

ORION CARPORT

SKU: 501-Sol-3p
Orion Solar Design 4kW

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Orion Total Autonomy

6500 kWh Annual

Covers home plus EV charging

5kW Hybrid Power

Seamless solar/battery/grid
switching

16 kWh Storage

True capacity LFP battery option

Permit-Free Install

Under 20m², no permit required

Bifacial Gain

+25% from ground reflection

Basic specifications

Length: 5.28 meters

Width: 3.56 meters

Height: 2.2 to 2.7 meters

Inclination: 34 degrees

Max drive through height: 2 m

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IV. ORION Total Autonomy Carport

Transform your driveway into an elegant, permit-free solar powerhouse—our sleek all-black 4.1 kWp carport generates 6,500 kWh/year for home and EV with 30-year reliable performance.



Smart Charging: Intermittent technology protects lithium cells from long-term degradation

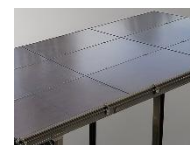
Fast Switching: 5kW hybrid inverter switches in 10ms for uninterrupted sensitive devices

High Output: Produces up to 6,500 kWh/year for home and electric vehicle

Smart Monitoring: Real-time smartphone interface provides intelligent system management

Silent Operation: Fan-less battery design runs whisper-quiet in residential areas

- **Permit-Free:** Installs under 20m² without building permits for fast, hassle-free setup
- **TOPCon Efficiency:** N-Type cells deliver +2% efficiency with zero light-induced degradation
- **Bifacial Boost:** Captures reflected light for +25% additional energy production from ground
- **Shade Resilient:** Half-cut cells maintain +3% yield even when partially shaded
- **Weatherproof:** Double glass panels withstand 2400 Pa wind and 5400 Pa snow loads
- **30-Year Warranty:** Extended coverage ensures three decades of reliable panel performance
- **4.1 kWp Power:** Nine high-tech panels produce robust nominal power output daily
- **True Capacity:** 16 kWh LFP battery delivers full usable energy without underestimation
- **Elegant Design:** Full black panels enhance property aesthetics with architectural sophistication



RELATED PRODUCTS

I. Solar Panel 455 W

II. Inverter Off-Grid Hybrid 5kW

III. LFP Battery 16kW