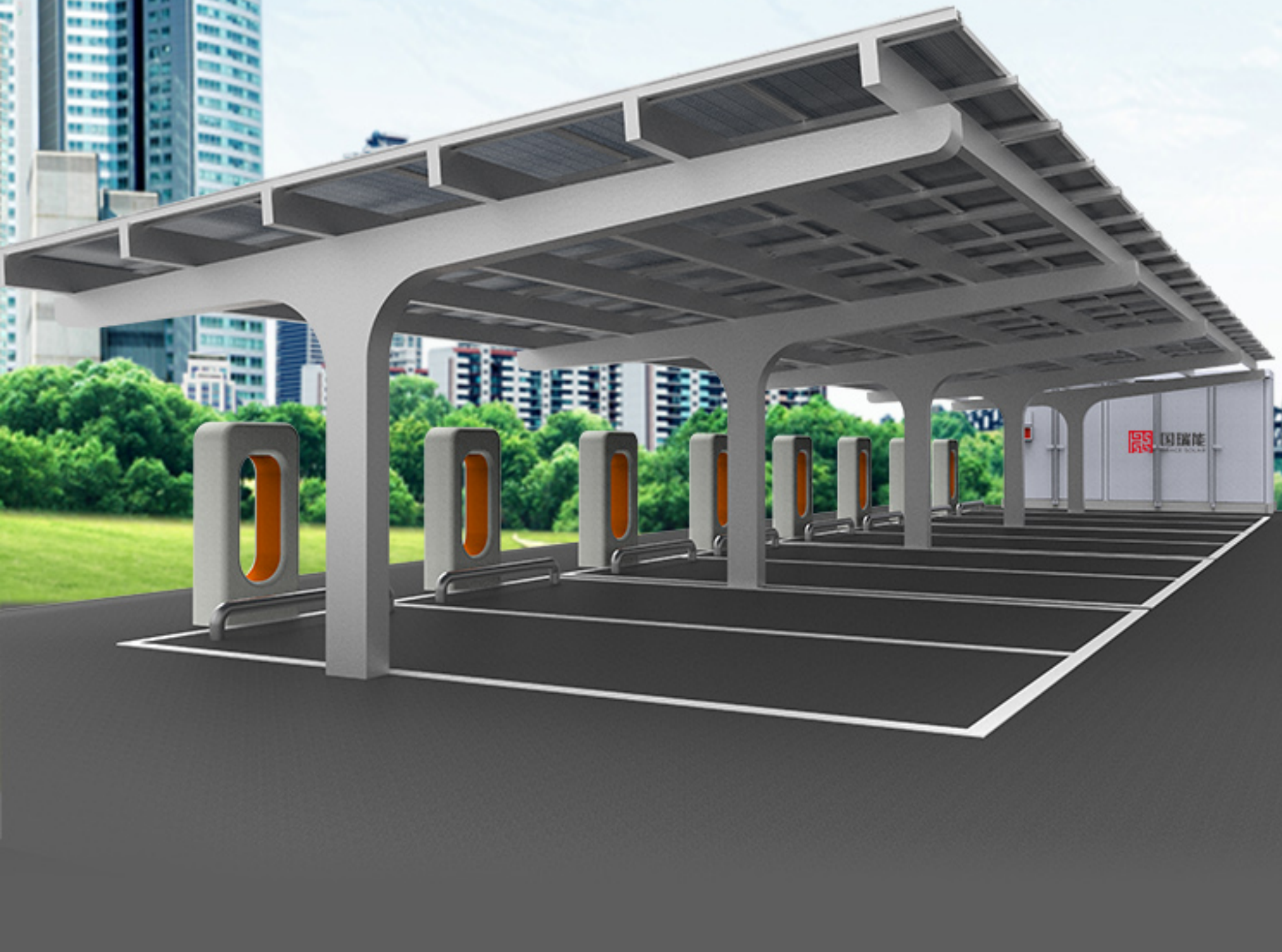


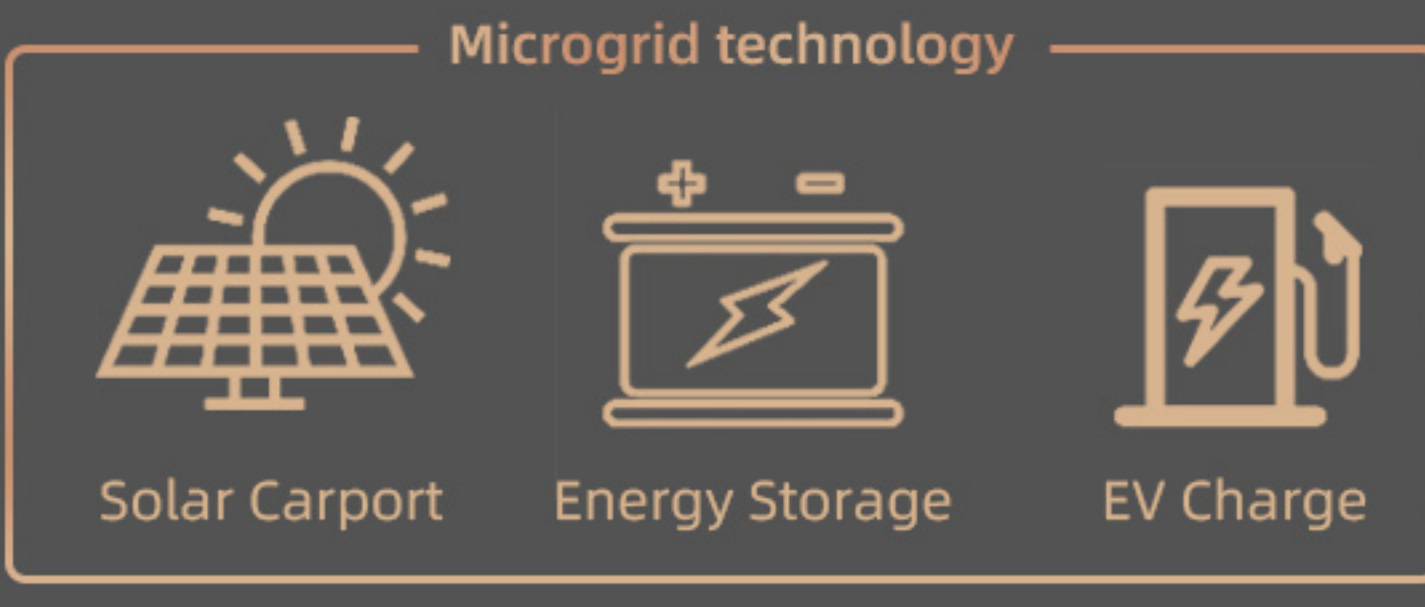
STORAGE AND CHARGING INTEGRATED PV CARPORT

Let nature's gifts be used efficiently
Helping green travel and building a low-carbon lifestyle



GS- Storage and Charging Integrated PV Carport

Microgrid technology



Solar Carport

Energy Storage

EV Charge

Can be connected to the grid or run independently

High efficiency with green power, noise-free, pollution-free, sustainable. Solve the demand contradiction of electricity producer, users and grid.

On-Grid Mode

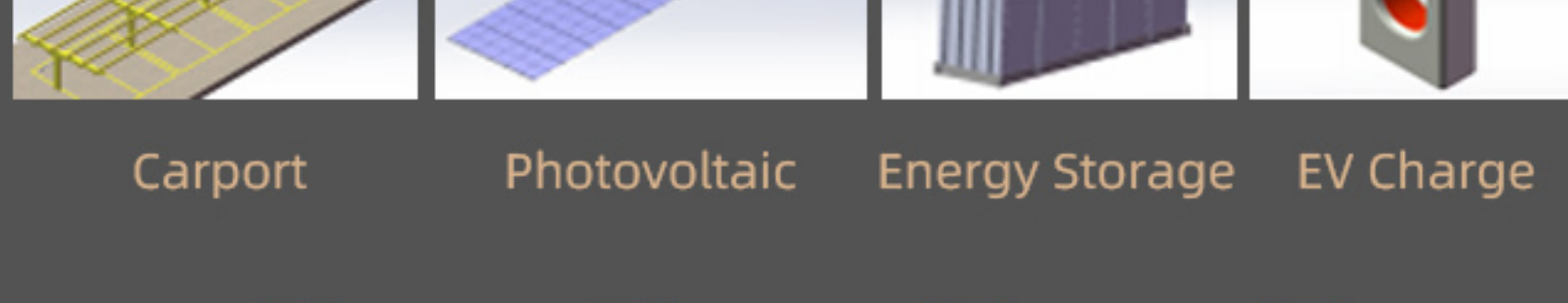
During the day, photovoltaics first charge EVs; the remaining power is for energy storage charging. After the energy storage is full, the remaining power will go on grid. At night or in rainy days, the energy storage system and the grid jointly supply power to charge EVs.

Off-Grid Mode

When the mains power fails, the system automatically switches to off-grid mode.

When the load power < the photovoltaic power, the photovoltaic power supply for the load
When load power > photovoltaic power, photovoltaic and energy storage together supply power to the load

Four Solutions, customized on demand



Carport

Photovoltaic

Energy Storage

EV Charge

A

PV Carport

B

PV Carport
+Energy Storage

C

PV Carport
+EV Charge

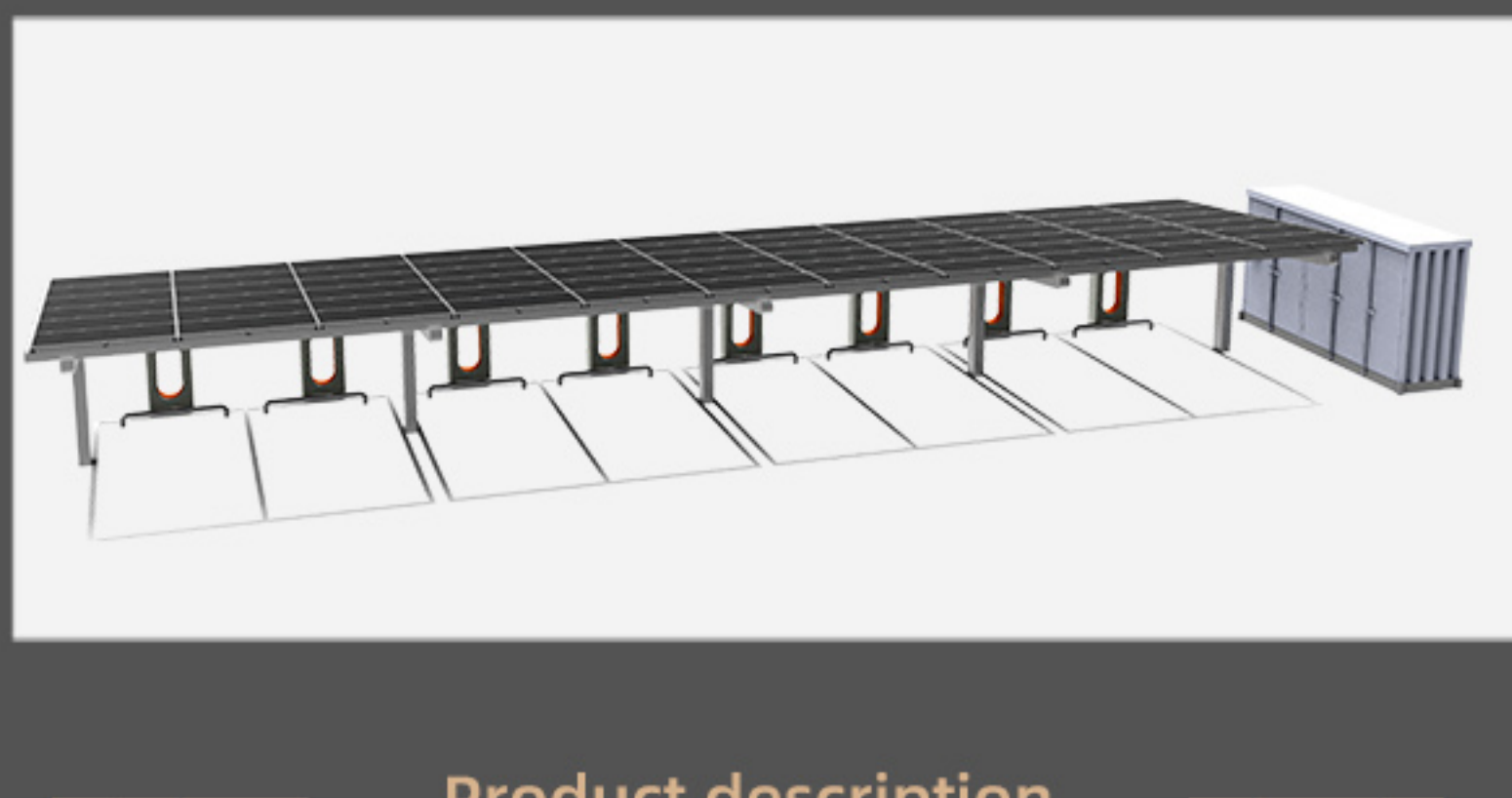
D

PV Carport
+Energy Storage
+EV Charge

Feature

- ✓ Better waterproof and heat insulation performance
- ✓ Spontaneous self-use of photovoltaic power generation
- ✓ Flexible electricity storage and continuous electricity use
- ✓ Automatically switch between on-grid and off-grid mode. Incomes from peak-to-valley price difference.
- ✓ Power failure emergency backup
- ✓ Long-term sustained income

BIPV Carport



Product description

BIPV photovoltaic carport is a new generation carport product developed by Grace Solar with its R&D advantages. 100% structural waterproof design, layer by layer to solve the problem of water seepage. Compared with traditional photovoltaic carports, it has significant advantages in terms of weather resistance, durability, aesthetics and energy saving. It can bring longer-term economic and environmental benefits to your photovoltaic carport.

Feature

Beautiful outlook

PV modules replace the membrane structure steel roof of the traditional carport, adding a beautiful scenery.

Versatility

Prevent the car from being exposed to the sun and rain, provide green power for new energy vehicles to charge, and provide electricity for enterprises, etc.

Green and low-carbon

Use high-rise solar energy, no emissions, no noise, no pollution, green and environmentally friendly

Cost-effective

Spontaneously use surplus electricity to surf the Internet, long-term use is cost-effective

Long-term benefits

The photovoltaic carport system will continue to generate electricity for 25 years. After the cost is recovered, you can enjoy the pure revenue of the PV carport

Storage System

3 in 1
Intelligent management, real-time monitoring, high security, rapid response

Energy Management System

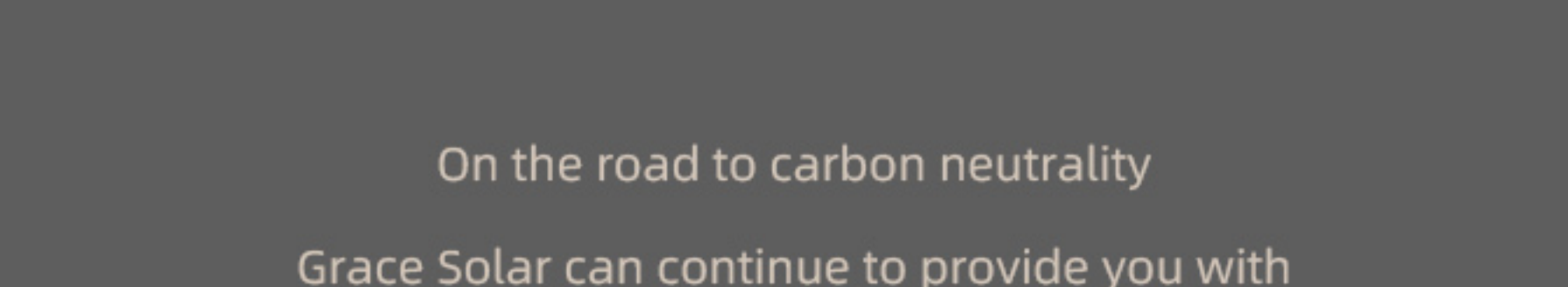
Power Conversion System

Battery Management System

Charging Pile



Application Scenario



Industrial parks

Business districts

Hospitals

Schools etc

On the road to carbon neutrality

Grace Solar can continue to provide you with more efficient, more convenient and more diverse photovoltaic mounting system solutions

Provide beneficial support for your "zero carbon" plan

Provide beneficial support for your "zero carbon" plan