

Polaris Series

505W + 550W

The Polaris Series is designed to meet the needs of a variety of different applications. Whether installing it on a carport, flat-to-pitched roof conversion or sun shed, the Polaris Series is adaptable and versatile. One of the standout features of the Polaris Series is its double-chamber design, which ensures that the frames are structurally stronger and more durable. Additionally, the modular installation technology and integrated drainage structure make it incredibly easy to install, saving time and less hassle. The Polaris Series also offers comprehensive performance advantages in safety, applicability, durability, economy, and environmental friendliness.



High Impact Resistance

- Wind-resistant design
- Double chamber design
- Maximum static load on the front $\geq 5400\text{Pa}$



Integrated Diverse Applications

- Carport
- Flat-to-pitched Roof Conversion
- Sun Shed



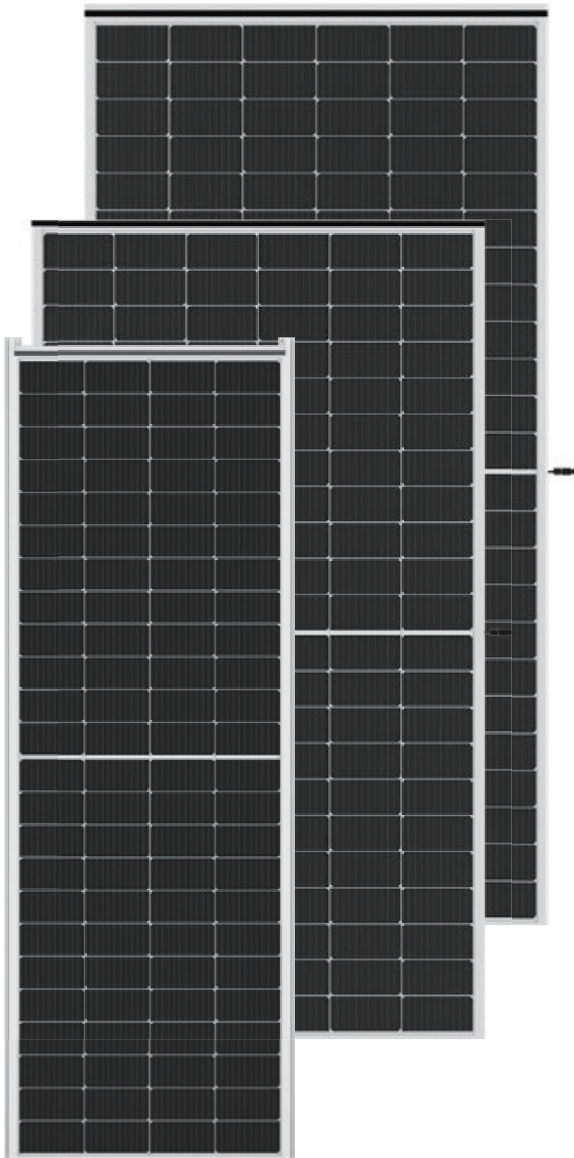
Fast Installation

- Modular design, easy to replace
- Structured integrated drainage



High Power Generation

- High-efficiency Mono PERC cells



Structural Data	505W	550W
Size	2106x1165x25.6mm	2310x1160x25.6mm
Weight	30kg	32kg
Cell Type	Mono-Si PERC	Mono-Si PERC
Electrical Data (STC) <small>STC:AM=1.5, irradiance 1000W/m², component temperature 25° C</small>		
Max Power (Pmax)	505W	550W
Voltage at Max Power (Vmpp)	38.12V	41.35V
Current at Max Power (Impp)	13.02A	13.30A
Voltage at Open Circuit (Voc)	45.67V	49.84V
Current at Short Circuit (Isc)	14.15A	14.18A
Power	205W/m ²	200W/m ²
Temperature Coefficient		
Isc	0.048%/C	0.048%/C
Voc	-0.28%/C	-0.28%/C
PMPP	-0.35%/C	-0.35%/C
Mechanical Load		
Max Front Side Static Load	5400Pa	5400Pa
Max Rear Side Static Load	2400Pa	2400Pa
Carbon Neutral Index (30 years)		
Energy Output	14990kWh	16326kWh
Equivalent to Standard Coal	4572kg	4980kg
Carbon Emission Reduction	8710kg	9486kg



Solar-plus-storage and EV Charging Carport



Flat-to-pitched Roof Conversion



Sun Shed