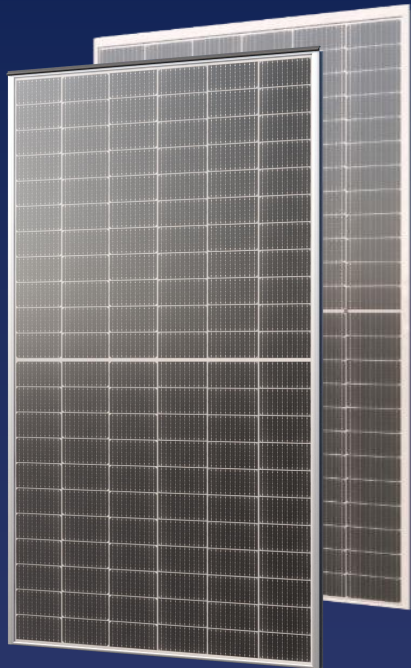


GOODWE

Polaris Product introduction

UP TO A SUSTAINABLE FUTURE

Datasheet



Highly cost-effective

Ventilation

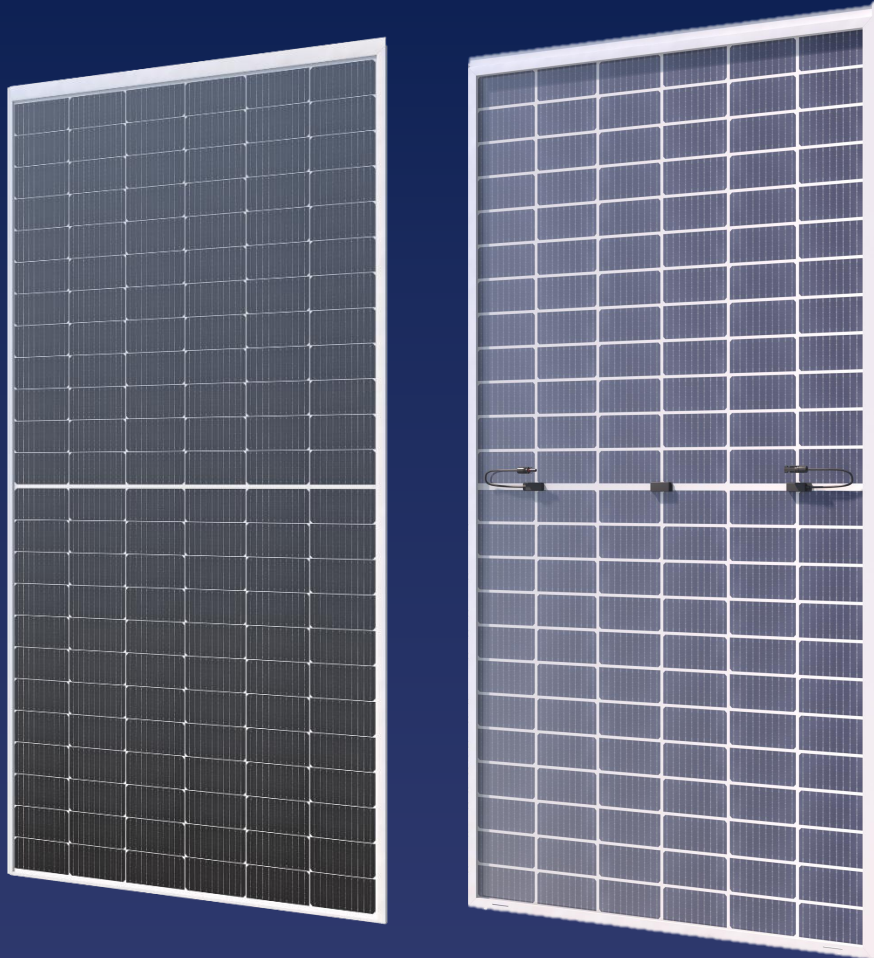
Safe

Easy maintenance

Waterproof

Product Name		Polaris
Product Model	BMT-P2/132A	BMT-P2/144A
Max. Power	525W	575W
Hoop Fixing Size(mm)	2142(L)*1160(W)*29.6(H)	2327(L)*1160(W)*29.6(H)
Weight(kg)	30	32±0.5
Cell Quantity	132(22×6)	144(24×6)
Voc (V)	47.99	52.69
Isc (A)	14.85	14.91
Working temperature	-40 °C~+85 °C	
Fire Class	A	
Maximum system voltage	1500 V	
Structure	Double glass	
Installation method	Hoop fixing	

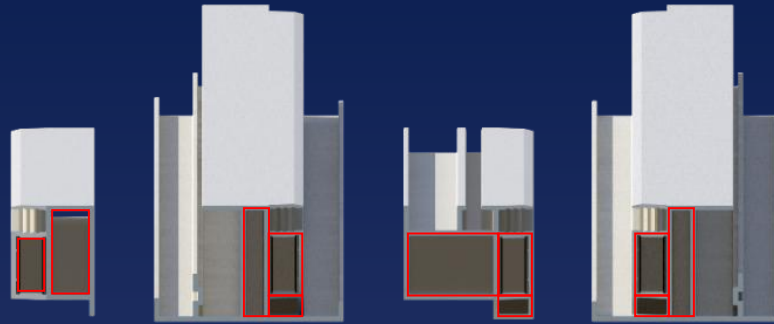
Certification



CE
TUV
COMMISSION TESTING (IEC 61701)
CEC

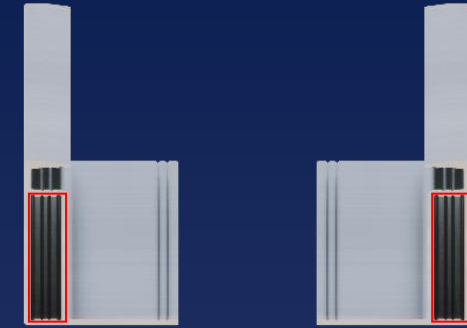
Reinforced Structural Safety

 Chamber reinforcement design



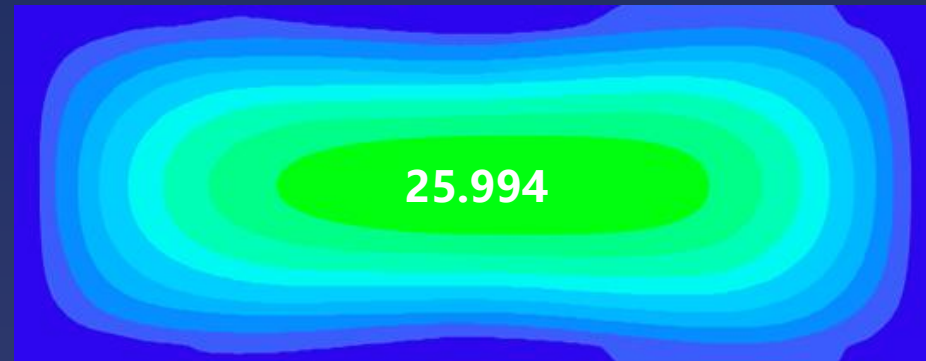
Polaris series

VS



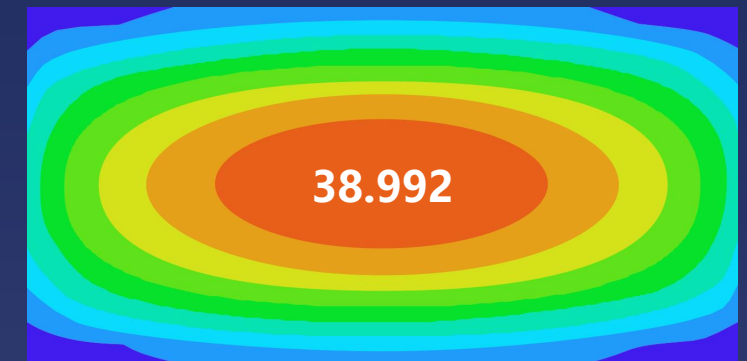
Conventional PV module

 Mechanical load
Front- 5400Pa
Back- 2400pa



Polaris series

Structural
deformation (mm)

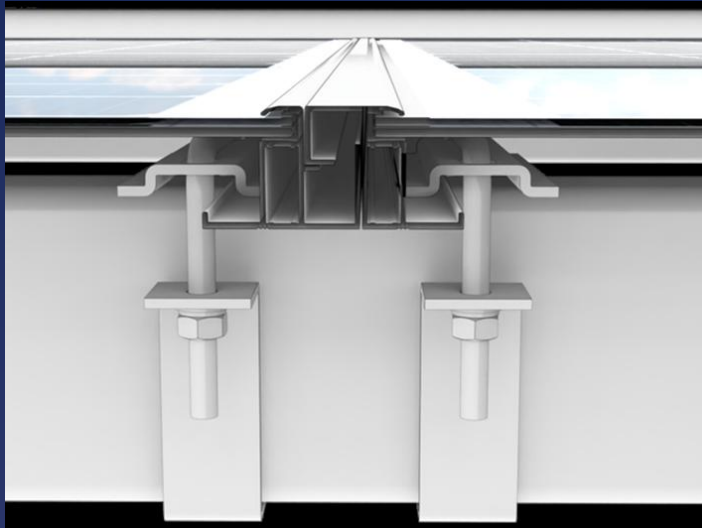


Conventional PV module

Structural Waterproofing



Single tile dispersion drainage

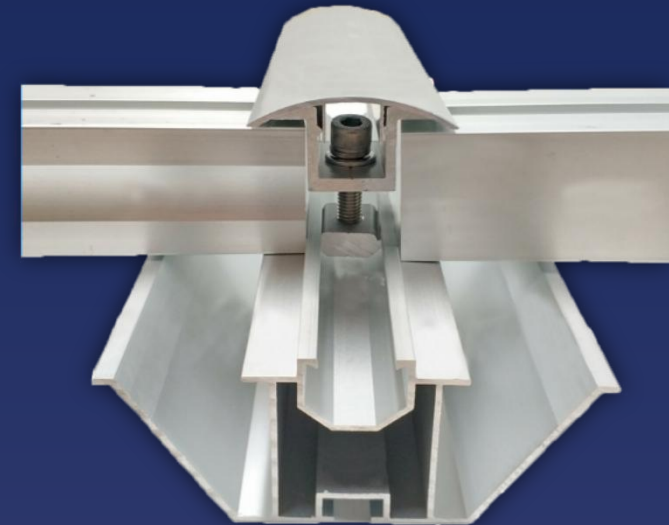


Polaris series

VS



Confluent centralized drainage



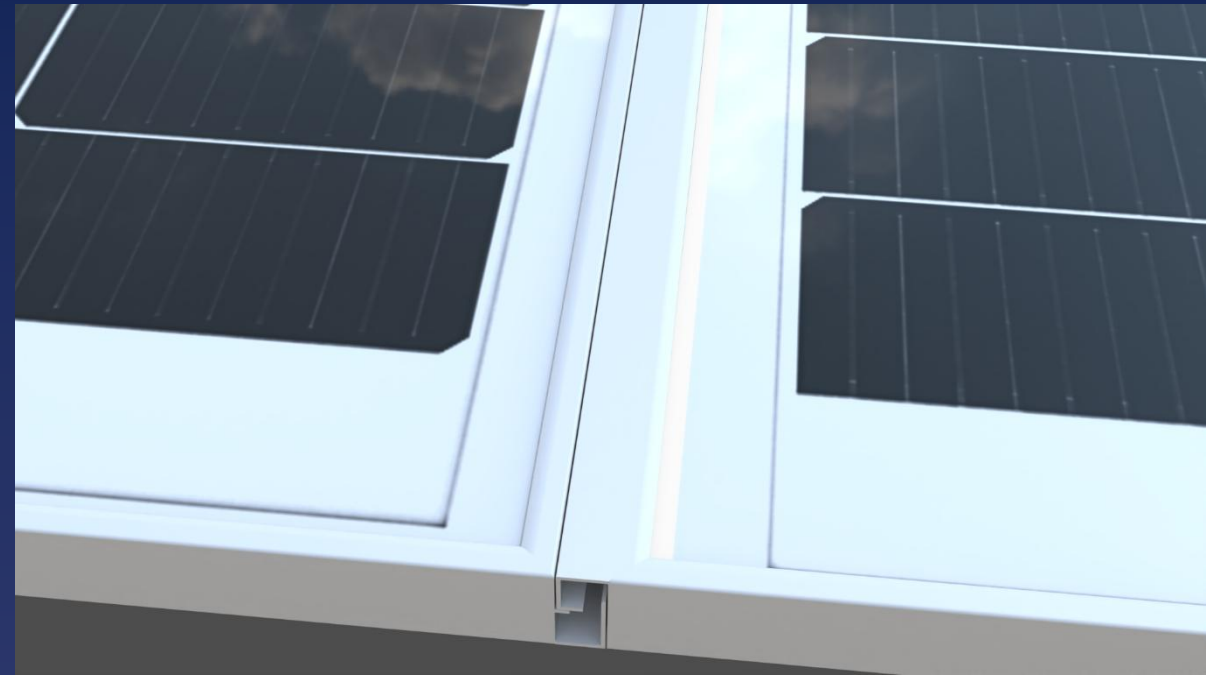
Conventional module

Hoop Installation Diagram

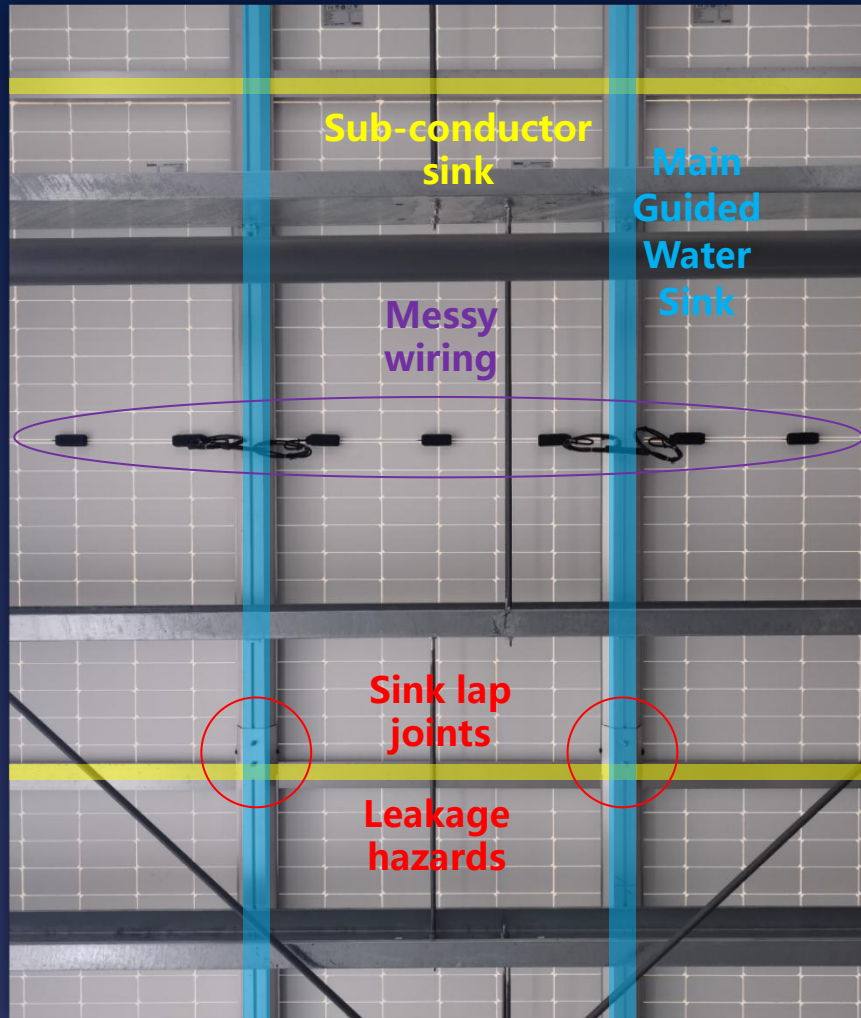
Polaris Series—Hoop installation



Overlapping detail



Comparison of details



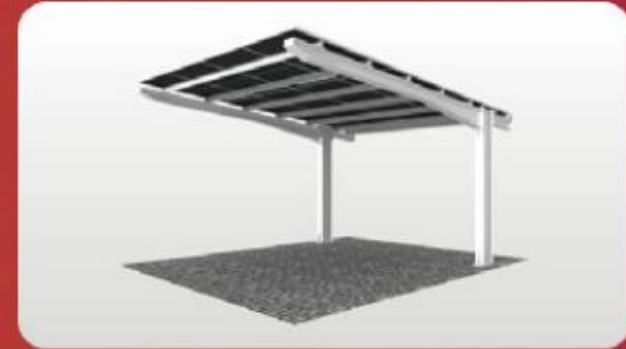
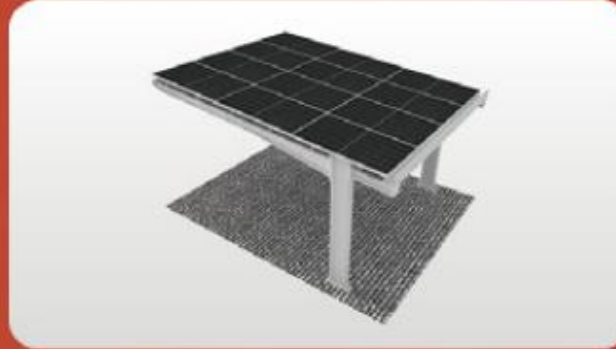
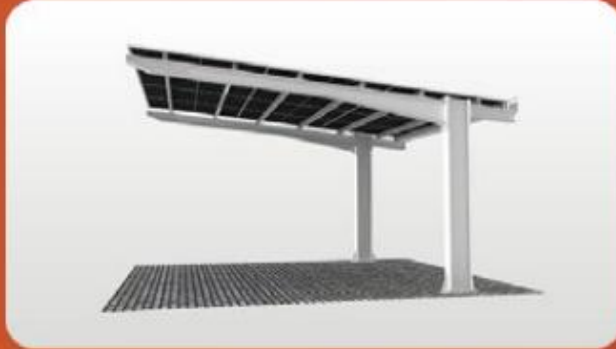
Conventional PV module

VS



Polaris series

Carport Solution – Residential Projects



Features



Power Output

6.06 – 7.875 kWp



Carport Structure Length

6550 mm



Carport Structure Width

4800 – 5200 mm



Solar Panels

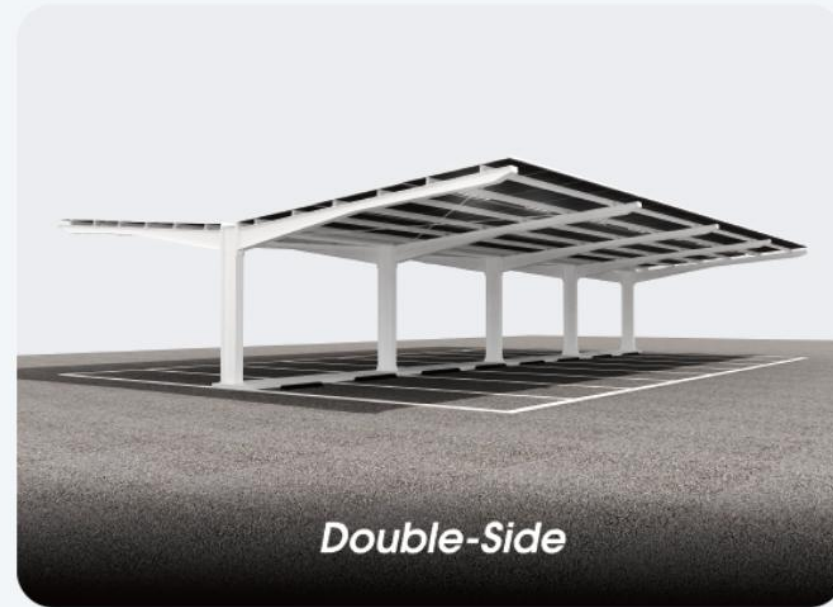
GoodWe Polaris 505W or 525W



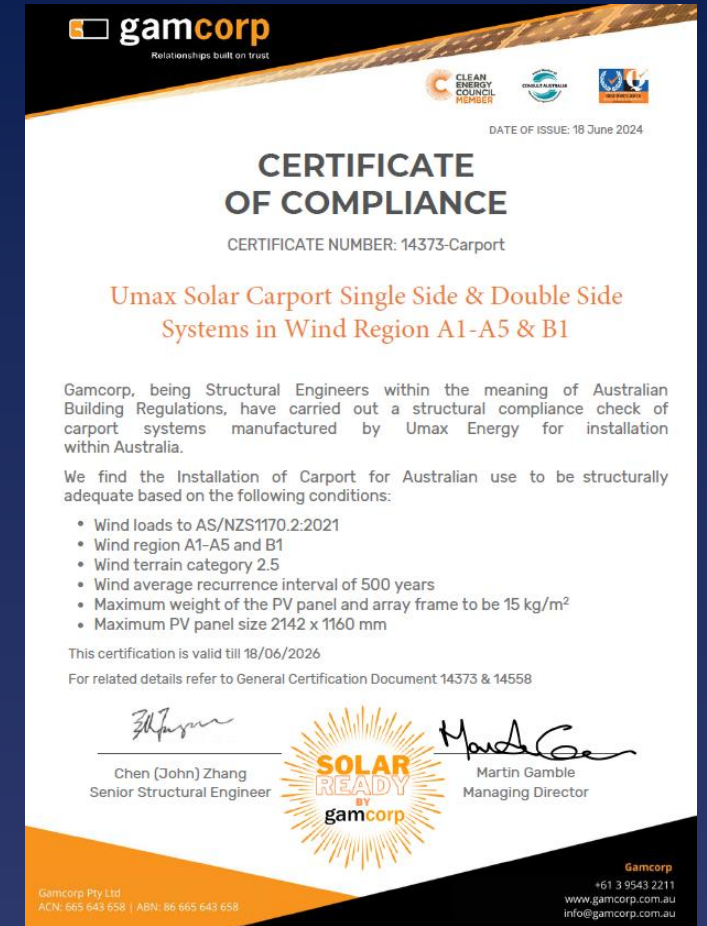
Solar system annual generation: 8,850 kWh – 11,500 kWh

Carport Solution – Commercial Projects

Modular single or double side carport design for up to 18 parking spots
Expandable to any desired number of parking spaces with customised design
Ideal for commercial projects.



Certificate



Polaris panel has achieved TUV and CE certificate and is Australia CEC listed.
Umax Solar Carport has been structurally certified by Gamcorp.

Full range of solar storage and charging system products



Hybrid Energy
Storage Inverter



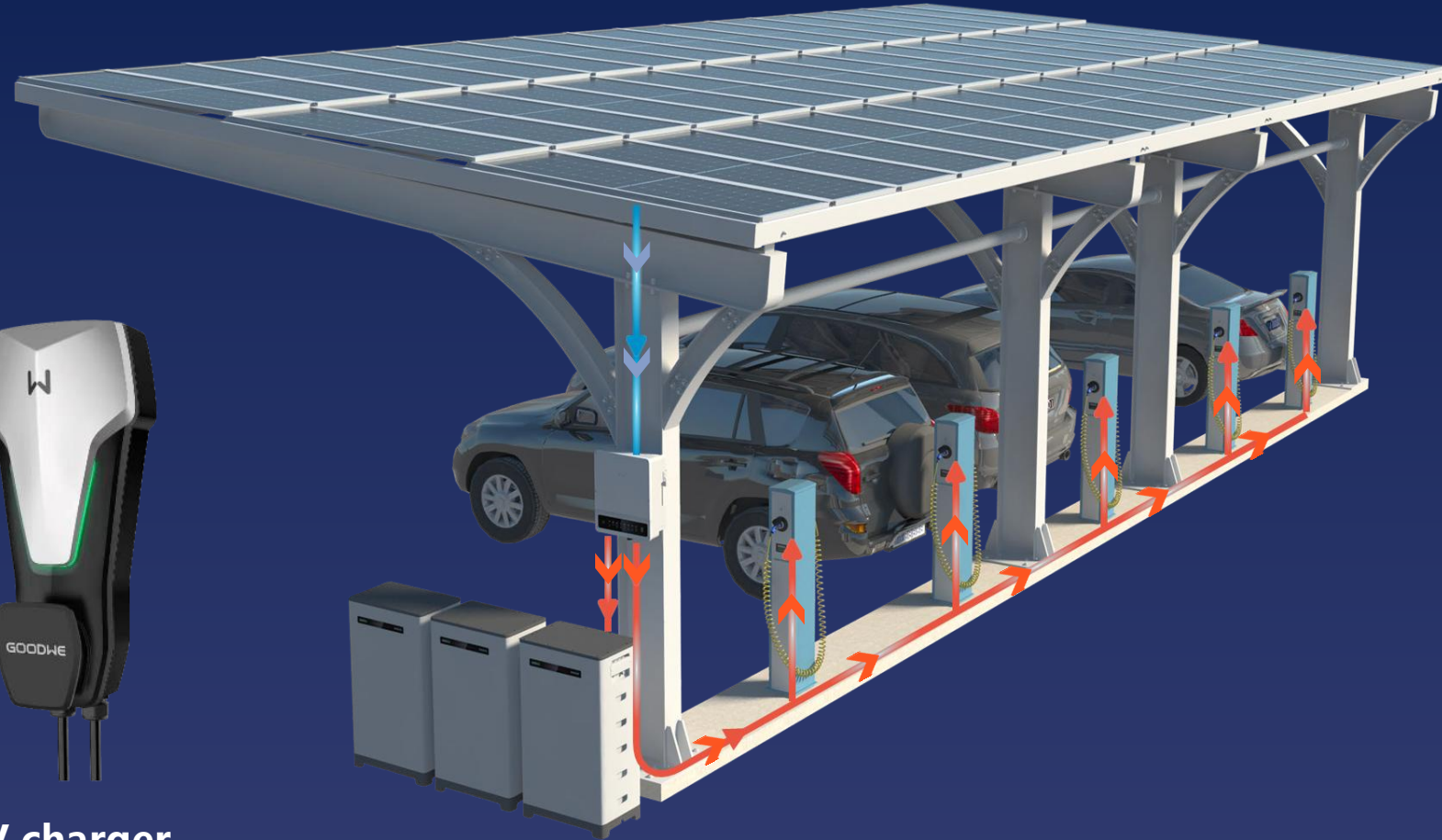
Polaris Tile



Lithium-ion
battery



EV charger



Application Scenario—Highway service areas



Application Scenario—Charging stations



Application Scenario—Parking lot



GOODWE

11.6kW Polaris Waterproof
3 Cars' Solar Carport



Polaris Series GoodWe GuangDe Factor Optical Storage and Charging Integrated Carport



GuangDe Anhui, China

- ❖ System size: 31kWp
- ❖ Photovoltaic area: 168m²
- ❖ Annual power generation: 33MWh
- ❖ Equivalent reduction in CO₂ emission: 25.9t
- ❖ Equivalent trees planted: 5157
- ❖ Inverter: GW30K-MT

*STC: 1000W/m², 25°C, AM1.5G
Carbon emission factor 0.785kg/kWh

The solution of zero-carbon carport offers an integrated system of power generation, energy storage and all-day charging.

The solar carport is constructed using technology that is not only solid, beautiful and simple but also offers a complete waterproof shading surface. This helps to promote the concept of clean energy in the society and help create a new era of real zero carbon travel.

Polaris Series Huaining Government Offices Building Carport



HuaiNing Anhui, China

- ❖ System size: 117kWp
- ❖ Number of parking spaces: 40
- ❖ Annual power generation: 110 MWh
- ❖ Equivalent reduction in CO₂ emission: 86.4 Tons
- ❖ Equivalent trees planted: 17190
- ❖ Inverter: GW20KF-DT

*STC: 1000W/m², 25°C, AM1.5G
Carbon emission factor 0.785kg/kWh

GoodWe works closely with the local government to jointly develop and build zero carbon projects. The government has taken the lead in implementing the national carbon reduction policy by using GoodWe Polaris series products to build carports at office buildings for low-carbon daily travel.

Polaris Series Goodwe R&D building Solar-powered EV charger with integrated battery storage carport



Suzhou Jiangsu

- ❖ System size: 145.27kWp
- ❖ Photovoltaic area: 757m²
- ❖ Annual power generation: 151 MWh
- ❖ Equivalent reduction in CO₂ emission: 118.5t
- ❖ Equivalent trees planted: 23598
- ❖ Inverter: GW30K-ET*2

*STC: 1000W/m², 25°C, AM1.5G
Carbon emission factor 0.785kg/kWh



In the context of new energy and carbon emission reduction revolution, GoodWe responds to the government's call, use "Up to a sustainable future" as its vision, creating Polaris series product to help zero carbon policy, Solar-powered EV charger with integrated battery storage carport is more flexible, safe and reliable than conventional PV carport.



UP TO A SUSTAINABLE FUTURE

