



Power Beyond Solar

The World Leading PV and Smart Energy IoT Total Solution Provider









Official Website



information

For more information regrading Vertex module, please follow our social media accounts or scan the QR codes to visit us at our website.

Vertex 510W+

THE KING OF **DISTRIBUTION PV MODULE**

- 510W+ Ultra-high Power
- 21.2%+ High Efficiency

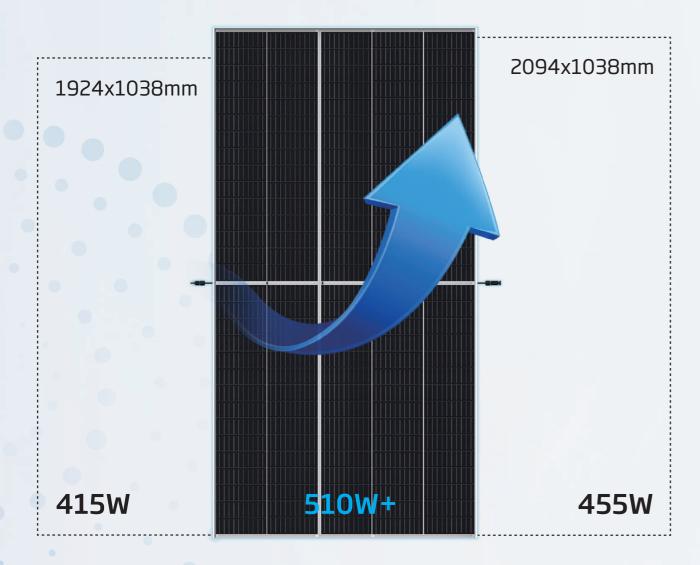




Productive / Reliable / User-friendly

Introduction of Vertex 510W+

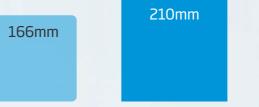
50~90W+ higher power output with similar size



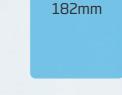
Vertex module size: 2187x1102x35mm
Weight(monofacial): 26.5kg Weight(bifacial): 30.1kg

210, The Future from Now On!

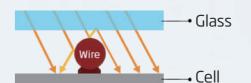
Vertex module with 510W+ power and 21.2%+ efficiency



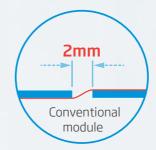
The most advanced silicon product in photovoltaic industry







Multi-busbar technology, improving optical utilization rate with higher electricity performance, Module power increase $2^3\%$, efficiency increase $0.4^0.6\%$





High density encapsulation technology, optimizing power output with good balance between reliability and efficiency, module efficiency increase 0.2~0.3%

Non-destructive Cutting(NDC) Technology







Cross-section from NDC

Achieving better cell strength, lower micro-cracks risk for better product reliability

Vertex 510W+ Productive, Reliable, User-friendly

More installation capacity, lower BOS cost



Case study with Vertex 510W module

1MW industrial reference project

Location: Mid-latitude region

Type: flat factory rooftop

Size: 120x80m Area: 9600m²

	410W 158 72/166 66	450W 166 72	Vertex 510W
Installed capacity (kWp)	944.64	1036.8	1152
Inverter price (c USD/W)	+ 0.2	Baseline	-0.2
Rail (c USD/W)	+ 0.39	Baseline	- 0.39
Cables(DC+AC) (c USD/W)	+ 0.39	Baseline	- 0.39
Combiner box (c USD/W)	+ 0.23	Baseline	- 0.2
Other costs (incl. installation cost) (c USD/W)	+ 0.69	Baseline	- 0.69
Difference in BOS (c USD/W)	+1.9	Baseline	-1.87

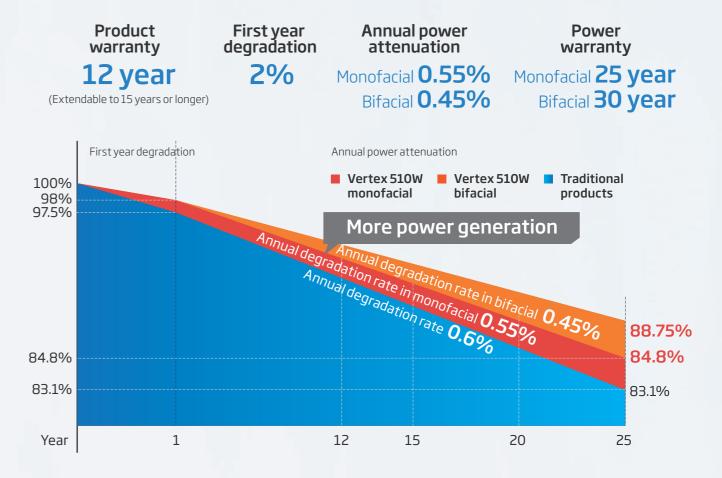
Installation capacity increase up to 11~22% BOS saving up to 1.87~3.77 c USD/W

More power generation in lifespan Shorter investment pay-back time



High Reliability

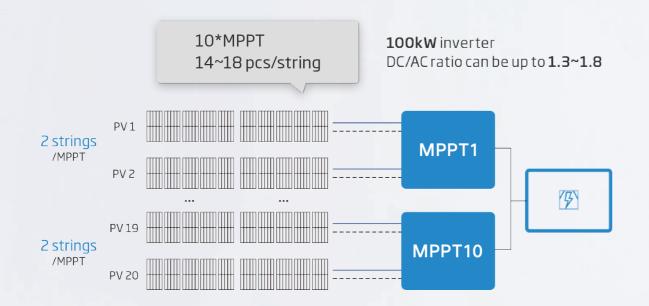
Dedicated design for distribution projects and utility projects with harsh environment



Think Ahead, Design Ahead

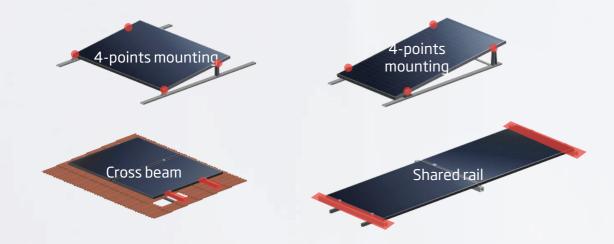
Plug-and-play design without worrying about system compatibility

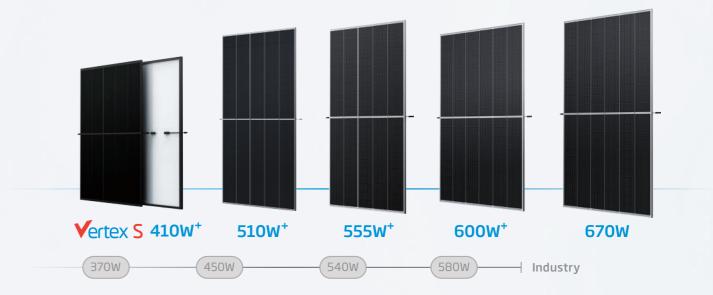
Vertex **500W** Module Monofacial Isc: **12.1A** Voc: **51.5V**



Simplify design and installation work, Compatible with multiple installation methods

For details, please refer to Trina Solar User Manual or contact technical support team







• 510W+ ultra-high power with 21.2%+ high efficiency



- · More electricity generation in lifespan
- 1st year degradation 2%, Annual degradation rate in bifacial 0.45%, in monofacial 0.55%



Monofacial and bifacial modules



 12 years product warranty, 25/30 years power warranty



- Plug-and-play design without worrying about system compatibility
- System adaption in one step



 $\bullet \ \, \text{Shorter investment pay-back time}$



- Compatible with multiple installation methods
- Simplify design and installation work



• BOS saving up to 1.87~3.77 c USD/W

