

CARINA SERIES

Modular Light Steel Residential Solar Carport

Steel Strong

Weather Ready

Value Smart

540 W Polaris

Bifacial Transparent Panel
abZ Test Passed

4.86 / 8.10 kW

Single / Double

15 Years

Product Warranty

Light Steel

Zinc-Al-Mg Coated



Sweet Spot of
Strength, Cost & Durability



Built-In
Waterproof Design



AI-Ready
Module Level Monitoring



Compact for
Shipping & Delivery

Why Carina?

Your car sits in the driveway through summer heat and winter snow. Carina turns that unused space into a power station, sheltering your vehicle while generating clean energy for your home. ZAM light steel construction, high efficiency bifacial panels, and a design built to stand up to whatever the weather brings.



ZAM Light Steel Frame

ZAM

Zinc aluminium magnesium coated light steel. The best balance of strength, cost, and durability. Proven corrosion resistance and structural rigidity for heavy snow and wind loads across diverse climates.

Modular 4 Column Design



Clean, minimal architecture with full length structural members. Modular bolt together assembly, no welding or specialist tools required. Faster installation, fewer parts, and a sleek residential finish.

Polaris Bifacial Transparent Panel



540 W N type TOPCon bifacial double glass for added rigidity and rear side power gain. Flat edge self cleaning frame minimises dust build up. All relevant abZ tests passed.

All-Weather Engineering



Engineered for a range of Australian climate conditions, the Carina steel structure delivers reliable strength and long-term structural performance in demanding outdoor environments.

Logistics Ready Packaging

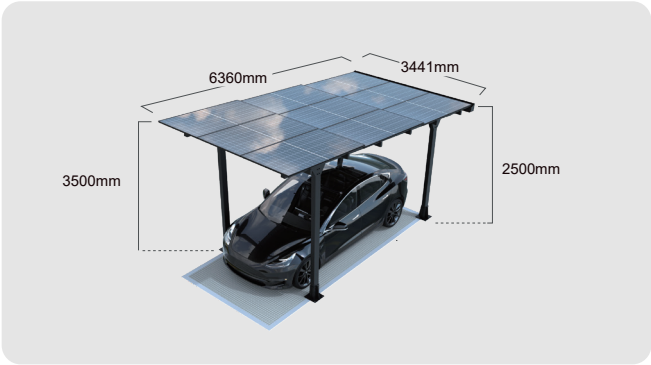
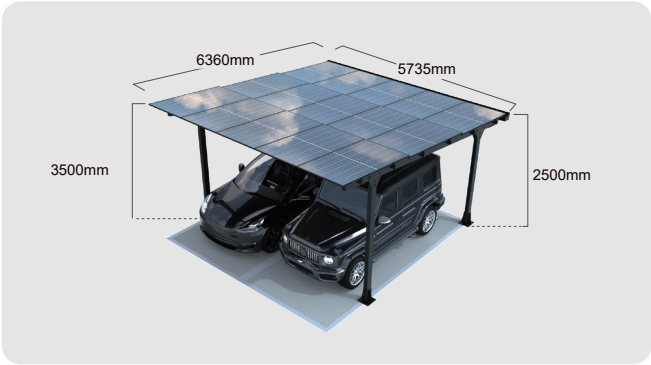


Extended structural members (up to 5.7 m) ship separately from panels, optimised for 20 ft and 40 ft container loading. Structure and panels arrive ready for bolt-only assembly.

15 Year Warranty · Full Ecosystem

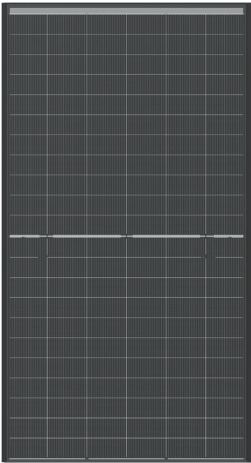


15-year product warranty covering both the structure and solar panels. Designed for flexible integration with residential energy systems, including inverters, battery storage and EV charging solutions.



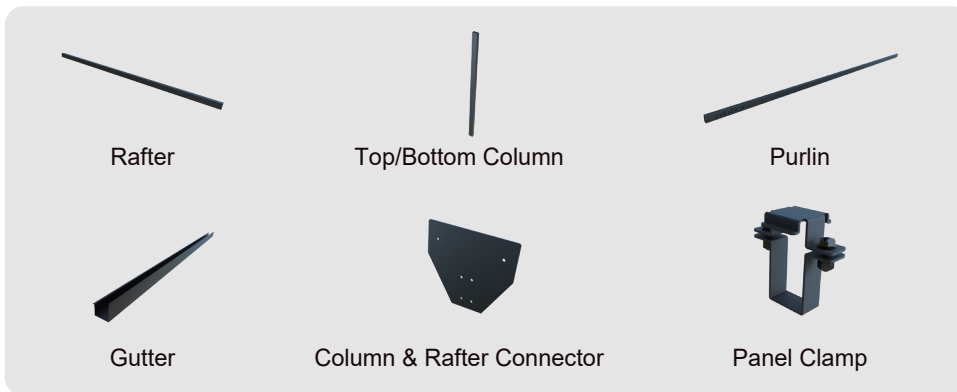
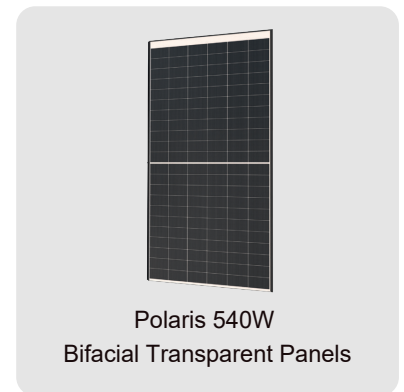
Carport Structure	Single	Double
Power Output	4.86 kW	8.10 kW
Structure Length	6360 mm	6360 mm
Structure Width	3441 mm	5735 mm
Peak Height	3500 mm	3500 mm
Clearance Height	2500 mm	2500 mm
Solar Panels	Polaris 540 W × 9	Polaris 540 W × 15
Base	Galvanised carbon steel	Galvanised carbon steel
Main Structure	ZAM coated light steel	ZAM coated light steel
Connectors	ZAM coated light steel	ZAM coated light steel
Design	Modular 4 Column	Modular 4 Column

Polaris Bifacial Transparent Panel BMT-P2-132A



Physical		Electrical (STC)	
Size	2142 × 1160 × 29.6 mm	Power	540 W
Weight	30 ± 0.5 kg	Efficiency	21.73%
Cable	4 mm²	Power/m²	217 W/m²
Cell Type	N-Type TOPCon (132 pcs)	Vmpp	41.70 V
Fire Rating	Class 1 (UNI 9177)	Voc	48.43 V
Glass	Double-glass	Impp	12.95 A
Frame Design	Flat edge, self cleaning	Isc	13.65 A

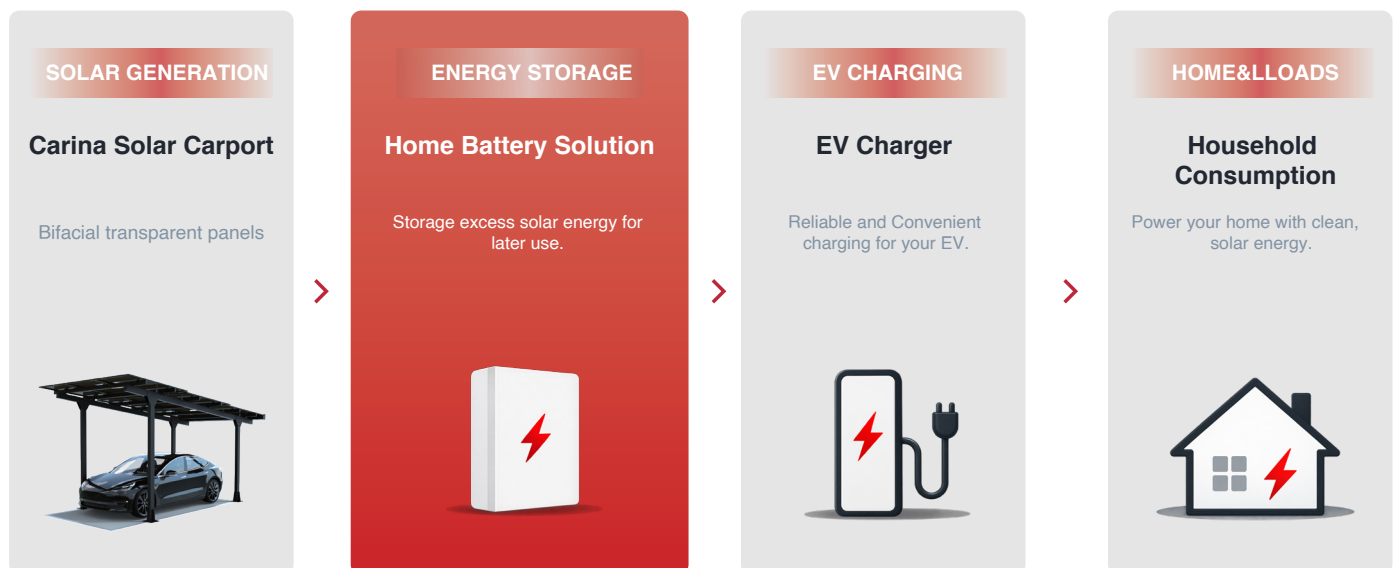
Package Contents



Integrated Solar+Storage+Charging Ecosystem

Generation · Store · Charge · Use

Carina is the starting point of a complete home energy ecosystem. From solar generation and energy storage to EV charging and household use, all components work together for a cleaner, more independent home.



Wide Compatibility

Supports a range of inverters, batteries and EV chargers.



One System, One Partner

Integrated solution for a simpler, more reliable home energy setup.



Cleaner, Lower Energy Costs

Make the most of solar energy and reduce reliance on the grid.

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