

GOODWE

Engineered by  UMAX



Villa Meets Vela, Forms A Bella

Modular Design Residential Solar Carport-Vela

GoodWe Vela Series



Certification TÜV



Adjustable Height & Lightweight



All-Aluminum Alloy

Smart Upgrade Long-Term Saving

Why settle for a traditional carport when you can have the Vela Series Solar Carport? This integrated waterproof solar carport not only protects your vehicle, but also provides free charging and power for your home, turning expenses into a smart investment.

With its modular design and quick 6-hour installation, the Vela Series Solar Carport has a shorter payback period, resulting in long-term savings and peace of mind. Save money on electricity, reduce your expenses, and reap the benefits of sustainable living.

Hassle-free Installation

Structural Waterproof Panels



Integrated with GoodWe Polaris BIPV Panels, featuring a built-in waterproof structure with no glue required, for a tidy and aesthetically pleasing finish.

Innovative Modular Design



We provide the versatility and adaptability required for any residential environment with our modular carport system. You can accommodate slopes with adjustable pole heights, guaranteeing a perfect fit for your space.

Easy Installation



The lightweight construction allows for easy, personal installation without the need for heavy machinery, making it accessible to homeowners.

Cost-Savings



Maximize space by sheltering your vehicle from wind and rain while also charging your EV for free and cutting your bill.

Versatile Expansion Support



The system supports a variety of expansion features, including optional CCTV, lighting, and other household necessities.

All-in-One



For convenience, the entire system comes in a single, integrated package, simplifying transportation and procurement.

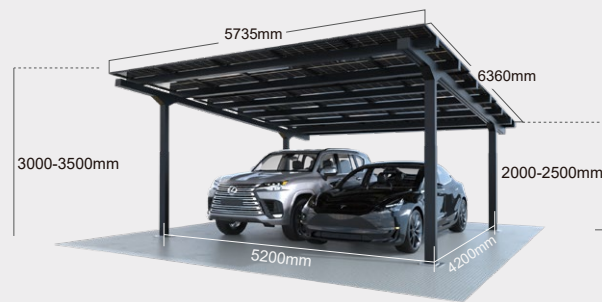
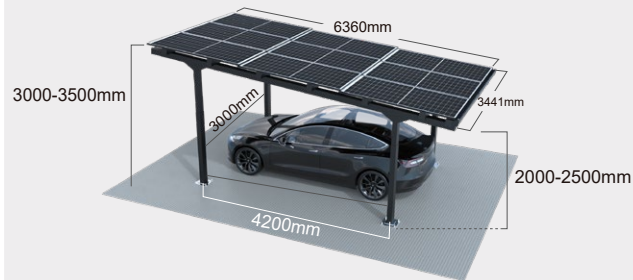
Optional Functions



Motion Sensor Light

Smart Surveillance Camera

Carport Specifications



	Single	Double
Power Output	4.815 kW	8.025 kW
Carport Structure Length	6500 mm	6500 mm
Carport Structure Width	3000 mm	5200 mm
Carport Peak Height	3000-3500 mm	3000-3500 mm
Carport Clearance Height	2000-2500 mm	2000-2500 mm
Solar Panels	Polaris 535W x 9PCS	Polaris 535W x 15PCS
Base	Galvanized carbon steel	
Main Structure	6005-T5 aluminum alloy, powder coating 60-120μm	
Connectors	6005-T5 aluminum alloy with black anodization, powder coating 20μm	

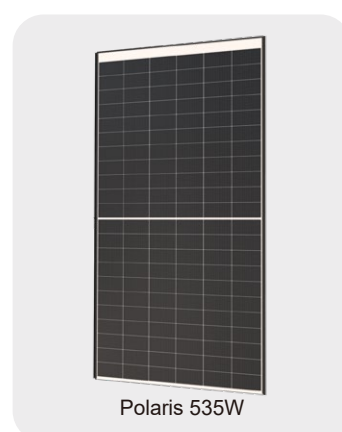
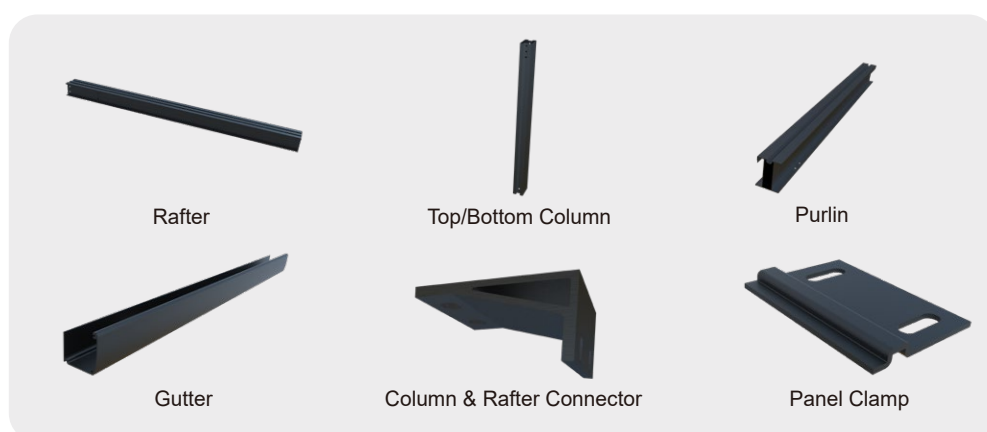
Single Solar Carport Solution



Double Solar Carport Solution



All-In-One Package



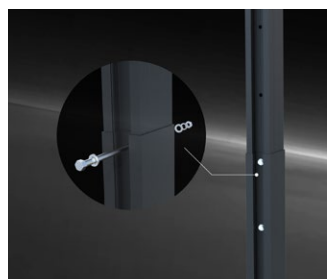
Structure Details



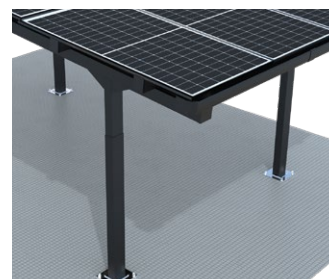
Structurally Waterproof



Clamp Mounting



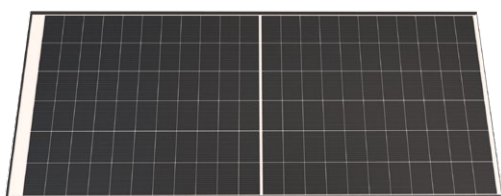
Adjustable Height



Gutter (excluding downpipe)

Waterproof Solar Panels

GoodWe Polaris Series for Solar Carport



Excellent Self-cleaning Ability



Convenient Installation



Structural Waterproofing



Double-glass Design



Rated Class 1 for fire reaction according to UNI 9177.

Panel Data	BMT-P2/132A
Size*	2142 x 1160 x 29.6mm
Weight	30.1±0.5kg
Cable	4 mm ²
Cell Type	N-Type TOPCon Half Cells (132pcs)
Connector Type	MC4-EVO2 (Stäubli)

Electrical Data (STC)	STC:AM=1.5, irradiance 1000W /m ² , component temperature 25° C
Power (W)	535W
Efficiency (%)	21.5%
Power/m ² (W/m ²)	215W/m ²
Voltage at Max Power (Vmpp)	41.47V
Voltage at Open Circuit (Voc)	48.21V
Current at Max Power (Impp)	12.90A
Current at Short Circuit (Isc)	13.60A



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