

#### **Power Beyond Solar**

The World Leading PV and Smart Energy IoT Total Solution Provider



Vertex Product information



Vertex Production







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



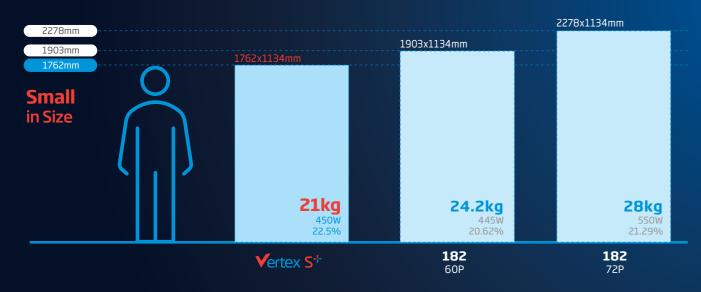
450W+

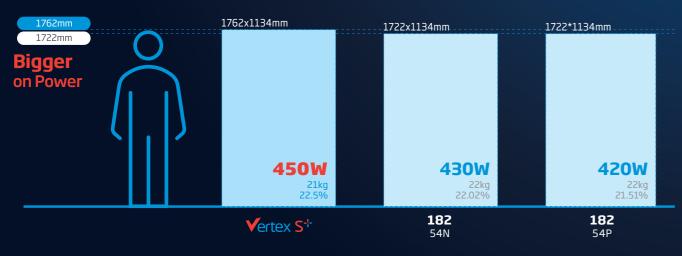
Small in Size Bigger on Power

## Small in Size, Bigger on Power

Excellent Balance between Power, Size and Weight

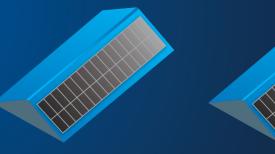
1.76m module size, up to 40W<sup>+</sup> power higher



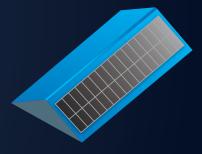


	210R 48 N	182 54 N	182 54 P
Power(W)	450	430	420
Efficiency(%)	22.5	22.02	21.51
Structure	Dual-glass	Backsheet	Backsheet
Dimension(mm)	1762*1134*30	1722*1134*30	1722*1134*30
Weight(kg)	21	22	22
Mechanical load(Pa)	5400/4000	5400/2400	5400/2400
Fireproof Class	Class A+C	Class C+C	Class C+C
TransportationCapacity(Kw/40HCContainer)	421	402	393
Warranty(Year)	up to 25+30	15+30	12+30

# More Installation, Less Cost, and High Revenue







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

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

Vertex S<sup>1</sup> 450W 2rows16columns 14.4kW 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 **57,826**kwh electricity gain can drive the EV for **404,377**km

power generation **15.1%** 



drive the EV +404,377km

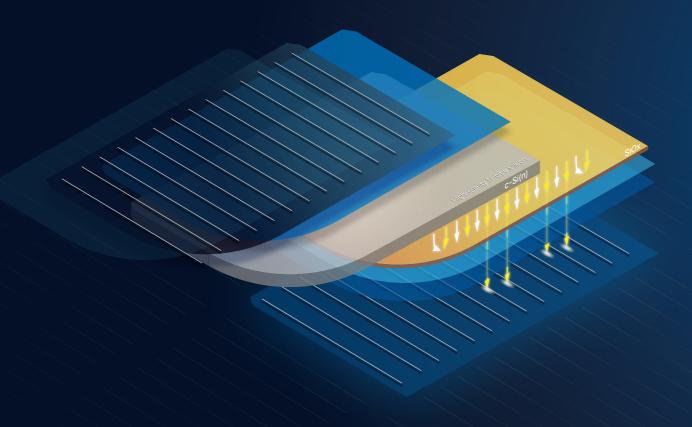
# Advanced technology, High reliability

#### High reliability

1.6+1.6mm **dual glass** design



#### n type i-TOPCon technology with 210mm innovative platform



Low temperature coefficient:-0.30%/°C

-0.30 %/℃ -0.34 %/°C With N-Type silicon wafer as substrate, the minority carrier life is longer than P-type silicon wafer

### **Outstanding Mechanical Load**







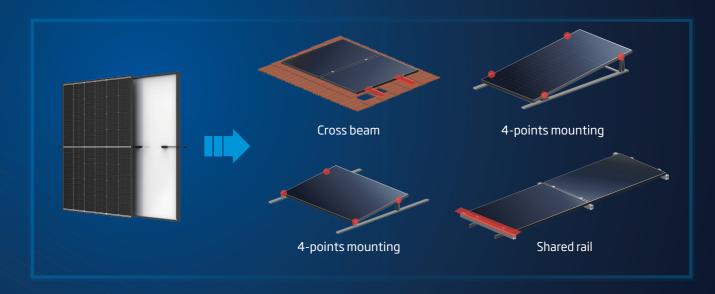
Better frame design for Vertex S+: · thicker frame profile

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



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

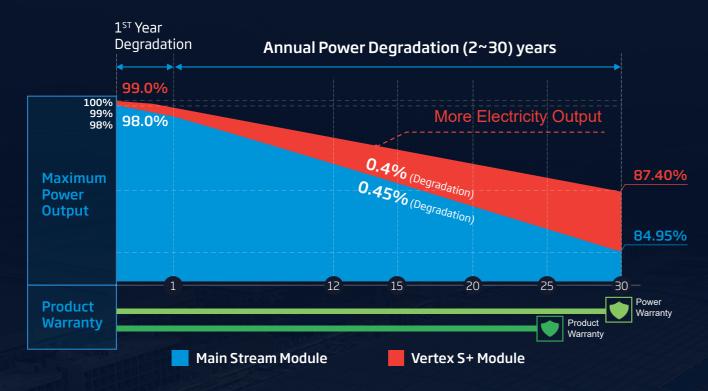
First year degradation 1%

Annual power attenuation 0.4%

Power warranty

30 years

#### Lower degradation, ~2.5% higher power reservation up to 30 years





## The Future From Now On, More than Bigger Power

Maximum power output

Maximum efficiency

450W

22.5%+

- ✓ n type i-TOPCon technology with 210mm innovative platform
- ▼ 1.6+1.6mm dual glass design
- ✓ Higher Power, More Energy Gain
- Outstanding reliability and safety
- ✓ up to 25 years product warranty, 30 years power warranty
- ▼ 11% lower carbon footprint



