

Power Beyond Solar

The World Leading PV and Smart Energy IoT Total Solution Provider



Vertex S+ product information



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For more information regarding Vertex S+ module,
Please follow our social media accounts or scan the QR codes to visit us at our website.

Vertex S⁺

Full Black



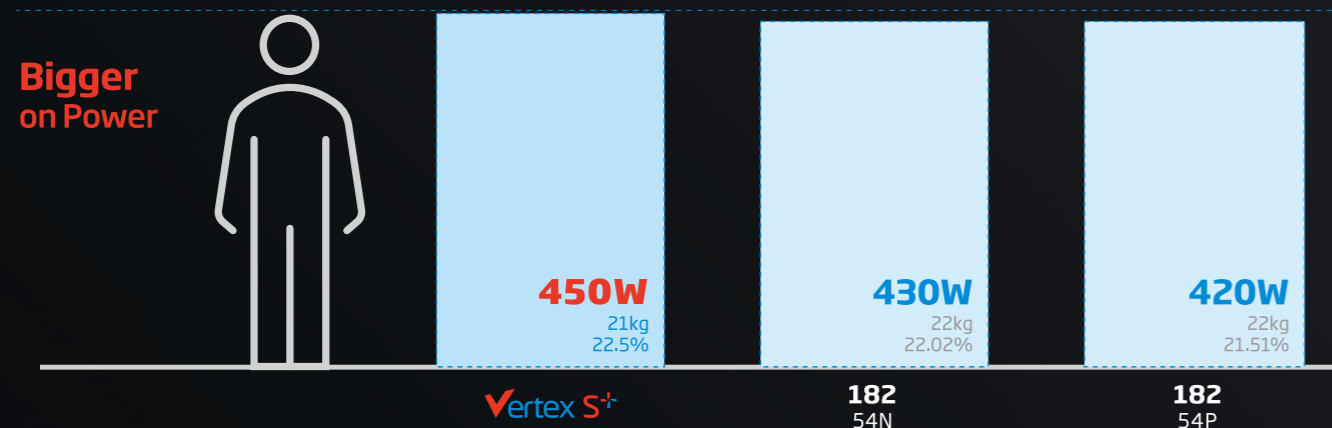
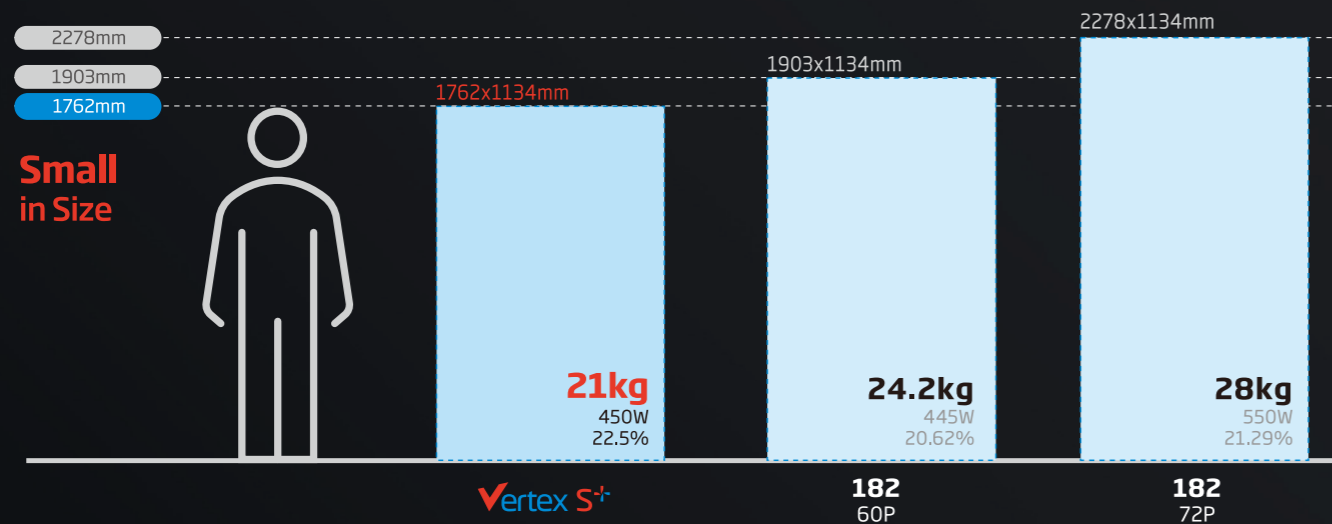
450W+

Dual Glass Monofacial Module

Small in Size, Bigger on Power

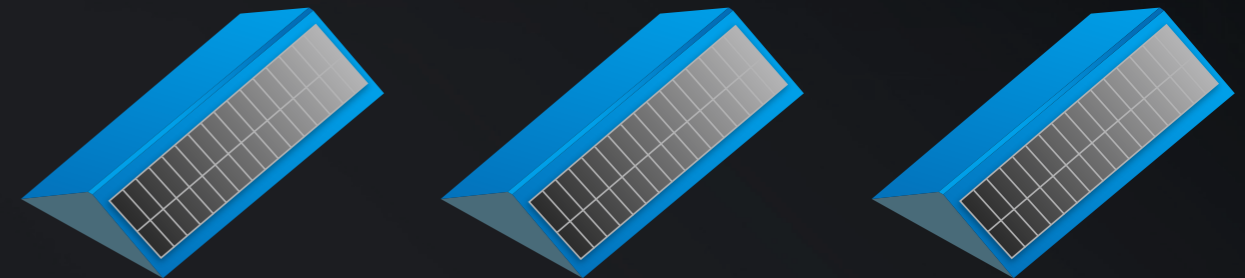
Excellent Balance between Power, Size and Weight

1.76m module size, up to **40W⁺** power higher



	210R 48 N	182 54 N	182 54 P
Power(W)	450	430	420
Efficiency(%)	22.5	22.02	21.51
Structure	Dual-glass	Backsheet	Backsheet
Dimension(mm)	1762*1134*30	1722*1134*30	1722*1134*30
Weight(kg)	21	22	22
Mechanical load(Pa)	5400/4000	5400/2400	5400/2400
Fireproof class	Class A+C	Class C+C	Class C+C
TransportationCapacity(kW)	421	402	393
Warranty(Year)	up to 25+30	15+30	12+30

More Installation, Less Cost, and High Revenue



Vertex S⁺ 450W
2rows16columns
14.4kW installed capacity

182-54P 420W
2rows16columns
13.44kW installed capacity

182-54N 430W
2rows16columns
13.76kW installed capacity

For 25-year power generation on a south-faced sloping rooftop with size of 16.7m x 5.5m



The power generation in the 25 years could be **15.1%** more and the extra **57,826kwh** electricity gain can drive the EV for **404,377km**

power generation **↑ 15.1%**

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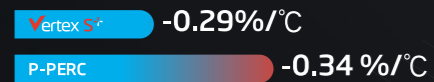
drive the EV **+ 404,377km**



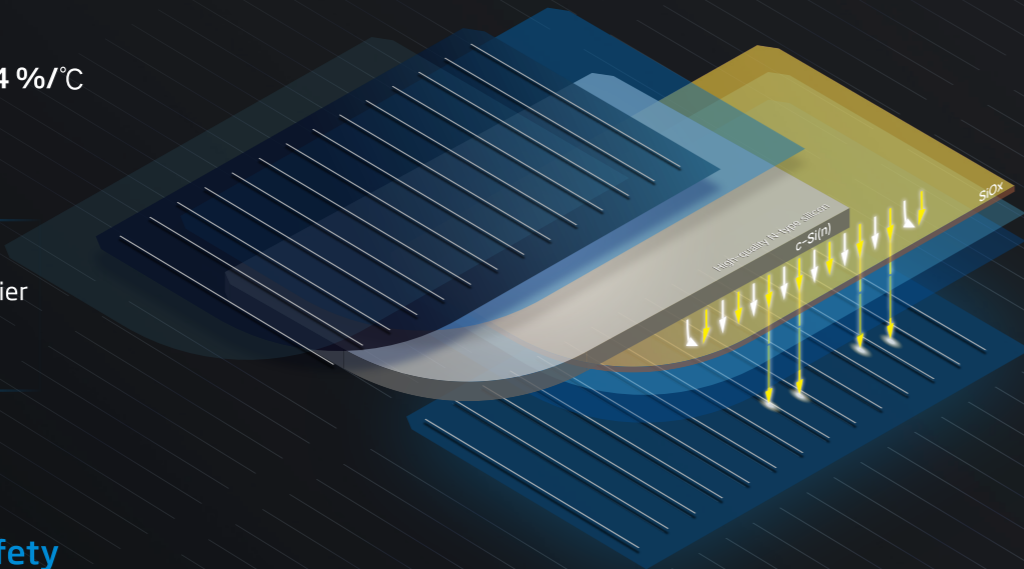
Advanced technology, Aesthetic design

n type i-TOPCon technology with 210mm innovative platform

Low temperature coefficient: $-0.29\%/^{\circ}\text{C}$

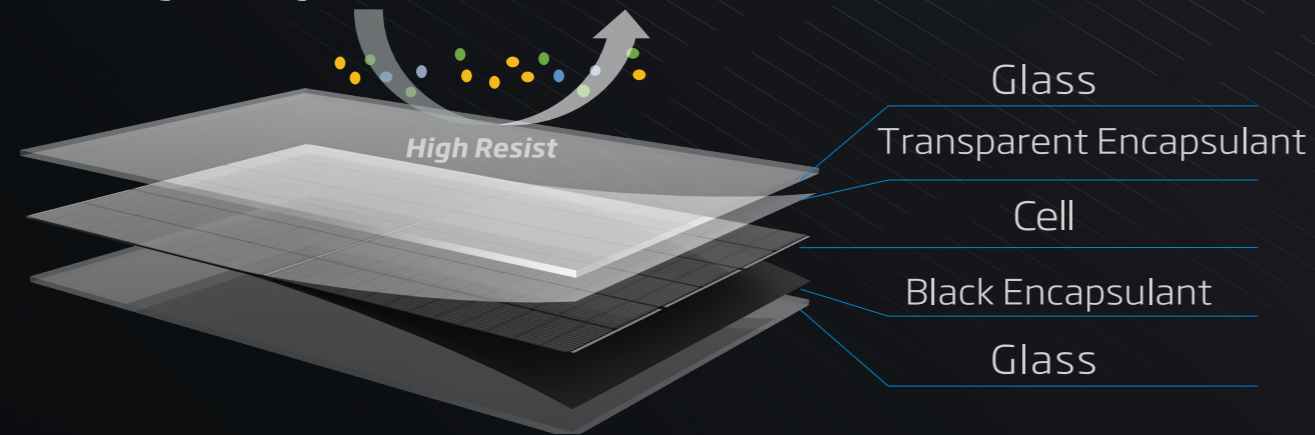


With *n*-type silicon wafer as substrate, the minority carrier life is longer than P-type silicon wafer



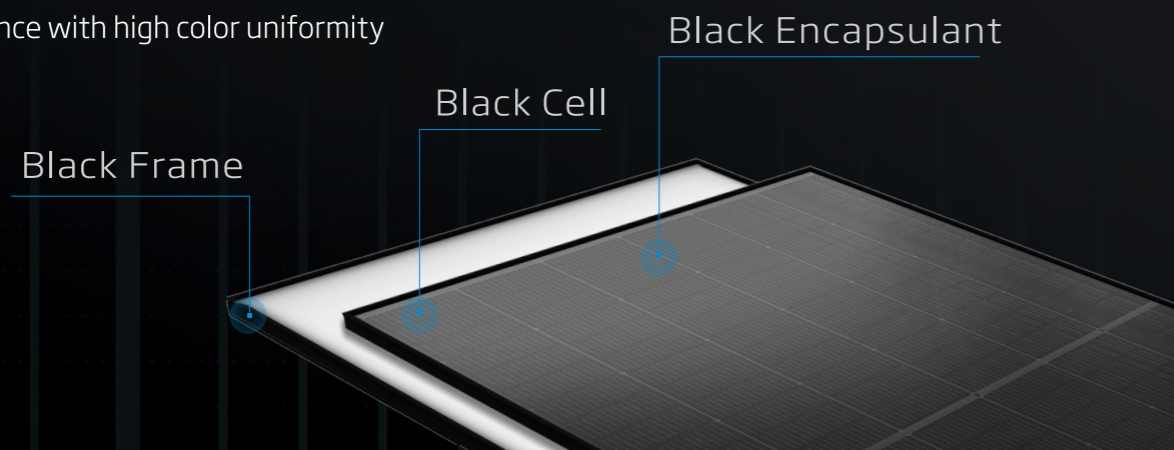
High reliability and safety

1.6+1.6mm **dual glass** design



Full Black Design

- Award-winning black aesthetic design
- Full black appearance with high color uniformity



Outstanding Mechanical Load



Positive mechanical load up to **5400Pa** with snow thickness of $>2\text{m}$



Pass 35mm Hail Test according to IEC61215-2 : 2016 ;



Negative mechanical load up to **4000Pa** with wind speed of 235km/h

Better frame design for Vertex S+ :

- thicker frame profile
- stronger material strength
- larger frame chamber to disperse loading pressure

Vertex S+ is specially designed for working at extreme weather conditions thanks to its excellent mechanical performance.

Flexible installation and high system compatibility



* According to IEC2016 with SF=1.5

Isc: 10.68A

Voc: 52.2V



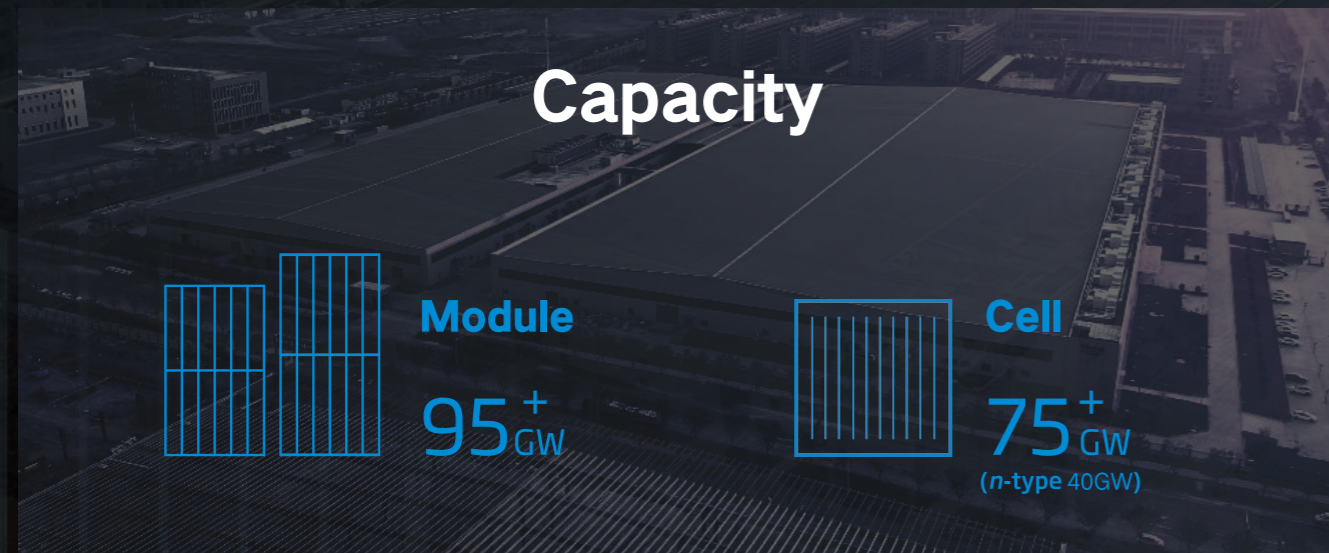
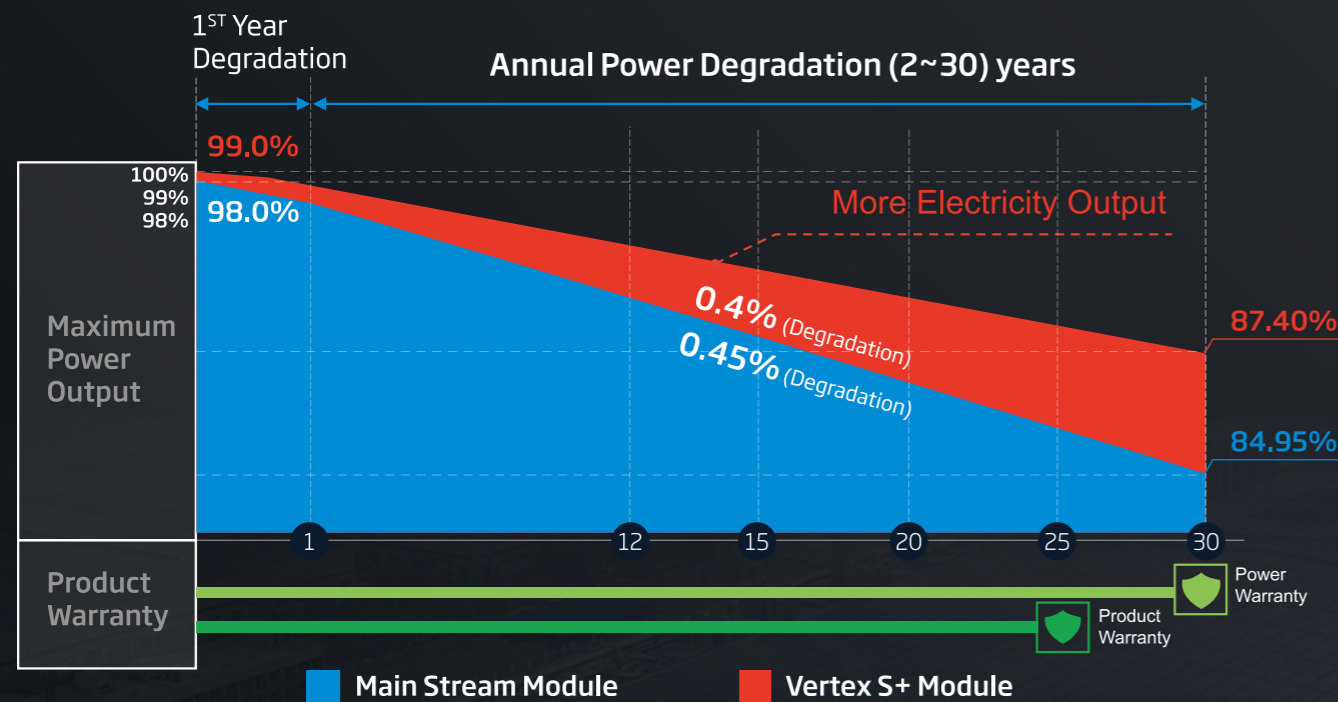
Plug-and-play, no need to worry about system compatibility.

Long Guaranteed Product Lifecycle

Lower degradation, higher power generation, and longer product warranty

Product warranty up to 25 years	First year degradation 1%	Annual power attenuation 0.4%	Power warranty 30 years
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Lower degradation, ~2.5% higher power reservation up to 30 years



The Future From Now On, More than Bigger Power

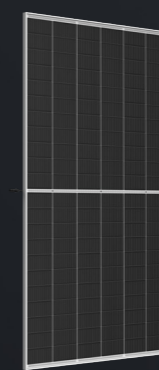
Maximum power output
450W⁺

Maximum efficiency
22.5%⁺

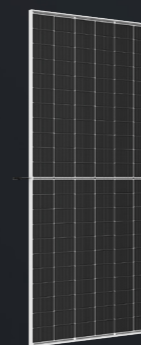
- ✓ n type i-TOPCon technology with 210mm innovative platform
- ✓ 1.6+1.6mm dual glass design
- ✓ Aesthetic full black design
- ✓ Higher power, more energy gain
- ✓ Outstanding reliability and safety
- ✓ Up to 25 years product warranty, 30 years power warranty
- ✓ 11% lower carbon footprint

Vertex N

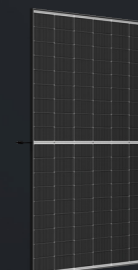
Vertex S⁺



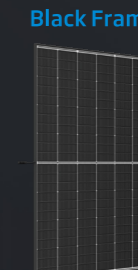
720W+



625W+



505W+



455W+



450W+



445W+