



SOLAR CARPORT MOUNTING SYSTEM

The solar carport mounting system is an integrated ground-based solution that combines photovoltaic power generation with parking infrastructure, built with durable ZAM/HDG steel components and customizable to various parking lot layouts.

It turns parking areas into clean energy assets while sheltering vehicles from harsh weather, and suits commercial, industrial, residential and EV charging applications for dual benefits of space efficiency and sustainable energy production.

ADVANTAGE

- **Space-efficient**
Dual-use parking-energy setup, zero extra space needed
- **All-in-one Solution**
Integrated PV modules, structure, and inverter, etc
- **Sturdy & Durable**
ZAM/HDG steel build, weather-resistant
- **Highly Customizable**
Fits any parking layout, adjustable angles & orientations
- **Flexible Energy Management**
Stable output, ideal for on-use, storage & EV charging
- **Cost-effective & Reliable**
Low-maintenance, cuts separate infrastructure costs

CONFIGURATION

Our solar carport system features hybrid, grid-tied and off-grid connectivity options, and we supply a integral system to meet all project requirements.



Structure



Solar Panels



Inverters

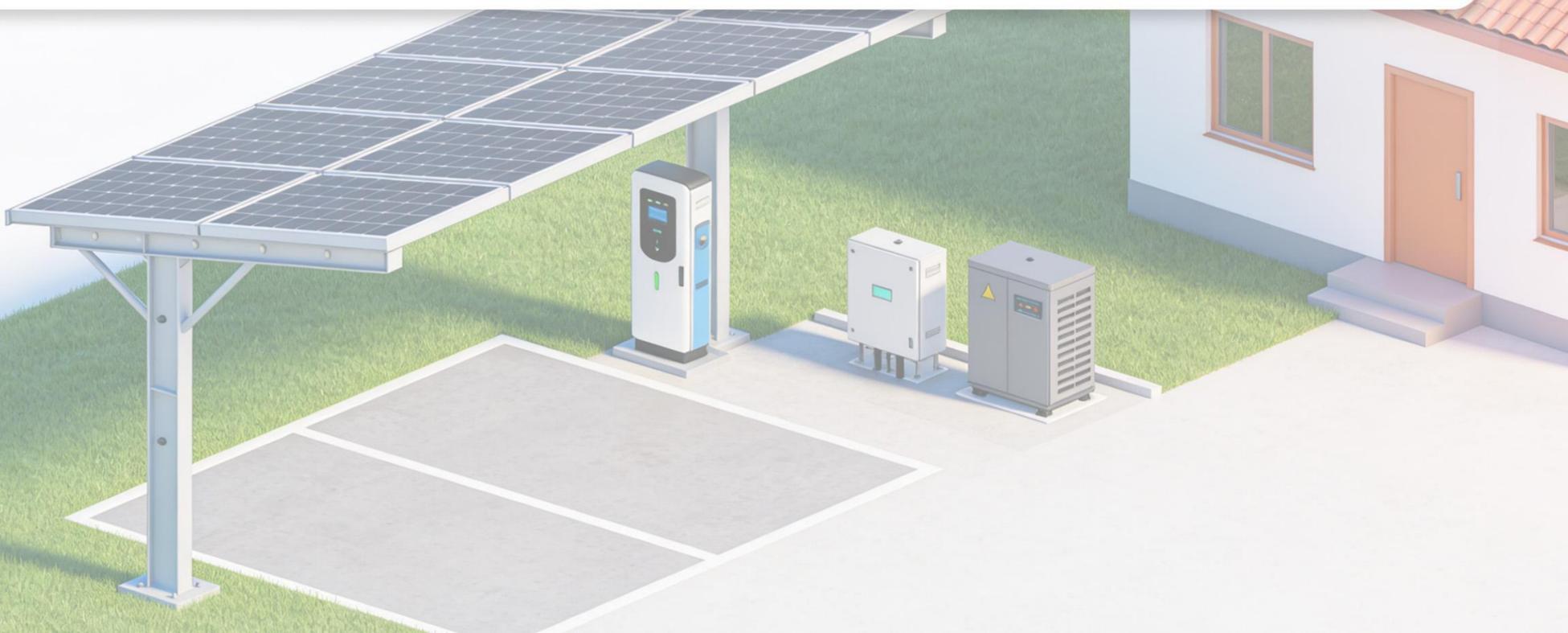
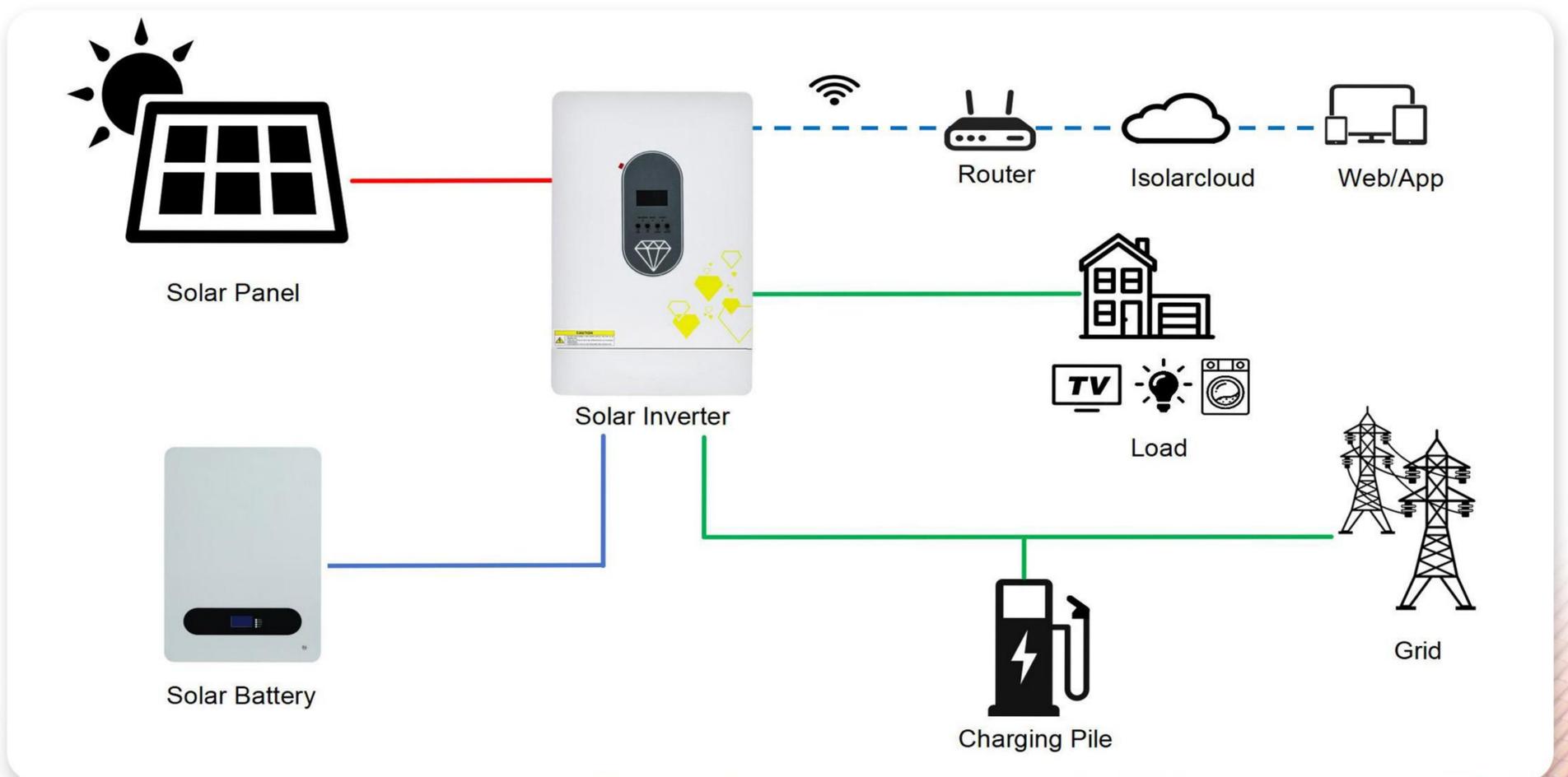


Battery
(optional)

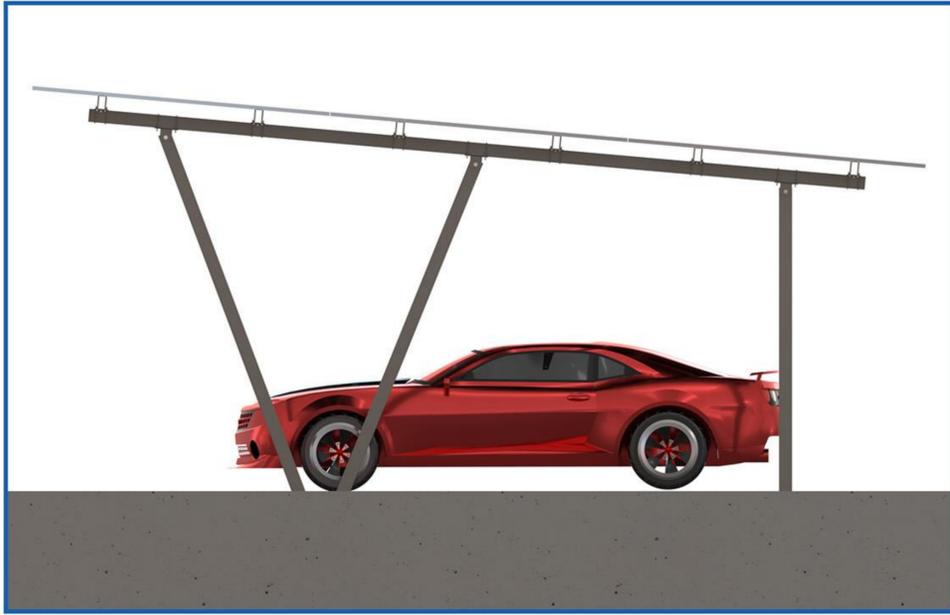


Cables & Connectors

WORKFLOW



V-TYPE SOLAR CARPORT(THREE-COLUMN)



ITEM	2-Parking-Space
Snow Load	Up to 1.4KN/ m ²
Wind Load	Up to 40m/s
Panel Layout	Vertical
Solar Panel Power	590W-620W
Number of Modules	15PCS
Inverter	10KW
Adjustable Tilt Angle	5-10 degrees
Structure Material	ZAM&HDG Steel



Purline



Column



U Bolt



PV Tape



Fixing Plate



PV Clamp



Connector



Fastener

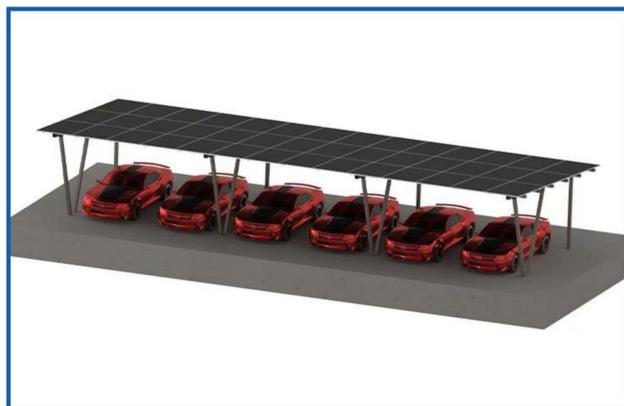


Base Plate



Base Plate

Multi-Parking Space Installation



W-TYPE SOLAR CARPORT(FOUR-COLUMN)



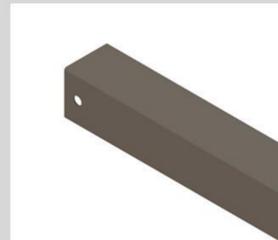
ITEM	2-Parking-Space
Snow Load	Up to 1.4KN/ m ²
Wind Load	Up to 40m/s
Panel Layout	Vertical
Solar Panel Power	590W-620W
Number of Modules	15PCS
Inverter	10KW
Adjustable Tilt Angle	5-10 degrees
Structure Material	ZAM&HDG Steel



Purline



Column



Column



PV Tape



Fixing Plate



PV Clamp



Connector



Fastener

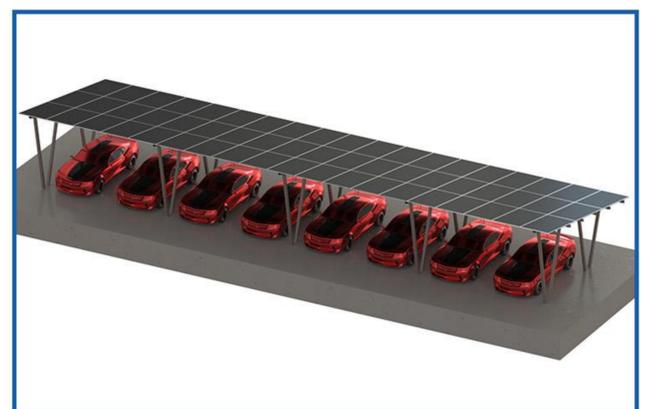
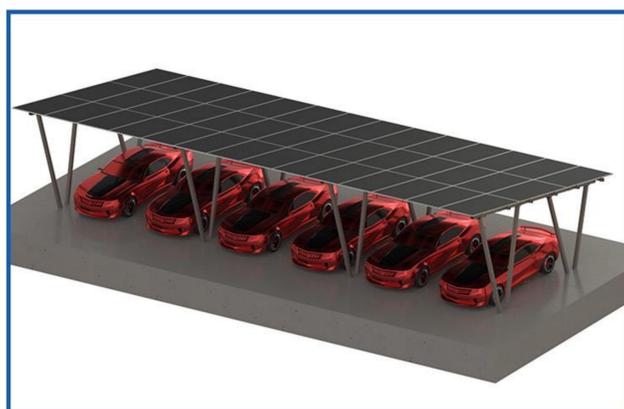


Base Plate

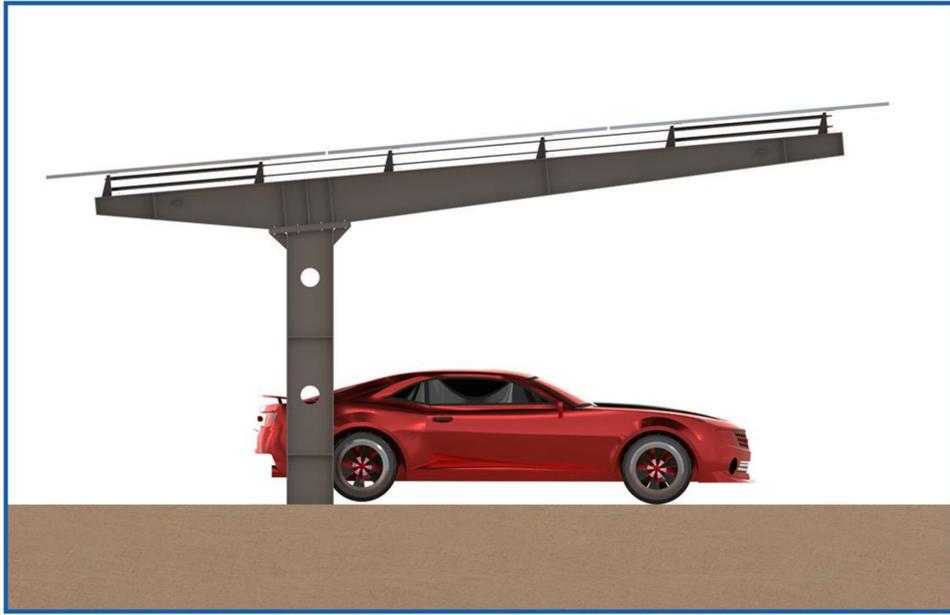


Base Plate

Multi-Parking Space Installation



SINGLE-SIDED SINGLE COLUMN SOLAR CARPORT



ITEM	2-Parking-Space
Snow Load	Up to 1.4KN/ m ²
Wind Load	Up to 40m/s
Panel Layout	Vertical
Solar Panel Power	590W-620W
Number of Modules	15PCS
Inverter	10KW
Adjustable Tilt Angle	5-10 degrees
Structure Material	HDG Steel



Purline



Welded Longitudinal Beam



Welded Column



PV Tape



Tie Rod Sleeve



Diagonal Bracing



Tie Rod



Backing Plate

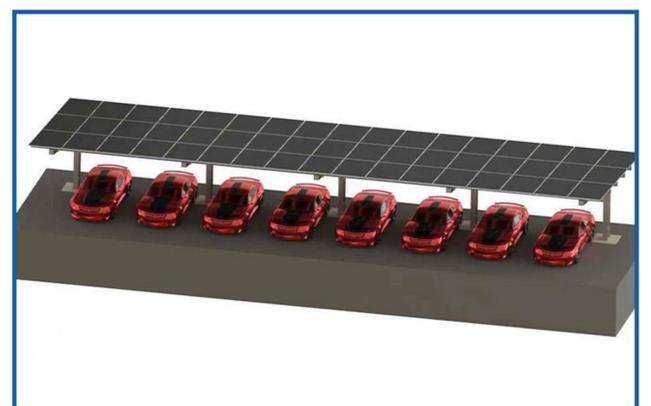
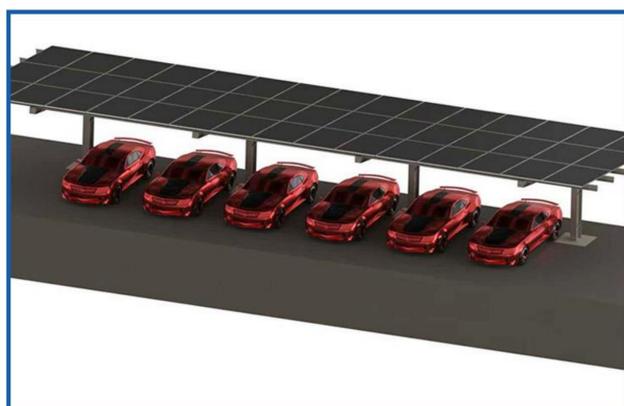


Nut



Fastener

Multi-Parking Space Installation



DOUBLE-ROW SOLAR CARPORT MOUNTING SYSTEM



ITEM	4-Parking-Space
Snow Load	Up to 1.4KN/ m ²
Wind Load	Up to 40m/s
Panel Layout	Vertical
Solar Panel Power	590W-620W
Number of Modules	30PCS
Inverter	20KW
Adjustable Tilt Angle	5-10 degrees
Structure Material	HDG Steel



Diagonal Brace



Welded Longitudinal Beam



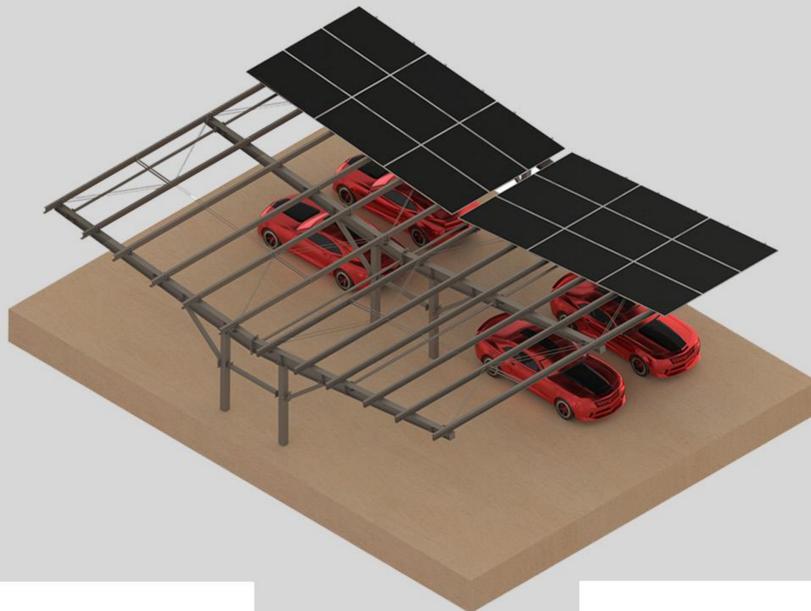
Welded Column



PV Tape



Cross Tie Rod



Tie Rod



Purlin



Backing Plate



Nut



Fastener

Multi-Parking Space Installation

