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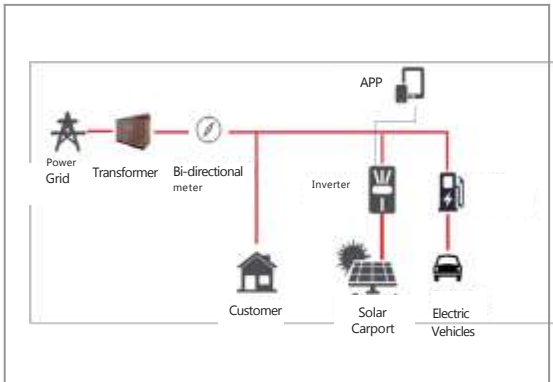
Solar Carport Solution

Introduction



The roof of the carport adopts the integrated structure of solar building, which is a perfect combination of solar power generation and the carport. While realizing all functions of the traditional carport, PHEILIX brings stable green power generation benefits to the owners, which is of great practical significance for the optimization and upgrading of the energy structure, the realization of carbon emission reduction and the transformation and development of clean energy.

Working Principle



During the day, the solar panels installed on the roof of the carport use the photovoltaic effect to convert the solar energy directly into DC current, and convert the DC current into AC current through the inverter. The electricity generated can be used directly for the load. It can also be fed to the grid and stored by the energy storage battery for load at night.

The entire system can not only achieve spontaneous self-use but also offer customers certain economic benefits

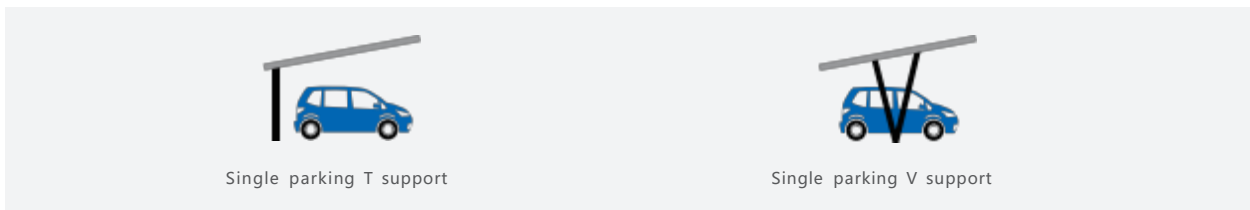
— PHEILIX can provide customized solutions according to different customer needs.

Types Of Solar Carports:

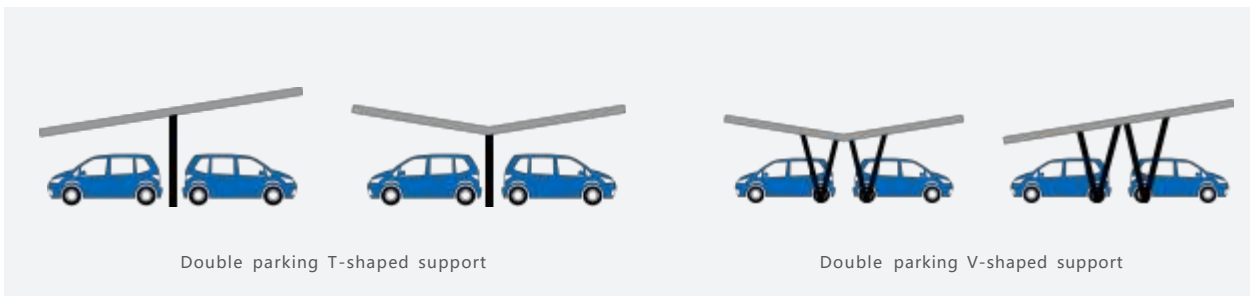
Parking lot solar system adopts modular design. They can be used individually or in multiple combinations.

— PHEILIX can provide waterproof and non-waterproof solutions, and can be customized according to customer needs.

■ Single carport



■ Double carport



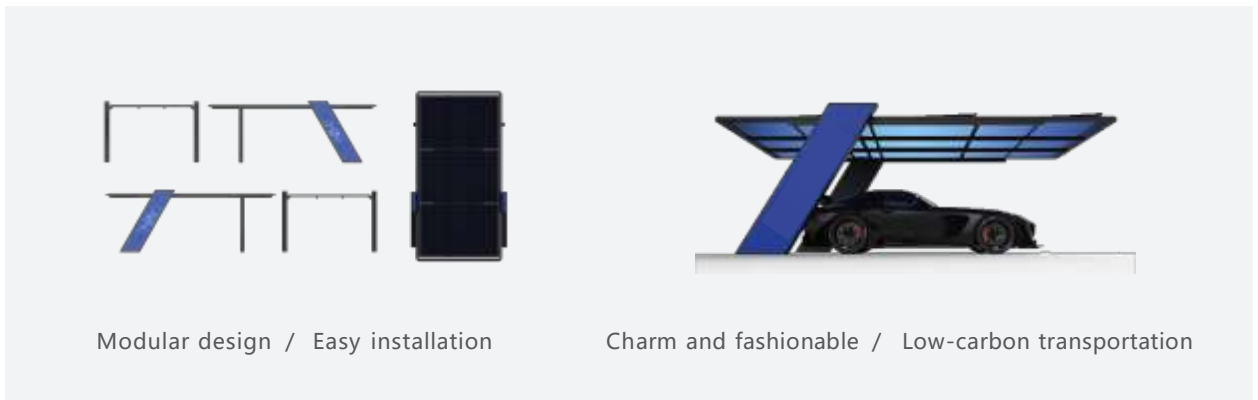
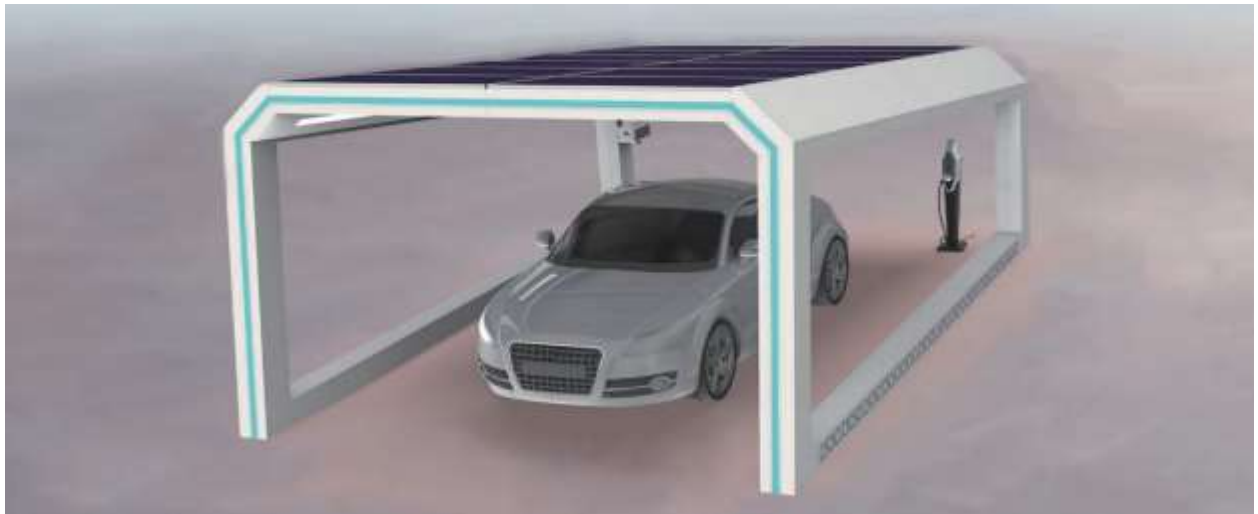
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SOLAR CARPORT SOLUTION

System Solution

Household Solar Carport Solution

The integrated solution of PHEILIX solar system & charging pile can store the electric energy of solar system in the battery. The solar system, energy storage and charging facilities constitute a microgrid, which can intelligently interact with the public grid according to demand, and can realize two different operation modes of grid-connected and off-grid



Technical Highlights:

- 10 years of guarantee, 25 years of service life.
- Hot-dip galvanizing surface treatment ensure ,high corrosion resistance.
- Firm and waterproof, excellent parking experience in inclement weather.
- The system was strictly tested for safety by mechanics calculation and simulation software.
- Quick installation, wide application range

Application Scenarios

- 📍 Expressway service area
- 🏢 Schools, factories, government agencies
- 🌳 Scenic spot, park parking lot
- 🛒 Large supermarket, furniture market
- 🏠 Household parking space