Complete Solar Mounting
All-in-One Solution
for Design & Production



PRODUCT CATALOGUE

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ABOUT US

COMPANY PROFILE

Jiaxing Haina Solar Technology Co., Ltd. was founded in 2023. Since its establishment, we have been committed to becoming a professional and reliable supplier of solar carport mounting systems, dedicated to providing high-quality, safe and efficient photovoltaic support solutions for global customers and contributing to clean energy popularization and carbon neutrality.

Our core business focuses on the R&D, production and sales of solar carport mounting. We hold the EN1090 CE photovoltaic mounting certification (a mandatory access for the European market) and ISO9001 quality management system certification, ensuring our products meet strict EU standards and standardized quality control throughout the production process.

Main Product

- SOLAR BALCONY MOUNTING SYSTEM
- SOLAR ROOF MOUNTING SYSTEM
- SOLAR CARPORT MOUNTING SYSTEM
- SOLAR GROUND MOUNTING SYSTEM

Solar Balcony Mount



Product Overview



- **Essence:** Integrated plug-and-play home solar system
- **Core components:** Balcony bracket, micro-inverter, solar panels, accessories
- **Advantages:** Flexible, applicable to most balconies, and can be used on balconies, floors and walls

Our solar balcony mount equipped with this single-panel mounting requires connection to the mains electricity (the national power grid).

System Components



Bracket



Solar Panel



Microinverter



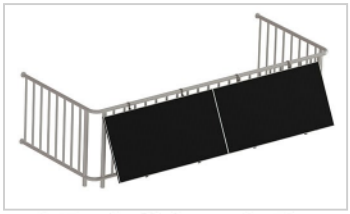
Cables & Connectors

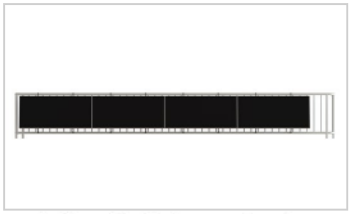


Solar Fasteners

Common Applications

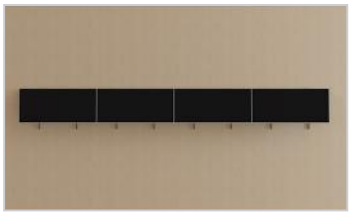

1 Panel Balcony System

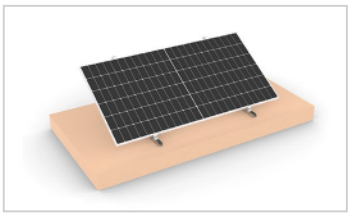

2 Panels Balcony System

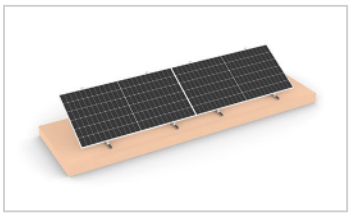

4 Panels Balcony System

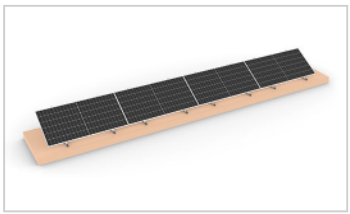

1 Panel Wall System


2 Panels Wall System


4 Panels Wall System


1 Panel Flat System


2 Panels Flat System


4 Panels Flat System

Specification

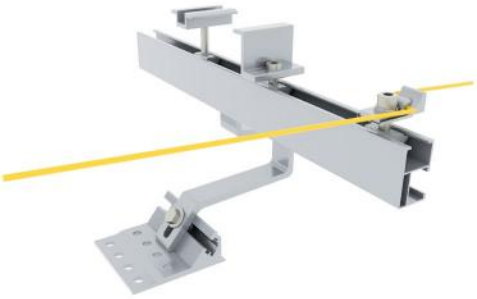
ITEM	1-Panel System	2-Panel System	4-Panel System
Installation Typc		Balcony / Wall / Fat	
Solar Panel Power	620W	450W*2	620W*4
Array Mode		Horizontal	
Power of Micro-inverter	500W	800W	2000W
Rated Output Voltage		220V-240V/50Hz	
Material of Bracket		ZAM Steel + Spray	
Tilt Angle		0-30 degrees	
8-Hour Total Power Output	3.47~4.46kWh	5.04~6.48kWh	13.89~17.86kWh

SOLAR TILE ROOF MOUNTING SYSTEM



- **Essence:** Specially designed for tile roofs
- **Installation:**Uses various hooks to fix to roof beams without damaging tiles
- **Advantages:** Stable installation & excellent waterproofing

Aluminun Hook Structure




Hook Kits


Aluminum Rail


Screw


Mid Clamp Kits


End Clamp Kits


Grounding Lug Kits

Stainless Steel Hook Structure




Hook Kits


Aluminum Rail


Screw


Mid Clamp Kits


End Clamp Kits


Grounding Lug Kits

Solar Roof Hooks

HAINA has many types of tile roof hooks, suitable for most roof types of tile, slate tile, asphalt shingle tile, etc.















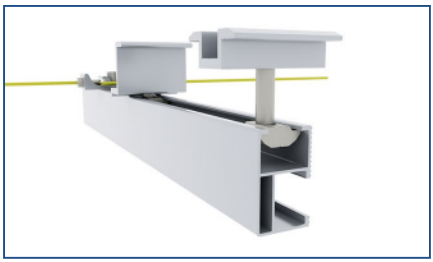


Solar Clamps

We mainly use two types of mid/end clamps: the quick-clip type and the slider type.





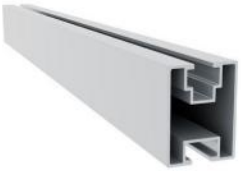
SOLAR METAL ROOF MOUNTING SYSTEM

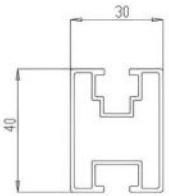


- **Essence:** Suitable for metal roofs (corrugated steel,trapezoidal tiles)
- **Installation:** Directly fixed with clamps or self-tapping screws
- **Advantages:** Quick installation &strong load-bearing capacity

Solar Rails

Our solar mounting system features different rail profiles, designed to accommodate various roof types and load conditions.

















Solar Clamps

HAINA offer many roof clamps to fit different standing-seam metal roof profiles.











L Feet with Hanger Bolt




Aluminum Rail


Hanger Bolt Kits


L Feet Kits

L Feet with Screw




Mid Clamp Kits


End Clamp Kits


Grounding Lug Kits

Plate with Hanger Bolt




Aluminum Rail


Hanger Bolt Kits


Solar Clamp Kits

Trapezoid Clamp with Rail




Mid Clamp Kits


End Clamp Kits


Grounding Lug Kits

Aluminum Rail with Screw




Aluminum Rail


Aluminum Rail


Bi Metal Screw

Aluminum Rail with Screw




Mid Clamp Kits

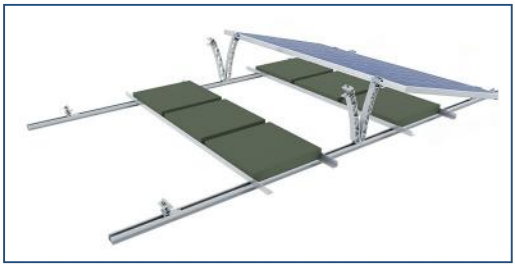

End Clamp Kits


Grounding Lug Kits

SOLAR FLAT ROOF MOUNTING SYSTEM



- **Essence:** Specially designed for flat roofs
- **Installation:** Adopts ballast or adjustable bracket structure, no roof penetration
- **Advantages:** Stable,waterproof,flexible angle adjustment



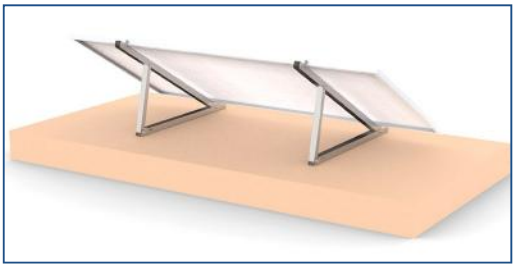
HSFLATROOF001



HSFLATROOF002



HSFLATROOF003



HSFLATROOF004



HSFLATROOF005



HSFLATROOF006

System 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



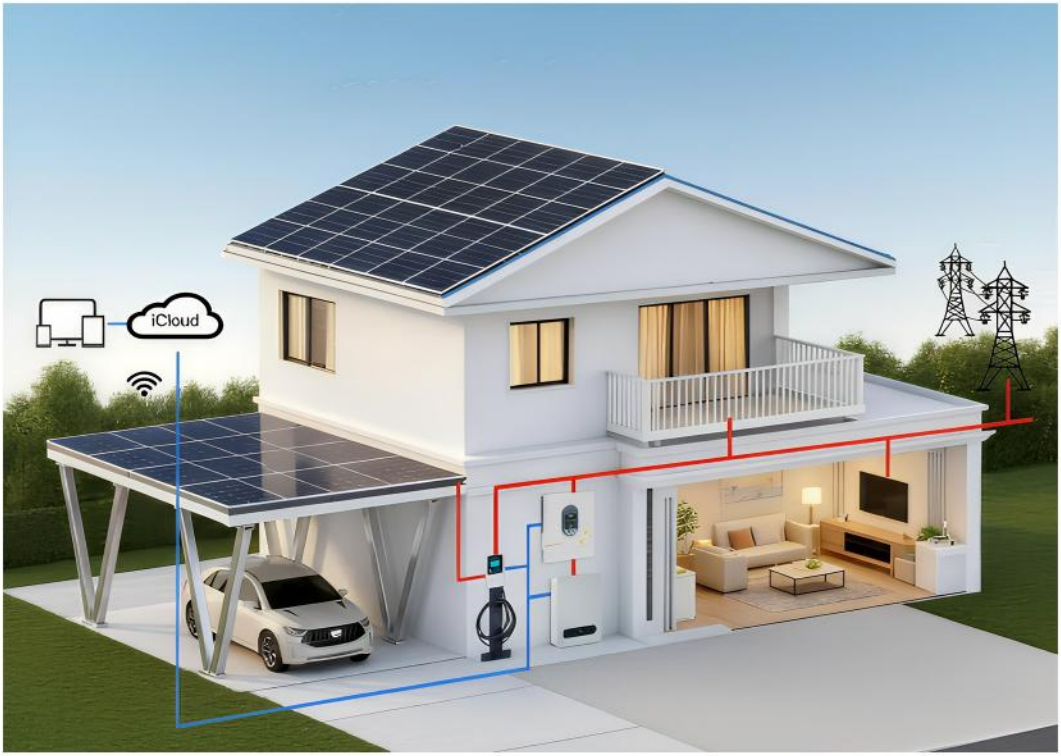
Battery



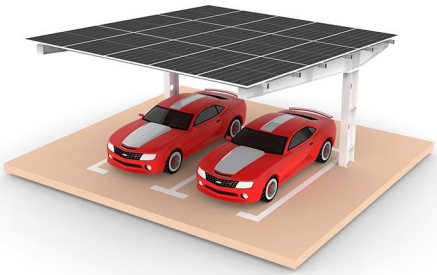
Cables & Connectors

Working Principle

The solar PV carport captures sunlight and converts it into green electricity to power the home and charge the electric vehicle.

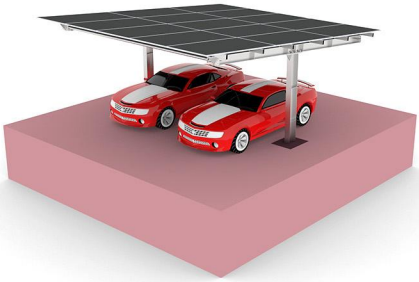


I Type Solar Carport Mount



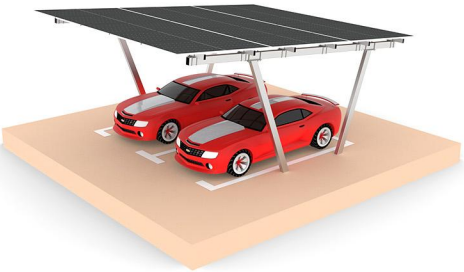
- ITEM: 2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 15PCS
- Tilt Angle: 5 degrees
- Structure Material: S355B(HDG/Surface
- Spraying)
- Dimension: 5.9*6.8m
- Advantage: Space-saving perfect for parking lots/EV charging stations

T Type Solar Carport Mount



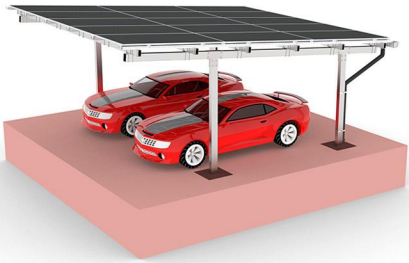
- ITEM: 2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 15PCS
- Tilt Angle: 5 degrees
- Structure Material: S355B
- Dimension: 5.9*6.8m
- Advantage: High space utilization for commercial and industrial parking projects

V Type Solar Carport Mount



- ITEM: 2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 15PCS
- Tilt Angle: 5 degrees
- Structure Material: ZAM Steel
- Dimension: 5.9*6.8m
- Advantage: Multi-functional ideal for industrial & commercial parks

II Type Solar Carport Mount



- ITEM: 2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 15PCS
- Tilt Angle: 5 degrees
- Structure Material: ZAM Steel
- Dimension: 5.9*6.8m
- Advantage: High structural stability, excellent wind & snow resistance

N Type Solar Carport Mount



- ITEM: 2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 15PCS
- Tilt Angle: 5 degrees
- Structure Material: ZAM Steel
- Dimension: 5.9*6.8m
- Advantage: Stable and cost-efficient solution for medium to large parking areas.

W Type Solar Carport Mount



- ITEM: 2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 15PCS
- Tilt Angle: 5 degrees
- Structure Material: ZAM Steel
- Dimension: 5.9*6.8m
- Advantage: High-strength W structure ideal for large-scale projects.

Y Type Solar Carport Mount



- ITEM: 2*2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 30PCS
- Tilt Angle: 5 degrees
- Structure Material: S355B(HDG/Surface Spraying)
- Dimension: 5.9*13.8m
- Advantage: High-performance suitable for industrial & residential communities

VV Type Solar Carport Mount

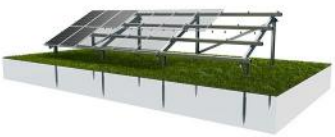


- ITEM: 2*2-Parking-Space Solar Carport
- Panel Layout: Vertical
- Solar Panel Power: 590W~620W
- Number of Modules: 30PCS
- Tilt Angle: 5 degrees
- Structure Material: ZAM Steel
- Dimension: 5.9*13.8m
- Advantage: Easy installation suitable for commercial buildings/factory parking lots

Foundation Options

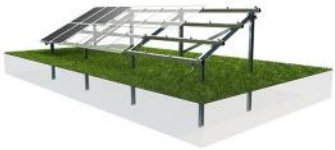
Ground Screw Foundation

Suitable for most soil conditions
Fast installation, no concrete



C-Channel Foundation

Stable soil conditions
Cost-efficient large projects



Concrete Foundation

Suitable for rocky or special soil
High-load requirements



Structure Options

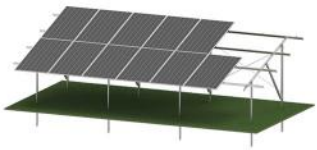
Single-Post Structure

Small layouts
Residential & small commercial



Dual-Post Structure

Medium layouts
Commercial & industrial projects



Multi-Post Structure

Large layouts
Utility-scale projects



Post Design Options

W Type

Medium layouts
Enhanced structural stability



N Type

Sloped or uneven terrain, Additional lateral support



A Type

High wind areas
High-strength requirements



Y Type

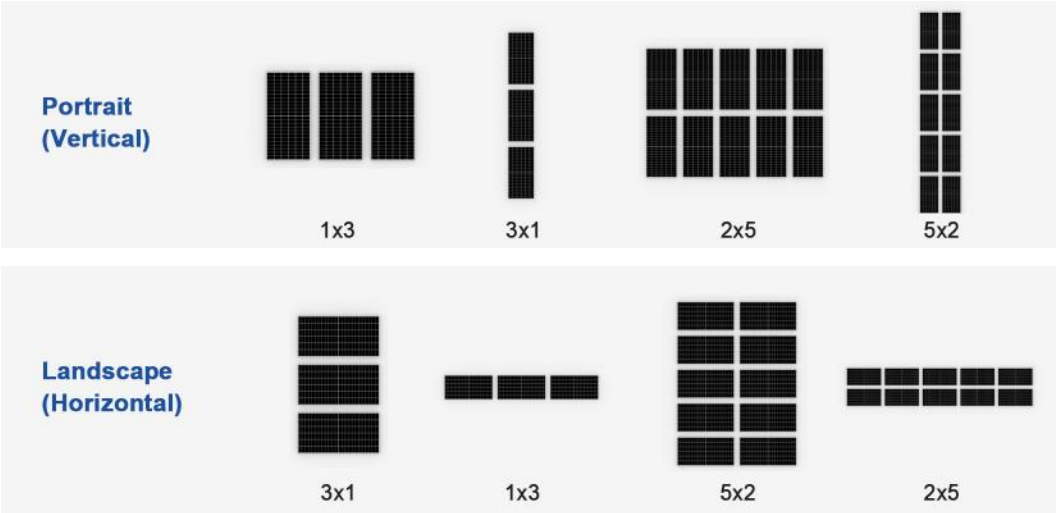
Large-span, high-load systems
Utility-scale projects



With flexible foundation, structure, and post options, our ground mounting systems can be configured in multiple ways to match different PV layouts and application scenarios.

PV Module Layout Overview

PV module layout refers to how solar panels are arranged on a mounting structure, defined by module orientation and the number of rows and columns. Different layouts lead to different structural designs and system configurations.



Ground Screw Ground Mounting



- Layout: Portrait 2x6
- Foundation: Ground Screw
- Structure: Dual-post
- Post: A-Type
- Structure Material: ZAM/HDG Steel
- Tilt Angle: 5-60 degrees
- Feature: Soft soil, farmland, grassland and open fields

C-Channel Ground Mount System



- Layout: Portrait 2x7
- Foundation: C Channel Steel
- Structure: Dual-post
- Post: A-Type
- Structure Material: ZAM/HDG Steel
- Tilt Angle: 5-60 degrees
- Feature: Cost-effective solution for large projects

Concrete Foundation Ground Mount



- Layout: Portrait 2x7
- Foundation: Concrete
- Structure: Dual-post
- Post: A-Type
- Structure Material: ZAM/HDG Steel
- Tilt Angle: 5-60 degrees
- Feature: For hard soil or rocky sites and cost-effective

Single-Post Ground Mount System



- Layout: Portrait 2x6
- Foundation: Channel Steel
- Structure: Single-post
- Post: Y-Type
- Structure Material: ZAM/HDG Steel
- Tilt Angle: 5-60 degrees
- Feature: Small-scale solar projects, uneven or sloped land

Multi-Post Ground Mount System



- Layout: Portrait 3x8
- Foundation: Ground Screw
- Structure: Multi-Post
- Post: A-Type
- Structure Material: ZAM/HDG Steel
- Tilt Angle: 5-60 degrees
- Feature: Medium / large-scale projects, suitable for larger arrays

Vertical Ground Mounting



- Layout: Landscape (single-row / double-row)
- Foundation: U Channel Steel
- Structure: Vertical Post
- Structure Material: ZAM/HDG Steel
- Tilt Angle: 90 Degrees
- Feature: Agrivoltaic & fencing use, space-saving design

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