

Lightweight Dual-Glass Design

For Enhanced Protection & Excellent Reliability

445W Max Power Output

22.3% Max Efficiency

- N-type TOPCon technology on advanced 210mm cell platform
- 1.6+1.6mm dual-glass design
- Local U.S. manufacturing
- 25 years product warranty & 30 years power warranty
- Award-winning all-black aesthetic design



red^{dot} award

Small in Size, Big on Power

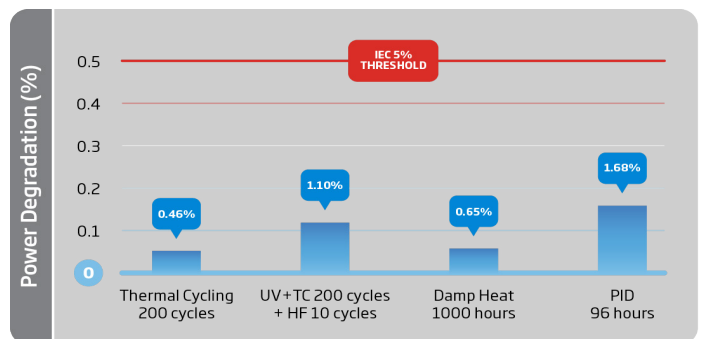
for Lower BoS Costs and Better Value

Ensure High Power Generation through the Module Lifecycle

Engineered with a robust 1.6+1.6mm dual glass design offering premium cell protection to mitigate the risk of micro-cracks and backside scratches, the high-powered, high-efficiency Vertex S+ delivers enhanced protection against common aging factors in nature.

Under the rigorous reliability program of UL 61730 and IEC 61215, this dual glass module construction demonstrates exceptional performance when subjected to thermal cycling (TC), damp heat, Potential-Induced Degradation (PID), ultraviolet (UV) radiation, and humidity-freeze (HF) cycling. In each test, the module's power degradation significantly improves upon the IEC passing criteria of 5% degradation.

IEC 61215 Test Results:
Significantly better than the IEC 5% threshold

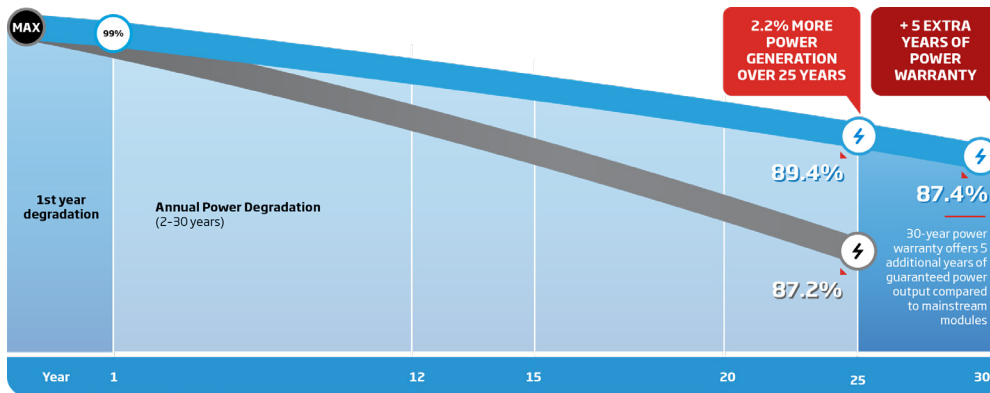


High Resistance to:

- Alkaline environments
- Acidic conditions
- High temperature
- High humidity
- UV-induced Degradation

Long Guaranteed Product Lifecycle

Lower degradation, higher power generation, and longer product warranty



- Vertex S+
- Mainstream Module

- First-year degradation - 1%
- Annual power attenuation - 0.4%
- Lower degradation and longer warranty offers 2.2% high power generation over 25 years, plus 5 extra years of power warranty

TrinaProtect

25-Year Product
and 30-Year Power Warranty

Outstanding Mechanical Load

Improved design features ensure the Vertex S+ module's reliable and excellent mechanical performance in extreme weather conditions.



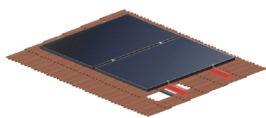
Mechanical loading capacity up to +5400/-5400Pa to handle extreme wind and snow



Proven reduction of microcracks under mechanical load

Ideal Balance Between Power, Size, and Weight

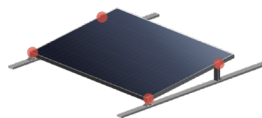
Faster & More Flexible Installations



Crossbeam



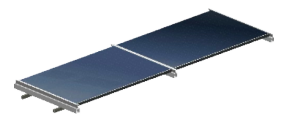
4-Point Mounting
(vertical)



4-Point Mounting
(horizontal)



Shared Rail



Slide In Mounting

Widespread compatibility to pair with most major residential racking systems and inverters.

Interested in learning more?

Please contact us at www.trinasolar.com/us/contact-us

Trinasolar

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