



Anti-Glare PV Module Solutions

Safer Solar Deployment in Glare Sensitive Environments

WHY ANTI-GLARE MATTERS

As solar projects expand into airports, highways, railways, and urban environments, controlling reflected sunlight has become increasingly important.



Airport Environment

Reflected glare may impact flight safety.



Roads & Railways

Strong reflections may affect driver visibility.



Residential Areas

Glare can affect community acceptance of solar projects.

CANADIAN SOLAR ANTI-GLARE PV MODULE SOLUTIONS

Canadian Solar has developed a dedicated Anti-Glare Module Solution, available in power classes ranging from 445 W to 660 W to meet the needs of residential, commercial, industrial, and utility-scale applications.

80%+

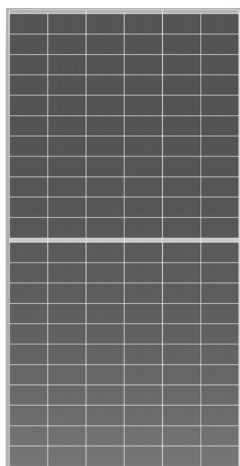
Lower
Glare Intensity

80%+

Lower
Reflectance

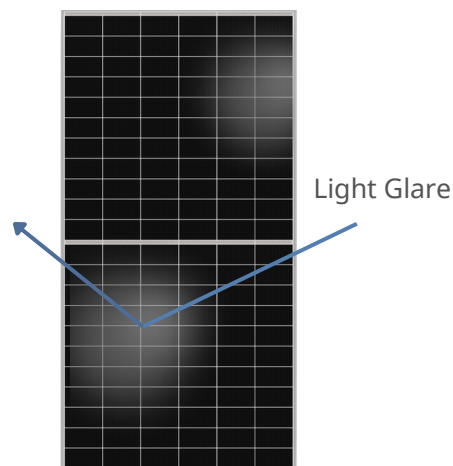
90%+

Lower
Surface Gloss



**Canadian Solar
Anti-Glare Module**

VS



Normal Module



How We Reduce Reduces Glare



Micron-Scale Surface: Transforms smooth glass surfaces into a micro-textured structure, increasing light refraction and reducing direct reflections.



Nano-Scale Coating: Converts concentrated reflections into diffuse reflections, minimizing glare at the source and enhancing glare control performance.



Four Anti-Glare Technologies: Anti-glare glass, optimized coatings, secondary texturing and matte busbars enhance glare reduction performance.

How We Enable Safe and High-Performance Solar



Safer Deployment: Enables safer solar deployment in airports, transportation corridors, residential areas, and other glare-sensitive environments.



Reduce Project Risks: Supports compliance and approval requirements, and reduces glare-concerned project development risks.



Increase Solar Project Capacity: Expand the installable area of solar projects by enabling PV deployment in locations where conventional modules may be restricted due to glare concerns.



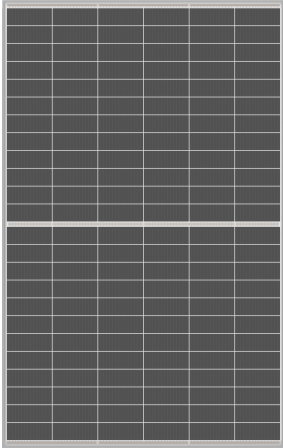
Proven Reliability: Validated by HF (humid freezing) degradation below 2%, 45 mm hail resistance, and +5400/-2400 Pa mechanical load for long-term durability.

Anti Glare Product Applications



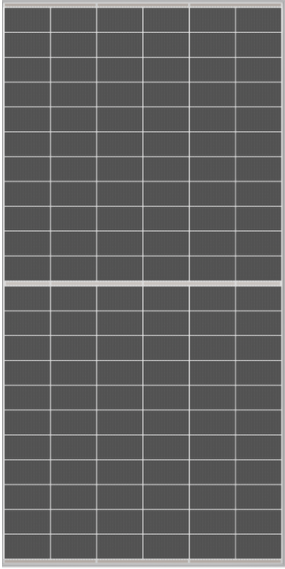
Anti-Glare Product Portfolio

Residential



CS6.2-48TM
440-450W

C&I, Utility



CS6.2-66TB
600-660W

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	Residential Rooftop	C&I, Utility Projects
Module Types	CS6.2-48TM	CS6.2-66TB
Cell Technology	TOPCon	TOPCon
Module Power	440--450W	600-660W
Module Efficiency	22.3%-22.5%	22.2%-24.4%
Module Size	1762 x 1134 x 30 mm	2382 x 1134 x 30 mm
Module Weight	21.3 kg	32.8 kg
Temperature Coefficient	-0.29%/°C	-0.29%/°C
Operating Temperature	-40°C ~ +85°C	-40°C ~ +85°C
System Voltage	1500V (IEC)	1500V (IEC)
Mechanical Load	+5400 / -2400 Pa	+5400 / -2400 Pa
Front Cover	Anti-glare Glass	Anti-glare Glass
Back Cover	Polymer Backsheet	Heat-Strengthened Glass

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

Experience in Glare-Sensitive Solar Applications

Backed by airport solar project experience dating to 2011, Canadian Solar has extensive experience supporting solar deployment in glare sensitive environments.



Thunder Bay Airport Solar Plant, Canada

Location: Ontario, Canada
System Capacity: 8.5 MW
Annual System Output: 7,439 MWh
Installed and Connected: 2011

Case Study

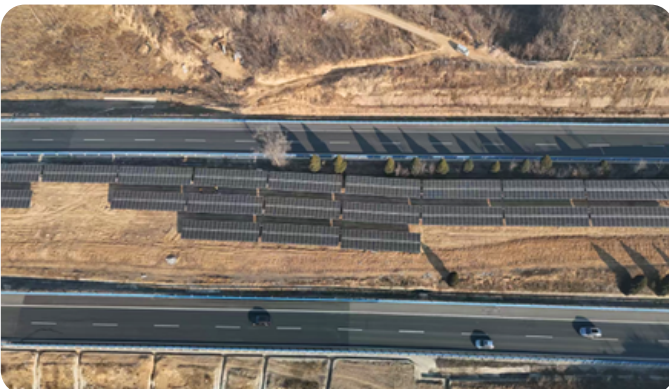
Nanning Airport 2.6 MW Solar Project: Commissioned in June 2026, the project deployed Canadian Solar's CS6.2-66TB Anti-Glare Modules. Built in a glare-sensitive area surrounding the airport, the project demonstrates how anti-glare PV solutions can support solar deployment while providing clean energy for airport operations.



Nanning Airport Solar Project

Location: Nanning, China
System Capacity: 2.6MW
Annual System Output: 2,818 MWh
Modules: CS6.2-66TB Anti Glare Module
Installed and Connected: June 2026

China Railway Materials Group (Tianjin) 7 MW Solar Project: Commissioned in April 2026, the project utilizes Canadian Solar's CS6.2-66TB Anti-Glare Modules. Installed in areas adjacent to railway infrastructure, the system helps reduce visual disturbance while delivering clean and reliable energy for transportation-related applications.



China Railway Materials Group (Tianjin) Solar Project

Location: Tianjin, China
System Capacity: 7MW
Annual System Output: 7,854 MWh
Modules: CS6.2-66TB Anti Glare Module
Installed and Connected: April 2026