YIJIA SOLAR

Photovoltaic Stand

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BEIJING YJ SOLAR ENERGY CO.,LTD

PRODUCT BROCHURE

Photovoltaic bracket product introduction brochure

PRODUCTION OF PHOTOVOLTAIC SUPPORT MANUFACTURERS

BEIJING YIJIA

Aoqiang was established in 2012 in Yongnian City, Hebei Province, China. After two years of starting the aluminum and steel business The group chairman established his own factory to produce seismic brackets, photovoltaic bracket systems and stainless steel screws.

Aoqiang Group was established in 2017, today Aoqiang is the top supplier of various support systems in China

In 2021, we moved the factory and warehouse together into a 40,000 m new workshop to increase our productivity. In 2022, our production capacity reached 10,000 tons per month, and the total installed photovoltaic power capacity we supplied to our customers reached 5GW in the same year.

Aoqiang Group pays great attention to high-level talents, currently has more than 500 employees. Meanwhile, the company focuses on training employees and improving their skills, increasing the number of the team and improving its quality.We have more than 30 engineers and quality inspectors specialized in photovoltaic industry. We constantly update production equipment and necessary testing at the same time. Our laboratory implements strict production procedures and quality control to ensure high quality products are delivered to customers.

Aoqiang has also obtained ISO9001:2015, ISO14001:2015, ETA certification and also obtained CE certification. To fully ensure the quality of products, increase the investment rate of solar energy by investors, and global solar energy projects are more efficient. In order to meet the global clean energy goals and the increasing demand for solar energy from foreign companies.

In 2023, our branch office in Beijing was established under the name Beijing Yijia International Trading Co., Ltd. is a Chinese supplier focusing on the export of photovoltaic support systems and providing one-stop smart energy solutions, a full set of home energy storage configuration, solar appliances, commercial energy storage.

CONTENTS

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Tile Roof Solar PV Mounting System

Technical Parameters

System Name	Tile Hook	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009,
Foundation	Tile'Flat Tile'Slate Tile'Asphalt Shingle Tile		California Building Code CBC 2010
Tilt Angle	5–45°	Hook Material	SUS304 & AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicadle Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10 Years

Overview

Tile roof hook solar pv mounting system is applied to tileroof residential and commercial solar projects .the system canachieve stable and strong connection between the roof support structure and solar modules with modular patented design. pre-as-sembled kits save the installation time and cost onsite

Advantages

Applicable for different tile roofs
Design project by project,selecting configuration of mounting system components flexibly

Save Installation Time and Cost
Pre-assembled components and clear installation manuals are suppled to save the onsite installation time and cost,lead to better rol

Compatible to Different Types of Solar Modules
Compatible to most kinds of framed 60-cell, 72-cell,half-cut cells modules and frameless modules

PHOTOVOLTAIC STAND

Components


Tile Hook 1


Universal Clamp Kit H28-46 | End Clamp Kit | Inter Clamp Kit | Splice for Rail | Rail | Rail H60

Optional Hook Type


Tile Hook 1


Tile Hook 125


Slate Tile Hook - 02


Slate Tile Hook - 04


Tile Hook Kit


Tile Hook H120


Adjustable Tile Hook 1


Tile Hook 3


Alu Tile Hook E


Flat Tile Hook H107


Adjustable Tile Hook H132


Tile Hook H145

YIJIA

Balcony Solar Mounting System

Technical Parameters

System Name	Balcony Solar Mounting System	Design Standard	Euro Code/EN1991/1993/1994,BS 6399 ,ASCE 7-10
Installation Site	Balcony		International Building Code IBC 2009
Installation Base	Metal Railings,Wall ,Concrete Roof		California Building Code CBC 2010
Mounting Angle	10°–30°	Material	Steel & AL6005-T5
Wind Load	≤30m/s	Fastener	SUS304
Snow Load	≤1.0KM/m²	Small Components	AL6005-T5
Applicable Solar Module	Framed	Color	Natural Silver or Customized
Panel Layout	Horizontal	Warranty	10-Year Warranty

Overview

Balcony Solar Mounting System is a Solar Mounting System Product installed on balcony railings, which can easily realize the construction of photovoltaic power plants on the balcony. The system is all bolted and fixed, elimingating the need for welding and drilling during installation。
The unique telescopic tube support leg design allows the angle of the panel to be adjusted at any time

Advantages

Quick installation
Installation and removal are very simple and fast, 1-2 people can complete the installtion

Adjustable angle
The tilt angle of the panels can be flexibly adjusted according to the installation site to obtain the best power generation efficiency,with a maximum tilt angle of 30°

No welding required
The system is all bolted and fixed,eliminating the need for welding and drilling during installating

Stable and reliable
Optimized structural design and material selection ensure the strength and stability of the system, suitable for a variety of differnt climatic environments

Structure

❶ Installed on balcony with curved hook

❷ Installed on wall with expansion bolts

❸ Installed on concrete roof with expansion bolts

Comoonent Details

❶

Curved Hook
Material:Zn-Al-Mg Coating Steel

❷

U-shaped Hoop
Material: Zn-Al-Mg Coating Steel

❸

Longitudinal Beam H50
Material: Zn-Al-Mg Coating Steel

❹

30*30 Square Tube
Material: Zn-Al-Mg Coating Steel

❺

U-shaped Base Beam H50
Material: Zn-Al-Mg Coating Steel

❻

Pro-U shaped Adjustment Tube
Material: Zn-Al-Mg Coating Steel

Installation Guide

❶

Install the tripod on the ground

❷

Adjust the preset Angle

❸

Lock the part of the Curved Hook

❹

Find the 30*30 square tube also placed under the base beam of the tripod

❺

Repeat the above steps to complete the installation of another set of tripod

❻

Install the panel

YIJIA L Feet and Hanger Bolt Kit Metal Roof pv Mounting System

Overview

L feet Kit and Hanger Bolt kit is applied in most Corrugated Metal Roof commercial and industrial solar projects. The system can achieve stable and strong connection between the roof support structure and solar modules with modular Patented design. Pre-assembled kits save the installation time and cost on site

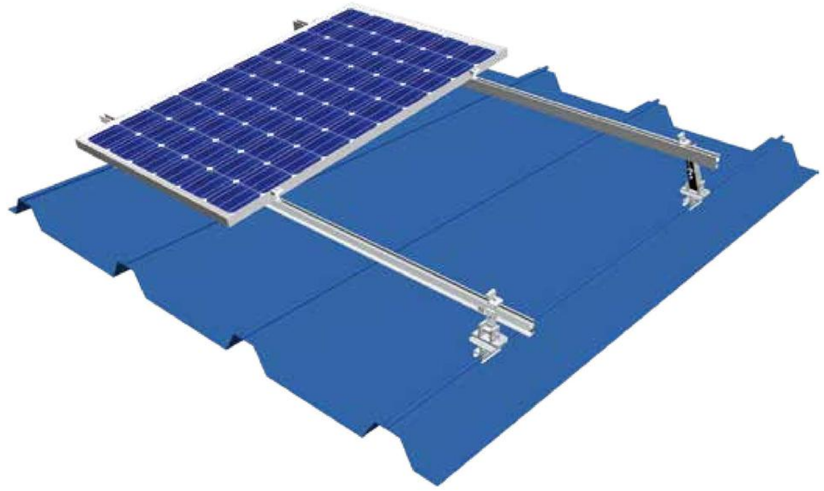
Technical Parameters

System Name	L Feet kit & Hanger Bolt Kit	Design Standard	Euro Code/EN1991/1993/1994,BS 6399,ASCE 7-10
Installation Site	Pithed Roof		International Building Code IBC 2009
Foundation	Trapezoidal Roof		California Building Code CBC 2010
Tilt Angle	0°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Component Details

L Feet Kit | Hanger Bolt | Hanger Bolt Kit | Universal Clamp Kit H28-46 | End Clamp Kit | Inter Clamp Kit | Splice for Rail | Rail

YIJIA Adjustable Support Kit Solar PV Mounting System



Overview

Adjustable Support Kit Solar PV Mounting System is applied in most Corrugated Metal Roof and Flat Roof commercial and industrial solar projects. The system can achieve stable and strong connection between the roor support structure and solar modules with modular Patented design. Adjustable angles can reduce the stock SKU and flexible for onsite installation. Pre-assembled kits save the installation time and cost onsite

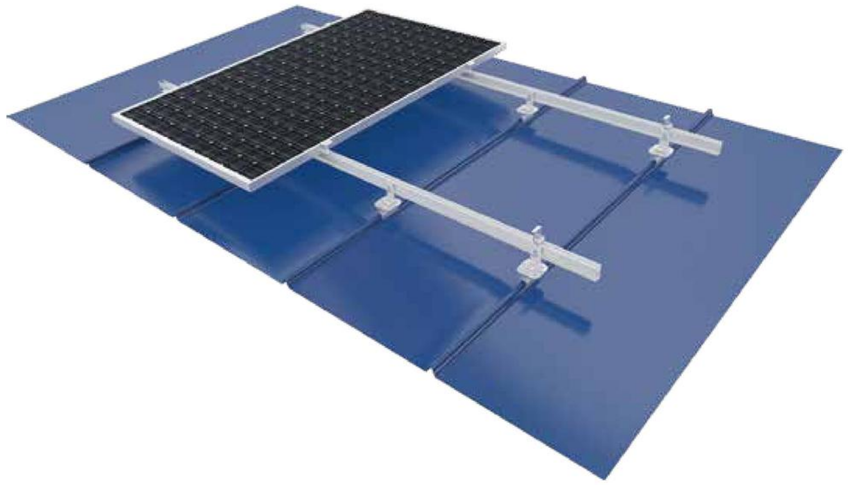
Technical Parameters

System Name	Adjustable Support	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009
Foundation	Metal Roof		California Building Code CBC 2010
Tilt Angle	10-60°	Rail	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Landscape or Portrait	Warranty	10-Year Warranty

Component Details

Front Support | Adjustable Back Support | End Clamp Kit | Inter Clamp Kit | Splice for Rail | Rail

YIJIA Color Steel Tile Photovoltaic Bracket



Technical Parameters

System Name	Color steel tile photovoltaic support system	Design Standard	Euro Code/EN1991/1993/1994,BS 6399,ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009
Foundation	Trapezoidal Metal Roof Support		California Building Code CBC 2010
Tilt Angle	0-15°	Material	AL6005-T5(Anodized)
Wind Load	≤ 60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤ 1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Module	Framed or Frameless	Color	Silver or Customized
Panel Oirentation	Portrait or Landscape	Warranty	10 Years

Overview

Mainly applied to metal roofs, and its material is Al6005-T5.With its professional desugn, it can realize the perfect connection between roof support and roof to meet customer instalation requirement.Professional solution and structure design can save your installation time and cost. Moreover, patented and unique design can bring you a good installation experience.

Advantages

Applicable for different metal roofs

According to customer requirement,choose different roof mounting system flexibly

Save installation time and cost

Save the installation time and cost by offering installation manual and solution

Compatible with different types of solar modules

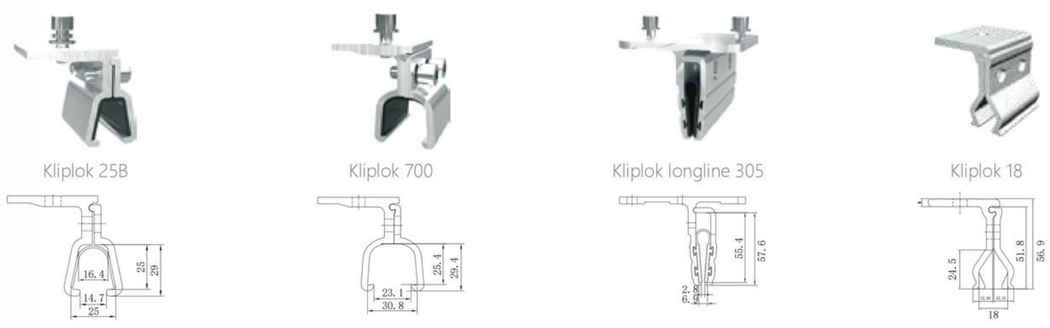
Free and flexible to choose different types of solar modules

Components

L Feet Kit | Multi-functional Kliplok 406/700 | End Clamp Kit | Inter Clamp Kit | Splice for Rail | Rail | Rail H60

Applicable kliplok Roof Support

Multi-functional Kliplok 23 | Kliplok 406&700 Compatible | Multi-functional Kliplok 406 | Medium Kliplok 23



Kliplok 25B | Kliplok 700 | Kliplok longline 305 | Kliplok 18

Universal Kliplok Roof Clamp | Multi-functional Kliplok V | Multi-functional Kliplok VI | Multi-functional Kliplok 406/700

YIJIA Color steel tile fixture photovoltaic system

Technical Parameters

System Name	Color steel tile fixture photovoltaic system	Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017
Installation Site	Pitched Roof		International Building Code IBC 2009
Foundation	Trapezoidal Metal Roof Support		California Building Code CBC 2010
Tilt Angle	0–15°	Material	Q235B(Hot-Dip Galvanized) & Al6005-T5(Anodized)
Wind Load	60m/s	Fastener	SUS304&Zinc-Nickel Alloy Electroplated Steel
Snow Load	1.6KN/m²	Small Components	Al6005-T5(Anodized)
Applicable Module	Framed or Frameless	Color	Silver or Customized
Panel Oirentation	Portrait or Landscape	Warranty	10 Years

Overview

Mainly applied to photovoltaic system,and its material is Al6005-T5. With its professional design,it can realize the perfect connection between roof support and roof to meet customer installation requirement. Professional solution and structure design can sace your installation time and cost. Moreover,Patented and unique design can bring you a good installation experience

Adbantages

Applicable for different metal roofs

According to customer requirement,choose different roof mounting system flexibly

Save installation time and cost

Save the installation time and cost by offering installation manual and solution

Compatible with different types of solar modules

Free and flexible to choose different types of solar modules

Components

End Clamp Kit

Inter Clamp Kit

Applicable kliplok Roof Support

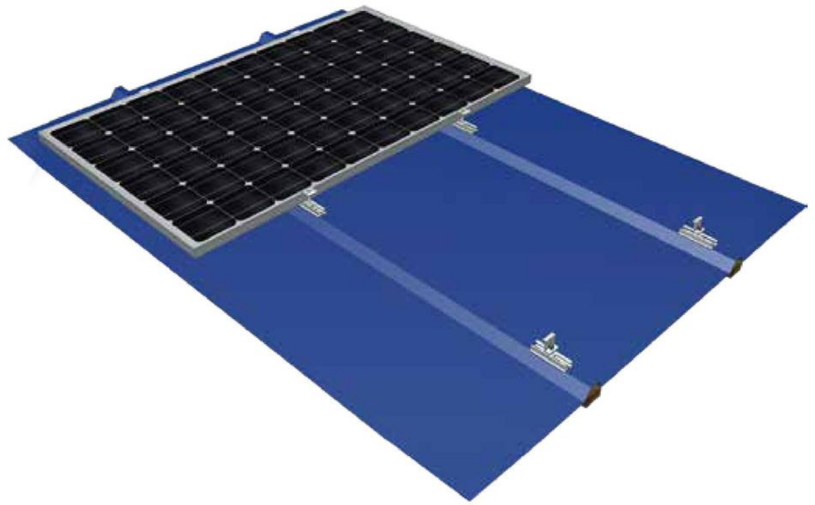
Kliplock 700 Support Kit L100

Kliplock 700 Support Kit L50

Medium Round Shape Kliplocks Support L100

Kliplock longline 305 Support Kit

YIJIA Mini-Rail Kit Metal Roof PV Mounting System



Technical Parameters

System Name	Mini-Rail Kit	Design Stamdard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Building Code IBC 2009
Roof Type	Trapezoidal Roof		California Building Code CBC 2010
Tilt Angle	0°	Material	Q235B(Hot-Dip Galvanized) & AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscap	Warranty	10-Year Warranty

Overview

Mini Kit is mainly applied to Trapezoidal Metal Roof commercial and industrial solar projects. The system can achieve stable and strong connection between the roof support structure and solar modules with modular Patented design. Pre-assembled kits save the installation time and cost onsite.

Adbantages

Applicable for Different Metal Roofs
Design project by project, selecting configuration system components flexibly

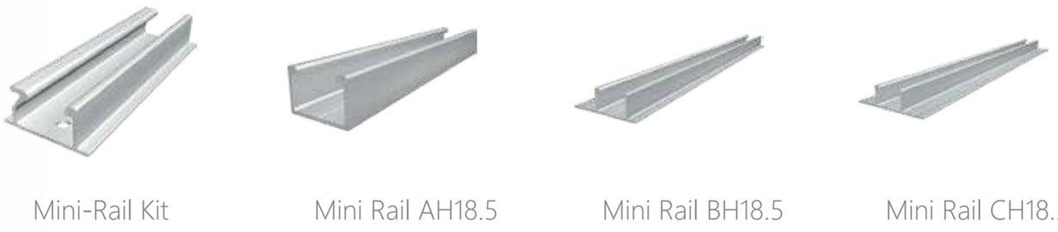
Save Installation Time and Cost
Pre-assembled components and clear installation manuals are supplied to save the onsite installation time and cost, lead to better RoI.

Compatible to Different Types of Solar Modules
Compatible to most kinds of framed 60-cell, 72-cell , half-cut cells modules and frameless modules

Components

Mini-Rail Kit | End Clamp Kit | Inter Clamp Kit | End Clamp Kit | Inter Clamp Kit

Optional

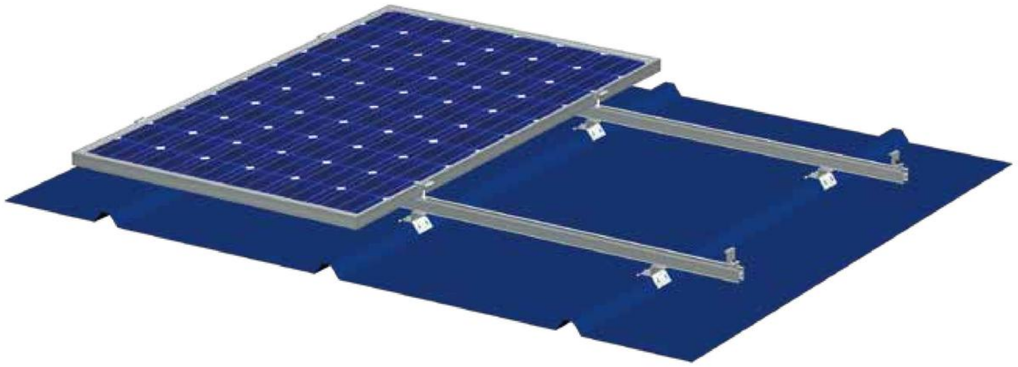


Mini-Rail Kit | Mini Rail AH18.5 | Mini Rail BH18.5 | Mini Rail CH18.5

Mini Rail H25 | Mini Rail AH30 | Mini Rail BH30 | Mini Rail CH30

T Rail H18.5 | Mini Rail H45 | T Rail H30 | T Rail H50

YIJIA Trapezoidal Metal Roof Solar PV Mounting System



Technical Parameters

System Name	Trapezoidal Metal	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Pitched Roof		International Biilding Code IBC 2009
Foundation	Trapezoidal Metal Roof Support		California Building Code CBC 2010
Tilt Angle	0-15°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KM/m²	Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Trapezoidal Metal Roof Clamp Solar PV Mounting System is mainly applied to metal roof, and its main material is aluminium alloy. With its professional design,it can realize the perfect connec-tion between kliploks and roof to meet customer installation requirement. Professional solution and structure design can save your installation time and cost. Moreover, Patented and unique design can bring you a good and fast installation experience

Adbantages

Applicable for different metal roofs

According to different metal roof types, making professionally design and achieve perfectly connection between the roof tiles

Save installation time and cost

Patented structure design and system solutions will reduce on-site installation time and cost

Compatible to different types of solar modules

By its independent researched clamps,it is compatible to various solar modules in the market

Excellent structure design

Professional structure design will meet components installation requirements of tiled or with angle , as well as the installation in landscape and portrait orientation

Components

Adjustable Trapezoidal Roof Support

End Clamp Kit

U20 Inter Clamp Kit

Splice for Light Symmetrical Rail

Light Symmetrical Rail

Tile's Structure

Applicable Standing Seam Support

Trimdeck Roof Hook-07-A

Trimdeck Roof Hook

Trimdeck Roof Hook-07-B

Trimdeck Roof Clamp

Trapezoidal Roof Support E

Trapezoidal Roof Support F

Trapezoidal Roof Support G

Trapezoidal Roof Support I

Trapezoidal Roof Support J

Trapezoidal Roof Support K

Trapezoidal Roof Support L

Trapezoidal Roof Support N

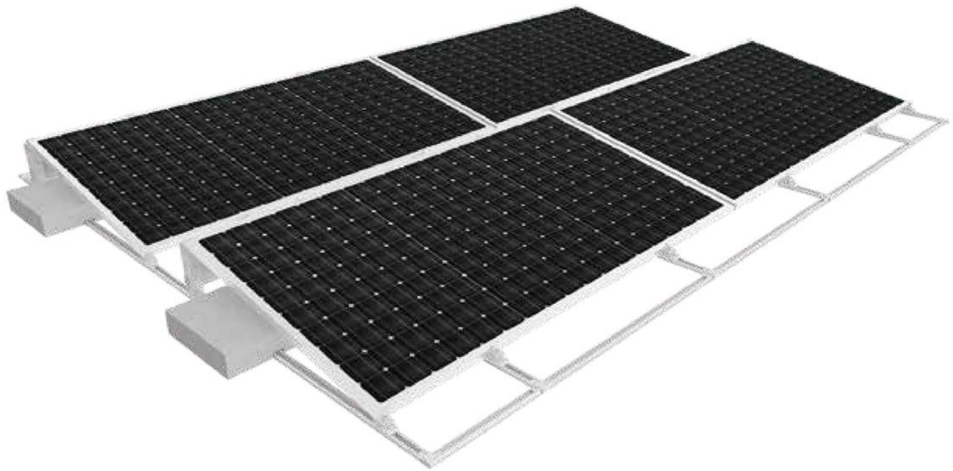
Trapezoidal Roof Support M

Trapezoidal Roof Support P

Adjustable Trapezoidal Roof Support

Trapezoidal Roof Support A

YIJIA Ballasted Roof Solar PV Mounting System - Single Side



Technical Parameters

System Name	Roof Solar PV Mounting System	Design Standard	Euro Code/EN1991/1993/1994,BS 6399, ASCE 7-10
Installation Site	Flat Cpmcrete roof,Flat ground ,Membrane roof		International Building Code IBC 2009
Roof Type	Concrete Ballast		California Building Code CBC 2010
Tilt Angle	0-30°	Material	Q235B(Hot-Dip Galvanized) AL6005-T5 (Anodized)
Wind Load	≤44m/s	Fastener	SUS304，Hot Dip Galvanized Zinc-Nokel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5 (Anodized)
Applicable Solar Module	Framed/Frameless, Any width pamel	Color	Silver or Customized
Panel Lyout	Landscape	Warranty	10-Year Warranty

Overview

Roof Solar PV Mounting System is a non-penetration solution for flat rooftop,to meet different tilt angles installation. it is applicable to the roof areas with medium wind load. Quick installa- tion and stable structure are assured by the modular patented design.

Adbantages

High Durbility Ensure the Structure Strength

Professional structure design and high-density aluminum material ensure the stability and strength of the structure

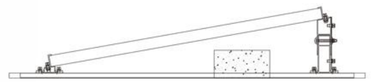
Unique Matrix Design

The matrix design further assures the stability of the whole system, and flexibly compatible with concrete block or ballast foundation

Reasonable Installation and Package Design

Simplified components comfiguration lead to quicker installation and smaller package size, saving installation cost and freight

Structure



Componet Details

1

Rail connection

Specification: L1350,L2700
Material: AL6005-T5(Anodized)

2

Front Support Plate

Specification: L50
Material: AL6005-T5(Anodized)

3

Rear Support Plate(Upper) (10°)

Specification: L50
Material: AL6005-T5(Anodized)

4

Rear Support Plate(Down)

Specification: L50
Material: AL6005-T5(Anodized)

5

GM Rail's Two Way Connector

Specification: L65
Material: PP

6

Three Way Conncetor

Specification: L90
Material: PP

7

Corrugated Gasket Anchor Kit M8*75

Specification: L60
Material: AL6005-T5(Anodized)

8

End Clamp Kit

Comonents: End Clamp
Spring Washer M8
Hexagon Socke Bolt

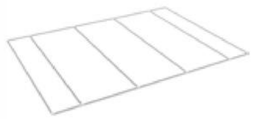
9

C Clamp Kit

Comonents: C Clamp
Cross Module
Spring Washer M8
Hex Socket Head Bolt

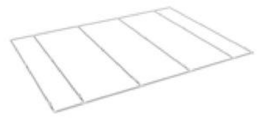
Installation Guide

1



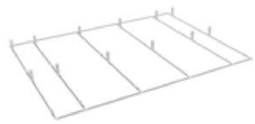
Connect the GM rail with connector.

2



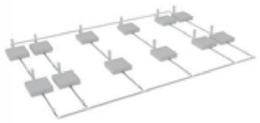
Install the front support plate.

3



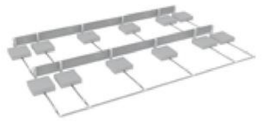
Install the rear support plate.

4



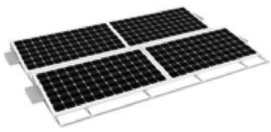
Put the cement pier.

5



Install the wind deflectors.

6



Install the panel,then the installation is done.

YIJIA

Ballasted Roof Solar PV Mounting System - East West/Two-Side

Technical Parameters

System Name	Matrix Solar Roof Mounting System	Design Standard	Euro Code/EN1991/1993/1994,BS 6399, ASCE 7-10
Installation Site	Flat Concrete roof, Flat ground,Membrane roof		International Building Code IBC 2009
Roof Type	Concrete Ballast		California Building Code CBC 2010
Tilt Angle	10°	Material	AL6005-T5(Anodized)
Wind Load	≤44m/s	Fastener	SUS304,Hot Dip Galvanized,Zinc-Nickedl Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed/Frameless,Any Width Panel	Color	Silver or Customized
Panel Layout	Landscape	Warranty	10-Year Warranty

Overview

Matrix Solar Roof Mounting System is a non-penetration solution for flat rooftop, to meet different tilt angles installation. it is applicable to the roof areas with medium wind load. Quick installa-tion and stable structure are assured by modular patented design.

Adbantages

High Durbility Ensure the Structure Strength

Professional structure design and high-density aluminum material ensure the stability and strength of the structure

Unique Matrix Design

The matrix design further assures the stability of the whole system, and flexibly compatible with concrete block or ballast foundation

Reasonable Installation and Package Design

Simplified components comfiguration lead to quicker installation and smaller package size, saving installation cost and freight

Structure

Componet Details

1

Rail connection

Material: AL6005-T5(Anodized)

2

Front Support Plate（Nut)

Specification: L50
Material: AL6005-T5(Anodized)

3

Rear Support Plate(Upper) (10°)

Specification: L50
Material: AL6005-T5(Anodized)

4

Rear Support Plate(Upper) (10°)

Specification: L50
Material: AL6005-T5(Anodized)

5

C Clamp Kit

Comonents: C Clamp
Cross Module
Spring Washer M8
Hex Socket Head Bolt

6

End Clamp Kit

Comonents: End Clamp
Spring Washer M8
Hexagon Socke Bolt

Installation Guide

1

Put the GM Rail

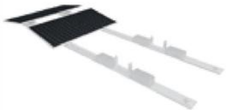
2

Install the support plate.

3

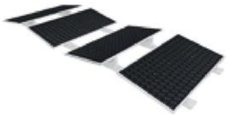
Put the cement pier.

4



Install the module

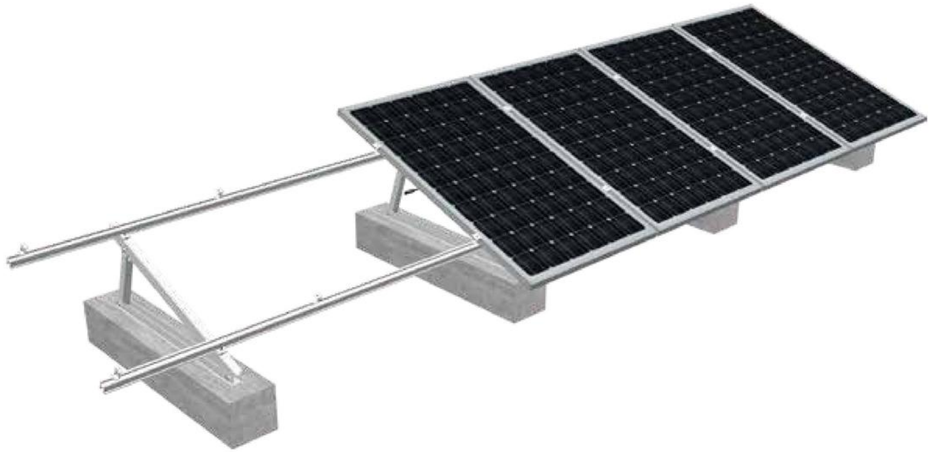
5



Complete installation

YIJIA

Roof Solar PV Mounting System Matrix



Technical Parameters

System Name	Roof Solar PV Mounting System Matrix	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Flat Roof, Pitched Roof		International Building Code IBC 2009
Roof Type	Concrete Roof , Metal Roof		California Building Code CBC 2010
Tilt Angle	0-60°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layput	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Roof Solar PV Mounting System Matrix II is derived from . to meet different roof projects demands. Solar modules can be arranged with single or double rows of landscape or portrait orientation. Quick installation and stable structure are assured by the modular Patented design.

Adbantages

System Compatibility
Components mostly pre-assembled in factoty to assure quick and reliable installation on site. Suitable for different flat rooftop,and compatible to different types of sloar modules

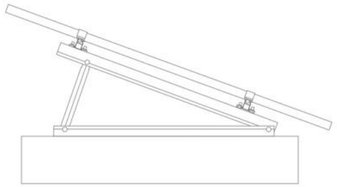
Unique Mudsill Design
The mudsill can be fixed to flat roof or pitched roof with concrete foundation or steel foundation

Solar Module Layout Flexibility
Both landscape and portrait solar module layout are suitable. Both single row and double rows layout can be achieved separately or combined.

Adjustability
Tilt angle can be adjustable

PHOTOVOLTAIC STAND

Structure



Componet Details

1

Pro Rail 50
Specification: 3100、4100、5100mm
Material: AL6005-T5(Anodized)

2

Splice for Pro Rail 50
Specification: Standard length 260mm
Flange Head Self-taping Screw ST6.3*19
Material: AL6005-T5(Anodized)

3

End Clamp Kit
Components: End Clamp
Croos Module
Spring Washer M8
Hex Socket Head Bolt

4

Inter Clamp kit
Components: End Clamp
Croos Module
Spring Washer M8
Hex Socket Head Bolt

5

C Clamp Kit
Components: C Clamp
Croos Module
Spring Washer M8
Hex Socket Head Bolt

6

Angle Aluminum Tripod Support
Components: Angle Aluminum Beam
Angle Aluminum Mudsill
Angle Aluminum Side Beam
flat washerM8
spring washerM8
Hexagon Bolt M8*2.5

7

Single Tripod Support
Components: Tripod Support Beam
Tripod SUpport Mudsill
Tripod Support Square TubeA
HJointer
Flat Washer M10
Spring Washer M10
Hexagon Bolt M10*65

8

Double Tripod Support
Components: Tripod Support Beam
Tripod SUpport Mudsill
Tripod Support Square TubeA\B
HJointer
Flat Washer M10
Spring Washer M10
Hexagon Bolt M10*65

9

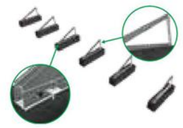
Adjustable Tripod
Components: Tripod Support Beam
Tripod SUpport Mudsill
Tripod Support Square TubeA
HJointer
Flat Washer M10
Spring Washer M10
Hexagon Bolt M10*65

Installation Guide

1

Place the concrete base at the position indicated on the solution drawings

2

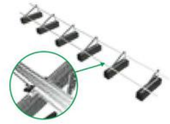


Fasten the preassembled supports on the expansion bolts by C Clamps

3

Install splices

4

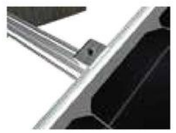


Fasten the rails by C Clamp Kits

5

Install modules on the rails

6



Fasten modules by Inner Clamp Kits

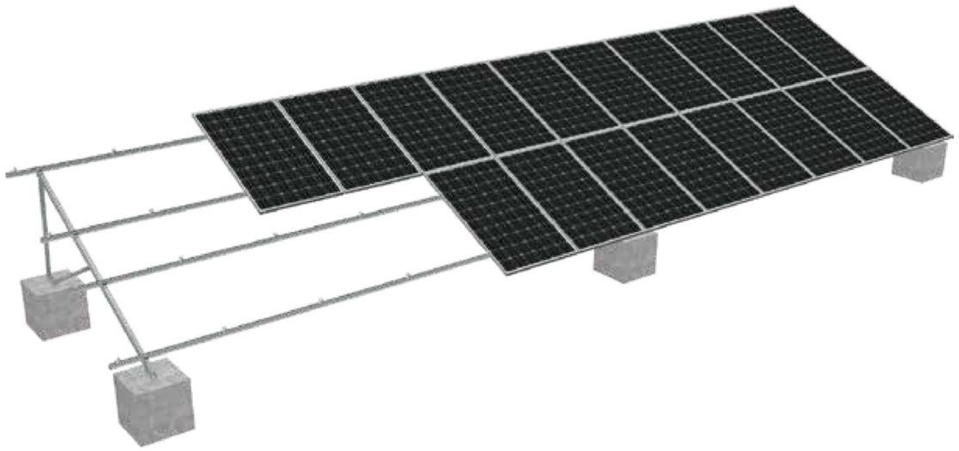
7

Fasten modules by End Clamp Kits

8

Complete installation

YIJIA Double-row Tripod Base-Beam-Free



Technical Parameters

System Name	Double-row Tripod Base-beam-free	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Installation Site	Flat roof,ground		International Building Codel IBC 2009
Roof Type	Concrete foundation, steel foundation		California Building Code CBC 2010
Tilt Angle	0-60°	Material	AL6005-T5(Anodized)
Wind Load	≤60m/s	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Snow Load	≤1.6KN/m²	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Double-row Tripod Base-beam-free is derived from. To meet different roof projects demands. Solar modules can be orientation. Quick installation and stable structure are assured by the modular patented design.

Adbantages

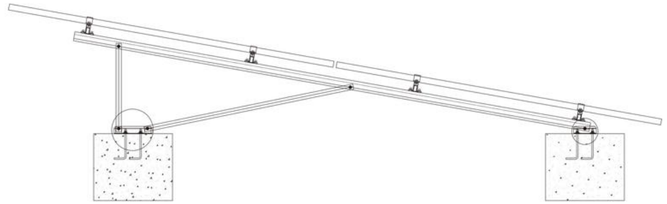
System Compatibility
Components mostly pre-assembled in factoty to assure quick and reliable installation on site. Suitable for different flat rooftop,and compatible to different types of sloar modules

Unique Mudsill Design
The mudsill can be fixed to flat roof or pitched roof with concrete foundation or steel foundation

Solar Module Layout Flexibility
Both landscape and portrait solar module layout are suitable. Both single row and double rows layout can be achieved separately or combined.

Adjustability
Tilt angle can be adjustable

Structure



Componet Details

1

Aluminium alloy guide rail
Specification: 3100、4100、5100mm
Material: AL6005-T5(Anodized)

2

Guide connector
Specification: L200
Material: AL6005-T5(Anodized)

3

End Clamp Kit
Components: End Clamp
Croos Module
Spring Washer M8
Hex Socket Head Bolt

4

Inter Clamp kit
Components: End Clamp
Croos Module
Spring Washer M8
Hex Socket Head Bolt

5

Rail Clamp
Material: AL6005-T5(Anodized)

6

RMIV Back Base
Material: Steel Q235B
(Hot-Dip Galvanized)

7

RMIV Front Base
Material: Steel Q235B
(Hot-Dip Galvanized)

8

Pre-assembled Structure
Material: AL6005-T5(Anodized)

Installation Guide

1

Place the concrete base and install the anchor base

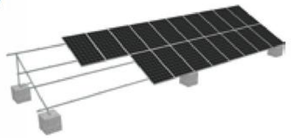
2

Install pre-assembled structure

3

Install the rail

4

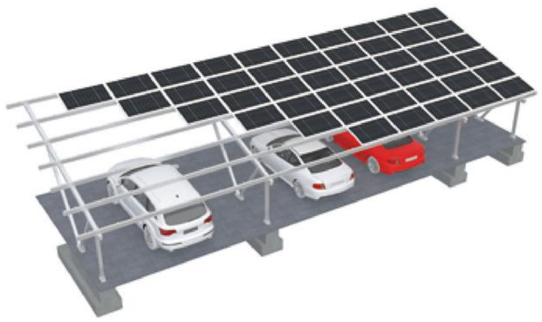


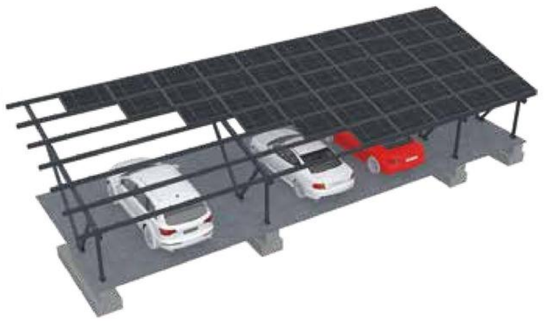
Install the panels.

5

Complete installation

YIJIA Solar Carport System





Technical Parameters

Installation Site	Open Area	Design Standard	Euro Code/EN1991/1993/1994, BS6300, ASCE 7-10
Foundation	Concrete foundation		International Building Code IBC 2009
Tilt Angle	5-15°		Califprnia Building Code CBC 2010
Wind Load	≤45m/s	Material	AL6005-T5(Anodized)
Snow Load	≤1.2KN/m²	Fastener	SUS 304& Zinc-Nickel Alloy Electroplated Steel
Ground Clearance	≤2000mm+	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Solar Carport System is a pre-assembled ground solar mounting system which is ideal for large commercial and utility-scale solar pv projects. The system has been developed for various photovoltaic modules and will be customized to fit into the parking lot or designed according to specific requirements. The Carport System can protect the cars to avoid damage from sunshine wind rain water and snow.Mibet's engineers continue to optimize the design of system the quality of product and service,and also provide the best solution for your Solar Carport System

Adbantages

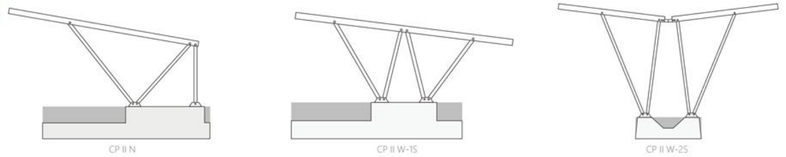
Customized Solution
Design case by case, making a good utilization of ground resource and pursuit for easy and quick installation

High Waterproof
The special waterproof conforms to the structure of system, which make the performance Stronger

Save Installation Time and Labor Cost on Site
With installation manuals and system solution ,the construction on site will be simple.
less construction time directly reduces project costs

Compatible to Varied Solar Modules
With module clamps, the system compatible with most kinds of framed and frame and frameless modules

Structure



Componet Details

1

Conical Symmetric Cross Beam 135
Specification: L*58*135
Standard Length: 3300mm
5000mm

2

Splice for Conical Symmetric Cross Beam 135
Specification: L260mm
Components: Hexa Self-Tapping Screw
With EPDM Washer ST6.3*19

3

Beam 160
Specification: L*100*100
Material: AL6005-T5(Anodized)

4

C Clamp Kit
Components: C Clamp
Symmetric Cross Module
Spring Washer M8
Hexagon Socket Bolt

5

Wide End Clamp Kit
Components: Wide End Clamp
Symmetric Cross Module
Spring Washer M8
Hexagon Socket Bolt

6

U25 Inter Clamp Kit
Components: U25 Inter Clamp
Symmetric Cross Module
Spring Washer M8
Hexagon Socket Bolt

7

Anchor Plate for Carport(L250)
Specification: 62*49*L250
Material: AL6005-T5(Anodized)

8

Square Tube
Specification: L*100*1900
Material: AL6005-T5(Anodized)

9

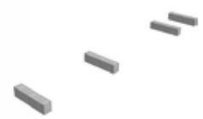
Anchor Plate for Carport(L450)
Specification: 62*49*L450
Material: AL6005-T5(Anodized)

10

Waterproof for Cross Beam
Specification: L*100*1900

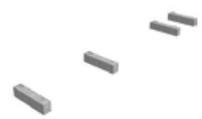
Installation Guide

1



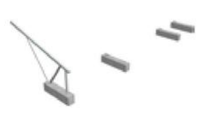
Grout the bolt embedded on the concrete foundation based on project solution.

2



Fix Corrugated T Anchor Plate Kit on the concrete foundation.

3



Connect the Pre-assemble Support with the Anchor Plate Kit on the concrete foundation.

4

The installation of Pre-assemble Support is done.

5

Install beam.

6

The installation of beam is done.

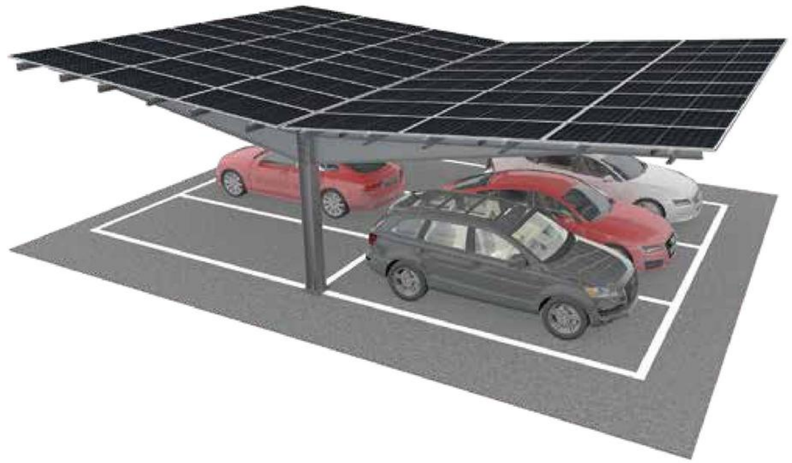
7

Fix the solar module with Inter Clamp Kit & End Clamp Kit.

8

Installation is done.

YIJIA Mono Carport System



Technical Parameters

Installation Site	Open Area	Design Standard	Euro Code/EN1991/1993/1994,BS 6300,ASCE 7-10
Foundation	Concrete Foundation		International Building Code IBC 2009
Tilt Angle	5–15°		California Building Code CBC 2010
Wind Load	≤50m/s	Material	Coating Steel & HDG Steel
Snow Load	≤1.6KN/m²	Fastener	Alloy & SUS304 & HDG Steel
Ground Clearance	≤1800mm~3000mm	Small Components	AL6005-T5 (Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-year

Overview

Carport System is mainly customized accirding to customer site requirements, which is convenient parking, beautiful appearance. PV carport not only has the function of ordingary carport, but also can generate electricity and income through solar power generation. Professional solutions bring you a simple and convenient installation experience, Mibet engineers have been committed to optimize the system design,products and service quality, and provide you with the best quality solutions of photovoltaic shed.

Adbantages

Customized Solution
Design case by case, making a good utilization of ground resource and pursuit for easy and quick installation

Convenient parking and beautiful appearance
The single column design makes the structure simpler minimizes obstruction, and facilttates parking and access

Save Installation time and Labor Cost
Pre-assembled Components Save Onsite Installation Time Solution design case by case, most components
pre-assembled in factory, no onsite cut and drill request, saving the onsite installation time and cost

Compatible to Varied Solar Modules
With module clamps the system compatible with most kinds of framed 60-cell,72-cell

Structure

Componet Details

1


76 steel tube
Material: HDG Steel

2


Mono post with welding plate
Material: Coating Steel

3


Splick for Rail
Material: Coating Steel

4


Rail Connector
Material: Coating Steel

5


H-shape Steel
Material: HDG Steel

6


H-shape Steel with Welding Plate
Material: HDG Steel

7


Pull Rod Kit-A
Material: Coating Steel

8


Pull Rod Kit-B
Material: Coating Steel

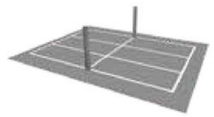
9


Inter Clamp kit
Material: AL6005-T5(Anodized)
SUS304

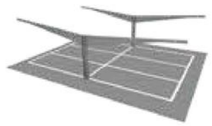
10


End Clamp kit
Material: AL6005-T5(Anodized)
SUS304

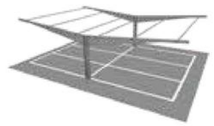
Installation Guide

1


Fix the H-shape Steel Welding Plate.

2


Install the H-shape Steel.

2


Install the 76 steel tube.

4


Install the Pull Rod kit A&B.

5


Install the module.

6


The installation is done.

YIJIA Ground mounted system

Technical Parameters

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994,Bs 6399, ASCE 7-10
Foundation	U Post		International Building Code IBC 2009
Tilt Angle	0-60°		California Building Code CBC 2010
Wind Load	≤60m/s	Material	Steel Q235B(Hot-Dip Galvanized),AL6005-T5(Anodized)
Snow Load	≤1.6KN/m²	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Ground Clearance	≤500-2000mm	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Ground Terrace is a highly pre-assembled ground mounting system, which can be applied to the installation of large commercial and utility scale solar PV projects. Made of high quality aluminum material. has excellent corrosion resistance perfor-mance. The single-pile patented structure design saves installation time and cost, with good compatibility to varied solar modules.

Adbantages

Pre-assembled Components Save Onsite Installation Time

Solution design case by case, most components pre-assembled in factory,no onsite cut and drill request, saving the onsite installation time and cost.

Single-Pile Design

Single-pile design reduce half of the ramming time, saving the construction cost.

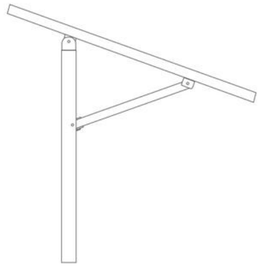
Structure Configuration Multi-Options

Single or double embrace bars structure configuration available to meet varied projects requests.

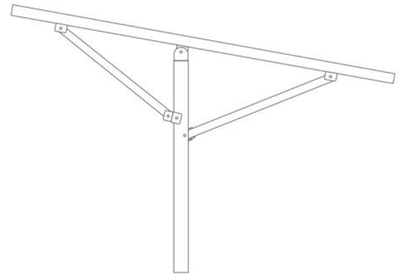
Flexibility and Adjustability

The structure can be adjusted with some tolerance with east-west, west-south and south-north directions, assuring flexible on-site installation to achieve best yield for solar modules

Structure



Single Arm Side Support



Double Arms Side Support

Componet Details

1

Rail 85

Specification: L*63.5*85
Standard Length: 3100mm
4100mm
5100mm

2

Splice for Rail 85

Specification: L260mm
Components: Hexa Self-Tapping Screw
With EPDM Washer
ST6.3*19

3

Pre-assembled Support

Components: U Beam;T Shape Jointer; C clamp Kit
Pre-Assembled Square Tube
Spring WasherM12;Washer M12
Hexagon Nut M12:
Hexagon Bolt M12*95
Hexagon Bolt M12*75

4

C Clamp Kit

Components: C Clamp
Cross Module
Spring Washer M8
Hexagon Socket Bolt

5

End Clamp Kit

Components: End Clamp
Croos Module
Spring Washer M8
Hexagon Socket Bolt

6

Inter Clamp Kit

Components: Inter Clamp
Cross Module
Spring Washer M8
Hexagon Soket Bolt

7

Post Plate

Material: AL6005-T5(Anodized)
Specification: Plate A : L90
Plate B : L70

8

U Post

Material: Steel Q235B
(Hot-Dip Galvanized)

Installation Guide

1

Install the U post with driven pile based on project solution

2

Install Post Plate onto U post

3

Install the Pre-assemble Support on the Post Plate & U post

4

Fasten the rail with C Clamp Kit

5

Fix the solar module with Inter Clamp Kit & End Clamp Kit

6

Installation is done.

YIJIA

Spiral pile system (photovoltaic bracket)

Technical Parameters

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399 , ASCE 7-10
Foundation	Concrete Base or Ground Screw		International Building Code IBC 2009
Tilt Angle	0-60°		California Building Code CBC 2010
Wind Load	≤60m/s	Material	AL6005-T5(Anodized)
Snow Load	≤1.6KN/m²	Fastener	SUS304 & Zinc-Nickel Alloy Electroplated Steel
Ground Clearance	500-2000mm	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Spiral pile (photovoltaic bracket) is a highly pre-assembled ground mounting system,with strong wind load and snow load resistance. The system can achieve minor adjustment onsite with special design of Anchor Plate to adapt to different sites, and is mainly applied to medium to large scale solar PV projects. patented and certified system design ensure projects safety and quick installation.

Adbantages

Pre-assembled Components Save Onsite Installation Time

Solution design case by case, most components pre-assembled in factory,no onsite cut and drill request, saving the onsite installation time and cost.

Flexibility and Adjustability

The structure can be adjusted with some tolerance with east-west , west-south and south-north directions, assuring flexible on-site installation to achieve best yield for solar modules.

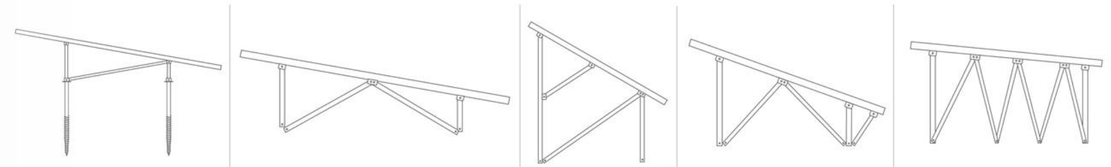
Quick Modular Kit Fixation

Most of the components are designed as modular kit with anodized aluminum to further ensure easy and fast construction on site

No Drill on Portrait Beam

It improves the strength of the system to fix the portrait beam onto the post by special designed clamps, with force at the same direction of the gravity.

Structure



N Shape Preassembled Supports | W Shape Preassembled Supports | Multiple Support I | Multiple Support II | Multiple Support III

Componet Details

1

Cross Beam 85

Specification: L*71*85
Standard Length: 3100mm
4100mm
5100mm

2

Splice for Cross Beam 85

Specification: L260MM
Components: Hexa Self-Tapping Screw With EPDM Washer ST6.3*19

3

Preassembled Support

Components: Cross Beam 80, C Clamp 80, T Front Jointer, T Back Jointer, Flat Washer M8, Spring Washer M8, Flat head Hexagon Bolt, External Hexagon Bolt M12, External Hexagon Bolt kit M12*90, Square Tube A, Square Tube B, Square Tube C, Flat Washer M12, Spring Washer M12

4

C Clamp Kit

Components: C Clamp, Cross Module, Spring Washer M8, Hexagon Soket Head Bolt M8*28

5

Wide End Clamp Kit

Components: Wide End Clamp, Cross Module, Spring Washer M8, Hexagon Socket Head Bolt

6

U25 Inter Clamp Kit

Components: Inter Clamp, Cross Module, Spring Washer M8, Hexagon Socket Head Bolt

7

Corrugated T Anchor Plate Kit

Components: Corrugated Gasket, Corrugated T Plate, Hexagon Bolt Kit
Material: AL6005-T5(Anodized0

8

Corrugated U Anchor Plate Kit

Components: Corrugated Washer, Corrugated U Anchor Plate, M12*95 External Hexagon Bolt Kit
Material: AL6005-T5(Anodized0

Installation Guide

1

Install the ground screw based on project solution.

2

Fix Corrugated U Anchor Plate Kit & Corrugated T Anchor Plate Kit on ground screw.

3

Install the Pre-assemble Support on ground screw.

4

Install Back Side Support.

5

Install Beam.

6

Fix the solar module with Inter Clamp Kit & End Clamp Kit.

YIJIA Concrete Pole High Elevation Mounting System

Technical Parameters

Installation Site	Ponds, Reservoirs	Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017,
Foundation	Pre-stressed Concrete Pile		International Building Code IBC 2009
Tilt Angle	0-45°		California Building Code CBC 2010
Wind Load	60m/s	Material	Q235B(Hot-Dip Galvanized) & Al6005-T5(Anodized)
Snow Load	1.4KN/m²	Fastener	Q235B(Hot-Dip Galvanized) & Zinc-Nickel Alloy Electroplated Steel
Groud Clearance	According to project's information	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Concrete Pile High Elevation Mounting System is applied to fish Pond, flood area and sandy land solar PV projects. Main components are made of hot-dio galvanized steel, with good performance of structure strength, stability and anti-corrosion,compatible with varied solar modules. Unique piles and structure design save instakkation time and cost.

Adbantages

Pre-assembled Components Save Onsite Installation Time

Solution design case by case, most components pre-assembled in factory,no onsite cut and drill request, saving the onsite installation time and cost.

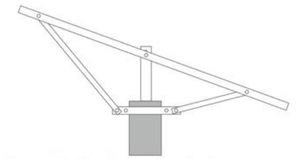
Dual-Use of land or Utiltze Waste Land Improve the Economic Benefit

Install solar projects above the fishpond achieving the dual-use of land to improve the economic benefit. This system can utilize waste land like flood area or sandy area to save land resources.

Quick Modular Kit Fixation

Most of the components are designed as modular kit with anodized aluminum to further ensure easy and fast construction on site

Structure



Concrete Pile High Elevation Mounting System structures

Hoop Kit

Beam (Side viewing)

Componet Details

1

Beam

Hoop Spec: c100*50*15*L4500
Material: Q235B (Hot-Dip Galvanized)

2

Side Beam

Hoop Spec: c10*50*15*2*L2800
Material: Q235B (Hot-Dip Galvanized)

3

Front/Back Post

Components: c10*50*15*2*L2800
Back Support
Material: Q235B (Hot-Dip Galvanized)

4

Hoop Kit

Hoop Spec: Hoop Spec: 300*5.0*100
Components: Flat Washer M14
Spring Washer M14
Hexagon Socket
Head Bolt M12 *65

5

End Clamp Kit

Components: End clamp
Cross Module
Spring Washer M8
Hexagon Socket Bolt

6

Inter Clamp Kit

Components: Inter clamp
Cross module
Spring washer M8
Hexagon Socket Bolt

7

Post

Hoop Spec: C100*50*15*2*L557
Components: Flat Washer M16
Spring Washer M16
Hexagon Socket
Head Bolt Nut M16
Hexagon Socket
Head Bolt M16*50

8

Small Connerctor

Hoop Spec: 80*40*5*40
Components: Flat Washer M12
Spring Washer M12
Hexagon Socket
Head Bolt Nut M12
Hexagon Socket
Head Bolt M12*30

9

Big Connerctor

Hoop Spec: 80*40*5*100
Components: Flat Washer M12
Spring Washer M12
Hexagon Socket
Head Bolt Nut M12
Hexagon Socket
Head Bolt M12*30

Installation Guide

1

Install concrete pillar based on project solution.

2

Install Post and Hook Kit.

3

Install Front & Back Support and Inclined Support.

4

The installation of Front & Back Support and Inclined Support is done.

5

Install beam.

6

The installation of beam is done.

7

Fix the solar module with Inter Clamp Kit & End Clamp Kit.

8

Installation is done.

YIJIA Photovoltaic Ground Mounting II

Technical Parameters

Installation Site	Ground	Design Standard	Euro Code/EN1991/1993/1994, BS 6399, ASCE 7-10
Foundation	C-shape, I-shape, ⎍-shape Piles		International Building Code IBC 2009
Tilt Angle	0-60°		California Building Code CBC 2010
Wind Load	≤ 60m/s	Material	Q235B(Hot-Dip Galvanized)
Snow Load	≤ 1.6KN/m²	Fastener	SUS304 & Hot Dip Galvanized
Ground Clearnce	≤ 500-2000mm	Small Components	AL6005-T5(Anodized)
Applicable Solar Module	Framed or Frameless	Color	Silver or Customized
Panel Layout	Portrait or Landscape	Warranty	10-Year Warranty

Overview

Ground Solar PV Mounting System is applied for the istallation of large-scale and utility-scale solar PV power plant. Components are made of hot-dio galvanized steel, with good perfotmance with varied solar modules. Unique piles and structure design save installation time and cost.

Adbantages

Unique Pile Design
Unique post design suitable for varied soil conditions and strengthen the whole structure stability

Pre-assembled Components Save Onsite Installation Time
Solution design case by case, most components pre-assembled in factory, no onsite cut and drill request, saving the onsite installation time and cost.

Flexibility and Adjustability
The structure can be adjusted with some tolerance with east-west, west-south and south directions, assuring flexible on-site installation to achieve best yield for solar modules

Compatible to Varied Solar Modules
Module clamps, the system compatible with most kinds of framed 60-cell, 72-cell, half-cut cells modules and frameless modules

Structure

Componet Details

1

Rail
Material: Steel Q235B (Hot-Dip Galvanized)

2

Beam Connector
Material: Steel Q235B (Hot-Dip Galvanized)

3

C-shape Pile
Material: Steel Q235B (Hot-Dip Galvanized)

4

Pile
Material: Steel Q235B (Hot-Dip Galvanized)

5

Inter Clamp Kit
Components : Inter Clamp
Spring Washer M8
Hexagon Socket Bolt

6

End Clamp Kit
Components : End Clamp
Spring Washer M8
Hexagon Socket Bolt

Installation Guide

1

Install the C-shape Pile based on project solution.

2

Install Inclined Support.

3

The installation of Inclined Support is done..

4

Installation the Beam.

5

Fix the solar module with Inter Clamp Kit & End Clamp Kit.

6

Installation is done.