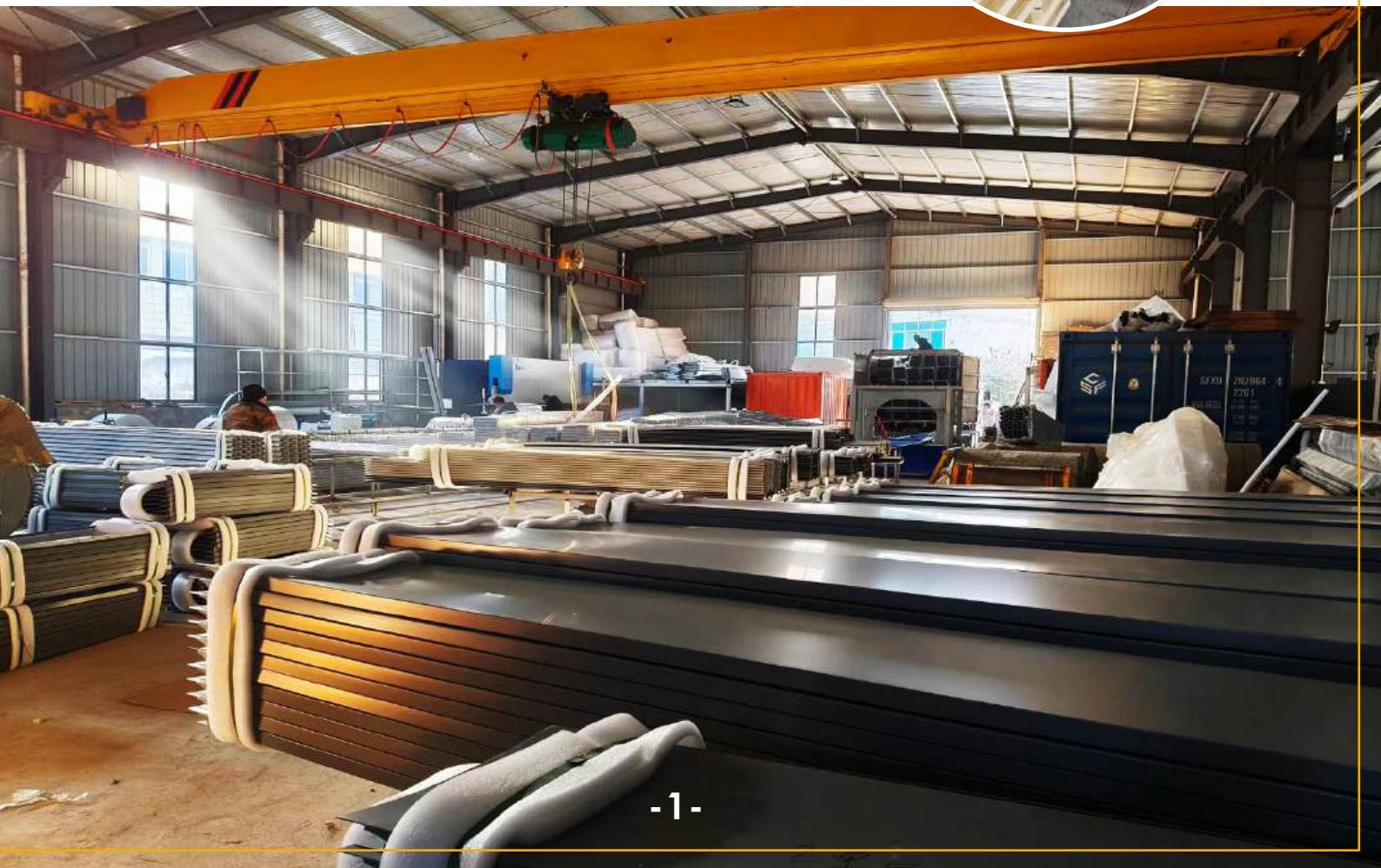
25-Year Warranty ■ Energy Independence ■ Global Shipping

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01 Your Direct BIPV Invisible Energy Manufacturer

Sunlit Solar Roof is a professional Building-Integrated Photovoltaics (BIPV) manufacturer headquartered in China. Backed by a team of roofing and solar industry veterans, we deeply understand the rigorous demands of the global market. We pride ourselves on seamless communication, professional engineering support, and an agile manufacturing process, enabling us to rapidly respond to your specific project needs.

As a direct-to-market factory, we eliminate middlemen. This allows builders, roofing contractors, and developers to access solar roofing that rivals or exceeds top international brands at highly competitive factory-direct pricing.

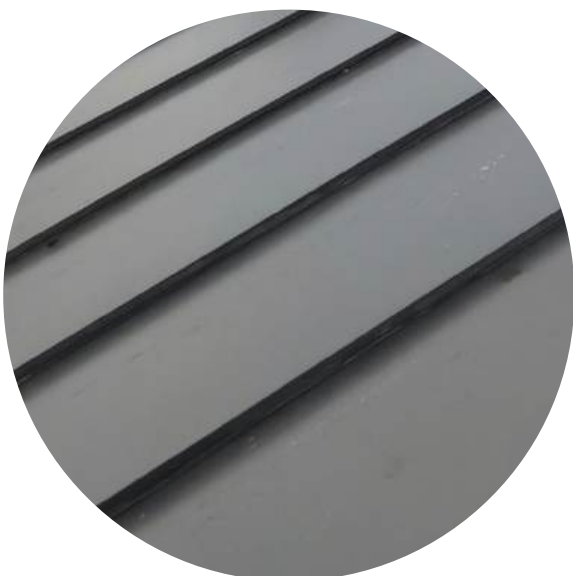


02 The Ultimate Aesthetic Choice to Boost Property Value

Designed specifically for coastal areas, extreme weather zones, and demanding architectural applications. The Storm Guard Series redefines roof resilience.

Featuring a sleek, deep black modern appearance and robust construction, it seamlessly integrates with metal accessory tiles to form an impenetrable barrier. Powered by advanced TOPCon monocrystalline silicon technology, it delivers exceptional power generation (135W per tile), ensuring your property remains powered and protected in the harshest environments.

Details

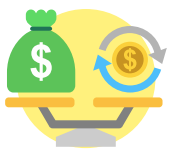


03 Core Performance and Commercial Advantages



Extreme Weather Defense:

Category 12 typhoon tested and engineered to withstand 35mm hail impacts with a mechanical load capacity of 5400Pa.



Cost-Offsetting Upgrade:

Completely replaces traditional roofing. Your actual investment is only the incremental cost of the solar upgrade.



Lightweight & Structural Savings:

Significantly lowers roof load-bearing requirements, saving framing reinforcement costs.



High Power Output:

Advanced TOPCon technology delivers 135W per large-format tile (175 W/m² power density).



Modern Aesthetics:

Deep black finish that perfectly matches with metal accessory tiles for a sleek, contemporary roofline.



Simplified Installation:

Direct batten mounting over concrete, wood, or steel bases, greatly reducing labor time.



Green Premium:

Outstanding emission reduction, helping projects earn LEED/BREEAM green building certifications.



Worry-Free Warranty:

25-year global product warranty and IP68 dust/waterproof rating.

04 Technical Specifications



1240 mm × 390 mm



1240 mm × 390 mm

Parameter	Details
Appearance Color	Black
Encapsulated Type	Single glass adhesive
Battery Type	Monocrystalline silicon TOPCON
Tile Dimensions	1950 mm × 420 mm × 6.2 mm
Tile Weight	9.3 ± 0.2 kg
Typical Power (Pmax)	135 W
Power Density (per m ²)	5400 Pa
Mechanical Load	Category 15 typhoon tested
Wind Resistance Grade	Resist grade 12 typhoons
Hail / Waterproof Grade	35mm / Ip68
Installation Method	Overlap up, down, left, right structure waterproof
Combustion Performance	A Grade

05 The Complete Storm Guard System Anatomy

A highly efficient, streamlined roofing system designed for ultimate structural integrity.

Part 1

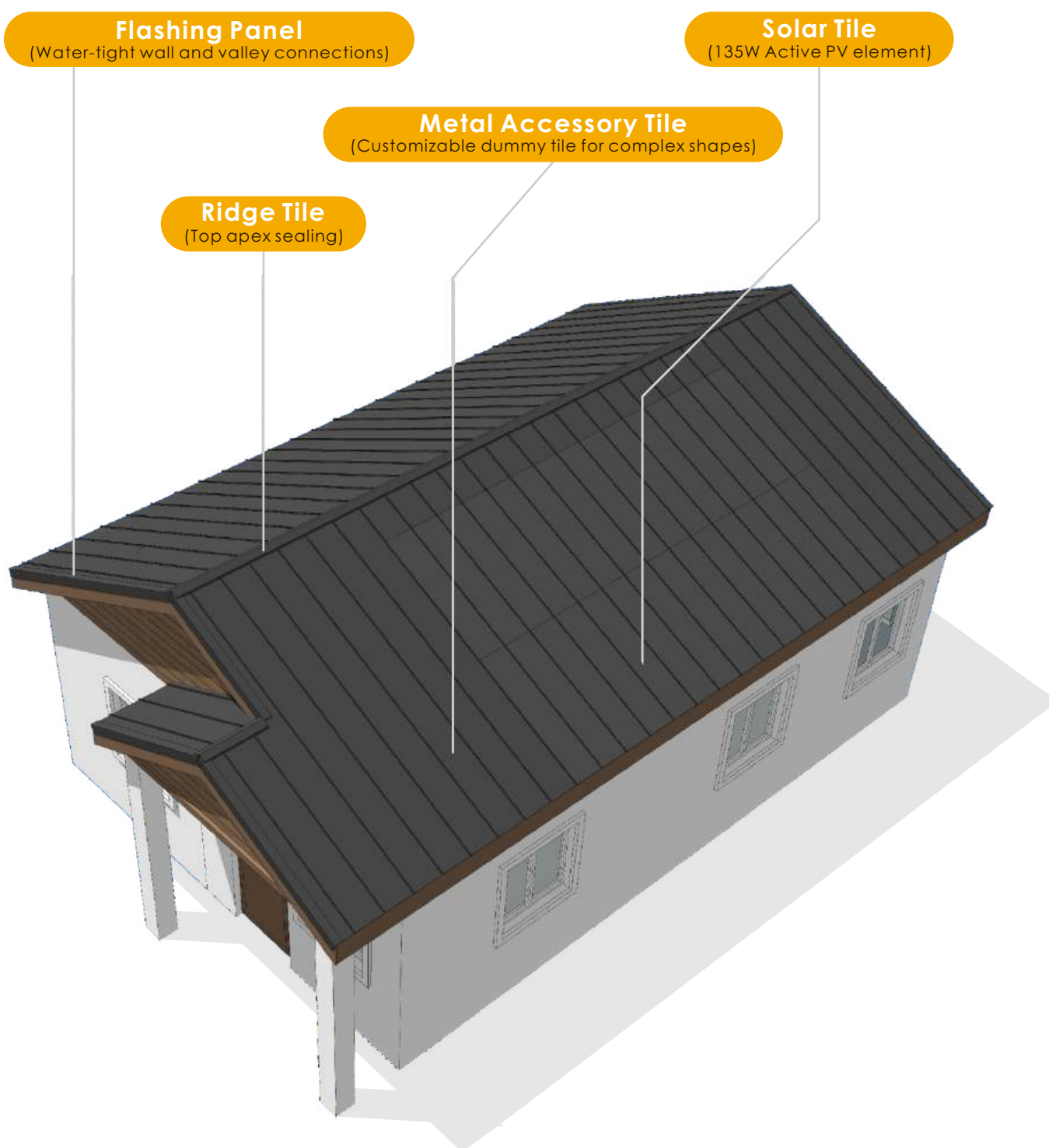
Layout for 4-tier roof section view

- 4 Metal Tiles**
Seamless aesthetic matching and edge protection
- 3 Solar Roof Tiles (P135)**
Active power generation
- 2 Batten**
Tile support framework
- 1 Concrete / Wood / Steel Base**
Seamless aesthetic matching and edge protection



Part 2:

Layout for full roof components leader drawing



06 Installation Made Simple: Save 30%-50% on Labor Costs

Lack a specialized PV team? That is no longer a barrier. The Storm Guard system utilizes a straightforward overlap structure. Your regular roofers can easily mount the battens and securely overlap the tiles—just slide, lock, and connect the built-in wiring, leaving the final grid connection to a certified electrician.

Step1 Prepare base & install battens



Step2 Four-way overlap installation



Step3 Ip68 rated wiring connection

Step4 Inverter & grid connection

07 Reference Installations and Budget Guide

Typical configurations designed to fully cover daily electricity usage, paired with energy storage for true energy independence.

Case1 Medium Premium Villa

Total Roof Area: 240 m²

Recommended Solar Capacity:
12 kW (Active PV + Metal Accessory Tiles)

Est. Annual Generation:
14,000 - 17,000 kWh (Based on average US/EU daylight)

Recommended Storage: 20 kWh

Ref. Complete System Cost:
Ref. Material Cost (Roofing Only): USD 17,000 (Excludes Inverter & Storage)



Case2 Large Luxury Estate

Total Roof Area: 400 m²

Recommended Solar Capacity:
25 kW (Active PV + Metal Accessory Tiles)

Est. Annual Generation:
28,000 - 35,000 kWh (Based on average US/EU daylight)

Recommended Storage: 30 kWh

Ref. Complete System Cost:
Ref. Material Cost (Roofing Only): USD 30,000 (Excludes Inverter & Storage)



Disclaimer

Pricing Terms:

All reference prices are based on EXW (Ex Works) terms. Shipping, customs duties, and local logistics are quoted separately based on your location.

Inverter & Storage Policy:

To ensure optimal system compatibility and responsive after-sales warranty support, our reference quotes do not include inverters and battery storage. We highly recommend sourcing these electrical components from qualified local suppliers in your market. Our technical team will provide full system specifications to perfectly assist your local installer.

Disclaimer:

Final power generation and exact quotes depend on specific roof pitch, shading, local climate, and final layout.

08 How to Become Our Global Partner

We sincerely invite global roofing contractors, builders, and real estate developers to partner with us. Enjoy high profit margins, flexible cooperation models, and direct factory support (No MOQ).



Q₁: Does installation require special tools or PV teams?

A₁: No. Regular roofers can install them using standard roofing tools.



Q₂: Is it truly indistinguishable from solar panels?

A₂: Yes. It looks identical to natural slate from any street-level angle.



Q₃: Can it be used for roof renovation projects?

A₃: Absolutely. Directly replaces existing tiles.



Q₄: How does the warranty policy work?

A₄: We offer a **25-year** global warranty covering product performance and leak-proof guarantees.



Start Your Invisible Energy Revolution
& Seize the Market

Contact Us



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Send us your roof blueprints today
to receive a **FREE** precise budget
and proposal within 3 business days

- Customized 3D roof layout design services are provided AFTER ordering a physical evaluation sample.
- The sample fee is fully deductible from your first official project order.