

Anti-Hail PV Module Solutions

Mitigation Solutions for Extreme Climate Risks, Securing Your PV Investments.

WHY ANTI-HAIL MATTERS

As extreme weather events become more frequent and severe, hail damage has emerged as a major risk for solar assets. Advanced hail resistance is critical to protecting investments, reducing insurance costs, and ensuring long-term project performance.

CANADIAN SOLAR ANTI-HAIL PV MODULE SOLUTIONS

Engineered for extreme climates, delivering superior hail resistance, enhanced fire safety, high mechanical strength, and lower insurance risk.

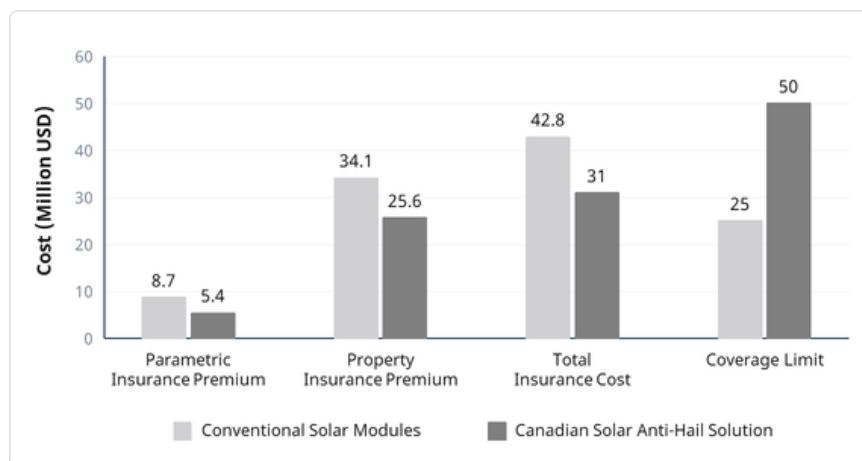
55 mm
Stronger
Hail Resistance

0.45%
Lower
Insurance Rate

Class A
Higher
Fire Rating

Level 17
Stronger
Typhoon Resistance

Enhanced Project Bankability Lower Insurance Costs & Better Coverage



Value of Reduced Insurance Premiums

Insurance Rate Reduction
(Insurance premium rate)

0.60% → 0.45% ↓

30-Year Total Insurance Cost

\$42.8M (Conventional Modules)

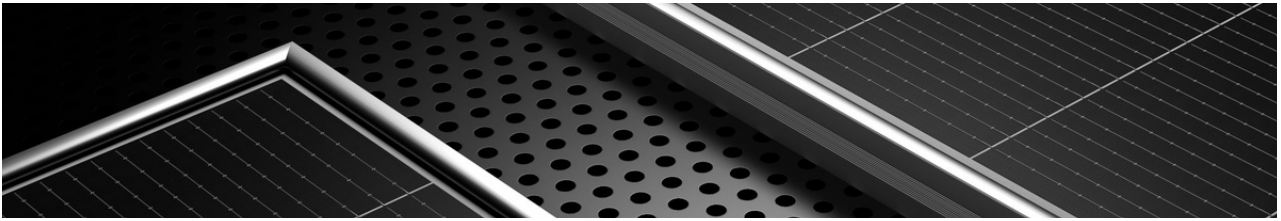
\$31.0M ↓ (Canadian Solar Anti-Hail Modules)

Savings

Save \$11.8M ↓

Reduce Climate Risk for Investors, Lenders and Insurers

* Example based on a 135 MW utility-scale PV project in Texas, USA.



How We Build Superior Hail Resistance



Enhanced Glass Thickness: 2.5 mm + 2.5 mm dual-glass structure for improved impact resistance.



Enhanced Glass Strength: Optimized tempering and glass strength reduce the risk of hail-induced breakage.



Optimized Hole Design: Special round-hole processing reinforces critical stress concentration areas.



High-Strength Frame: 35 mm reinforced frame for increased rigidity and durability.

How We Enable Safer & More Bankable Solar



Reduce Damage Risk: Withstand hail impacts beyond conventional module capabilities.



Lower Insurance Costs: Improved insurability can reduce project insurance premiums.



Increase Coverage Availability: Enhanced risk profile may help secure higher insurance coverage limits.



Protect Long-Term Project Economics: Reduce downtime, replacement costs, and extreme-weather exposure.

Anti-Hail & Fire class a Product Applications

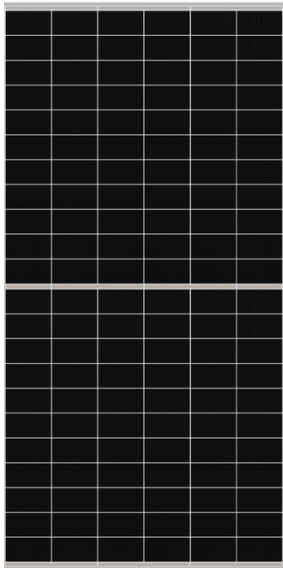


Representative Markets:

- North America, Australia
- Japan & Southeast Asia
- Europe

ANTI-HAIL PRODUCT PORTFOLIO

C&I, Utility



**CS6.2-66TB-HP,
600-660W**

Key Advantages

55 mm hail resistance
Class A fire safety
+5400/-4000 Pa high load capacity
Lower insurance risk
Enhanced project bankability

Management System Certificates

ISO 9001: 2015 / Quality management
ISO 14001: 2015 / Environmental management
ISO 45001: 2018 / Occupational health & safety
IEC 62941: 2019 / PV module manufacturing quality

Product Certificates

IEC 61215 | IEC 61730 | IEC 61701 | IEC 62716

Applications	C&I, Utility Projects
Module Types	CS6.2-66TB-HP
Cell Technology	TOPCon
Module Power	600-660W
Module Efficiency	22.2%-24.4%
Module Size	2382 x 1134 x 35 mm
Module Weight	40.6 kg
Front Cover	2.5 mm tempered glass with anti-reflective coating
Back Cover	2.5 mm tempered glass
Hail Resistance	Tested up to ice ball of 55 mm diameter according to IEC 61215 standard
Mechanical Load	+5400 / -4000 Pa
Module Fire Performance	CLASS A (IEC61730) or TYPE 30 (UL 61730)

**Specifications are subject to the product datasheets. For additional product information, please contact support@csisolar.com*

A reliable solution for reducing climate risk and protecting long-term project returns.