

ETNA

Tile Roof Mounting System

Tile Roof Mounting System



The mounting system of glazed tile roof adopts advanced design, and the components are fixed by roof hook, solar rail and solar clamp, Easy and fast installation, highly pre assembled and customized solutions, saving a lot of installation time and money.

Safety and Stability

The system is designed by skilled designers and can meet the export standards of various countries. The components are made of high-quality aluminum alloy and stainless steel with long service life. The main mounting components are tested to ensure the strength, stability and safety.

Easy to Install

There are only 4-5 kinds of components in a system, and most of the accessories are pre assembled, which saves you time and money.

Universality

It is suitable for installing solar modules of any specification on residential or commercial projects.

Components



Solar Rail
Model No.: TP-R01
Material: AL6005-T5



Roof Hook
Model No.: TP-IK-01
Material: SUS304



Inter Clamp
Model No.: TP-IC-40
Material: AL6005-T5
SUS304



End Clamp
Model No.: TP-EC-40
Material: AL6005-T5
SUS304



Rail Splice Kit
Model No.: TP-DR-SP
Material: AL6005-T5
SUS304



Bolt and Nut
Material: AL6005-T5
SUS304

Installation Site: Tile Roof

Main Material: SUS304 and aluminum

Color: Natural

Surface treatment: anodized thickness 10um

Tilt angle: Flat, up to 60 degrees

Solar Panel: suitable for all solar panel

Array: according client's requirement

Height of buliding: up to 20meters

Standard: CE and AS/NZS 1170 & DIN 1055

Wind Load: 60m/s

Snow Load: 1.4kn/m²

Warranty: 10years

Duration: 25 years



Tin Roof Mounting System - L foot



Components List:

Model name	L Roof Clamp	Srew & Clamp	Tapping Screw	Rubber
Picture				

Model name	Rail	Splice	End Clamp	Mid Clamp
Picture				



ETNA tin roof mounting system is suitable for most roofs. It provides a simple and economical solution for the installation of all the framed and frameless solar panels on the market. The simple and solid mounting structure enables it to make full use of the existing tin roof, and the highly efficient and dense components greatly increase the installed capacity, so as to achieve energy saving and emission reduction.

Components



Product:
L foot
Pointed hanger bolt

Material:
Aluminum
stainless steel



Product:
L foot
Flat hanger bolt

Material:
Aluminum
stainless steel



Product:
L foot
Pointed wood screw

Material:
Aluminum
stainless steel



Product:
L foot
Self drilling wood screw

Material:
Aluminum
stainless steel



Product:
Plate
Flat hanger bolt

Material:
stainless steel



Product:
Plate
Point hanger bolt

Material:
stainless steel

Installation Site: Tin Roof

Main Material: SUS304 and aluminum

Color: Natural

Surface treatment: anodized thickness 10um

Tilt angle: Flat, up to 60 degrees

Solar Panel: suitable for all solar panel

Array: according client's requirement

Height of buliding: up to 20meters

Standard: CE and AS/NZS 1170 & DIN 1055

Wind Load: 60m/s

Snow Load: 1.4kn/m²

Warranty: 10years

Duration: 25 years



- TP-TB01: M10*200 hangar bolt with 3 flange nuts and 1 rubber
- TP-TB02: M10*250 hangar bolt with 3 flange nuts and 1 rubber
- TP-TB03: M10*300 hangar bolt with 3 flange nuts and 1 rubber
- TP-TB04: M12*200 hangar bolt with 3 flange nuts and 1 rubber
- TP-TB05: M12*250 hangar bolt with 3 flange nuts and 1 rubber
- TP-TB06: M12*300 hangar bolt with 3 flange nuts and 1 rubber

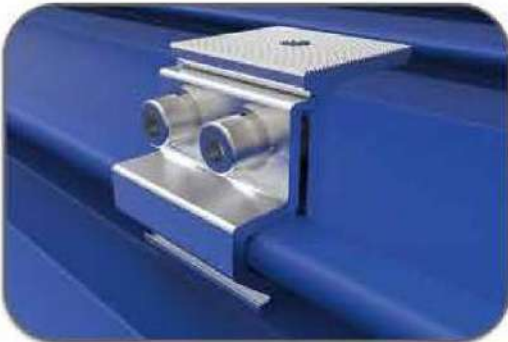
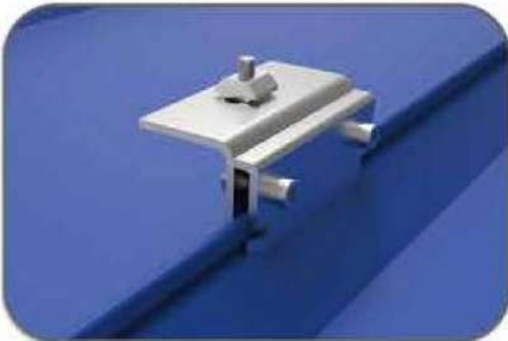
Tin Roof Mounting System - Vertical Roof Clamp A



- Installation Site: Tin Roof
- Main Material: SUS304 and aluminum
- Color: Natural
- Surface treatment: anodized thickness 10um
- Tilt angle: Flat, up to 60 degrees
- Solar Panel: suitable for all solar panel
- Array: according client's requirement
- Height of buliding: up to 20meters
- Standard: CE and AS/NZS 1170 & DIN 1055
- Wind Load: 60m/s
- Snow Load: 1.4kn/m²
- Warranty: 10years
- Duration: 25 years



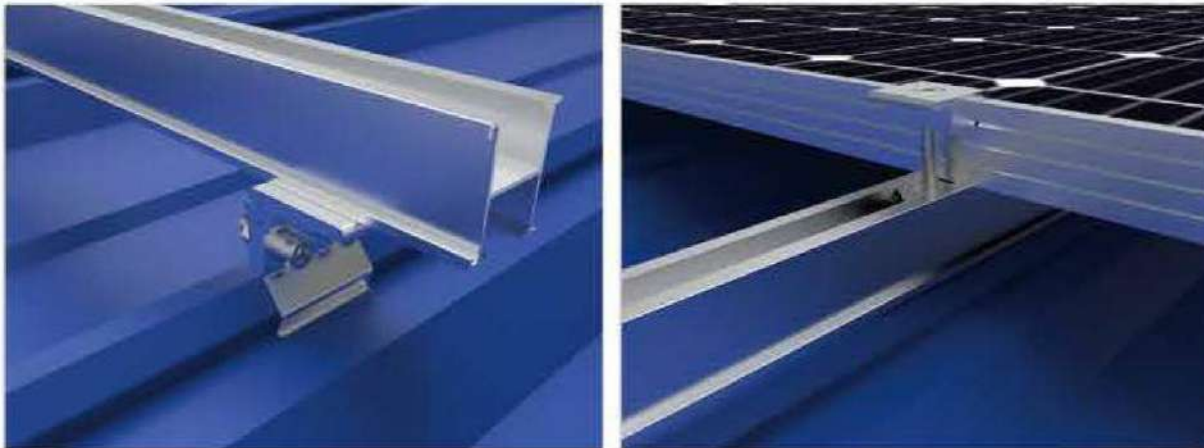
Customized roof clamp if you can provide the dimension of roof.



Tin Roof Mounting System - Vertical Roof Clamp B



Customized roof clamp if you can provide the dimension of roof.



ETNA tin roof mounting system accept customized roof clamp for your roofs. It provides a simple and economical solution for the installation of all the framed and frameless solar panels on the market. The simple and solid mounting structure enables it to make full use of the existing tin roof, and the highly efficient and dense components greatly increase the installed capacity, so as to achieve energy saving and emission reduction.

Installation Site: Tin Roof

Main Material: SUS304 and aluminum

Color: Natural

Surface treatment: anodized thickness 10um

Tilt angle: Flat, up to 60 degrees

Solar Panel: suitable for all solar panel

Array: according client's requirement

Height of building: up to 20meters

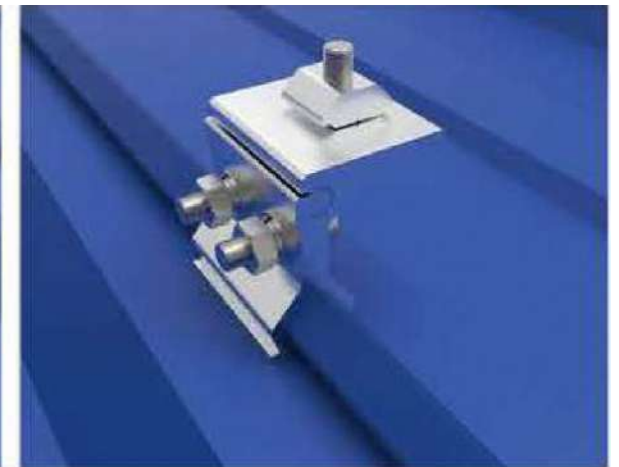
Standard: CE and AS/NZS 1170 & DIN 1055

Wind Load: 60m/s

Snow Load: 1.4kn/m²

Warranty: 10years

Duration: 25 years



Tin Roof Mounting System - U-Shaped Bracket



U-shaped bracket roof mounting system is designed for trapezoidal tin roof, which can be directly installed on the roof without solar rail, saving cost. easyt to install, widely uesed, It is suitable for large commercial and public solar systems, framed and frameless modules, and can be installed vertically or horizontally.

Safety and Stability

The system is designed by skilled designers and can meet the export standards of various countries. The components are made of high-quality aluminum alloy and stainless steel with long service life. The main mounting components are tested to ensure the strength, stability and safety.

Easy to Install

There are only 4-5 kinds of components in a system, and most of the accessories are pre assembled, which saves you time and money.

Universality

It is suitable for installing solar modules of any specification on residential or commercial projects.

Components



U-shaped Rail Horizontal

Material:
Aluminum
Stainless steel



U-shaped Rail Vertical

Material:
Aluminum
Stainless steel



Inter clamp

Material:
Aluminum
Stainless steel



End clamp

Material:
Aluminum
Stainless steel



Wood screw

Material:
Stainless steel



Self drilling screw

Material:
Stainless steel

Installation Site: Tin Roof
Main Material: SUS304 and aluminum
Color: Natural
Surface treatment: anodized thickness 10um
Tilt angle: Flat, up to 60 degrees
Solar Panel: suitable for all solar panel
Array: according client's requirement
Height of buliding: up to 20meters
Standard: CE and AS/NZS 1170 & DIN 1055
Wind Load: 60m/s
Snow Load: 1.4kn/m²
Warranty: 10years
Duration: 25 years



Adjustable Solar Bracket



Adjustable solar bracket is easy to install and has good stability. It allows the solar panels to be installed in the angle range of 10 to 15 degrees, 15 to 30 degrees and 30 to 60 degrees. it can be mount one solar panel or multiple solar panel.



TP-AD01: Adjustable Mounting System Height: 390~670mm

TP-AD02: Adjustable Mounting System Height: 310~510mm

Installation Site: Tin Roof

Main Material: SUS304 and aluminum

Color: Natural

Surface treatment: anodized thickness 10um

Tilt angle: Flat, up to 60 degrees

Solar Panel: suitable for all solar panel

Array: according client's requirement

Height of buliding: up to 20meters

Standard: CE and AS/NZS 1170 & DIN 1055

Wind Load: 60m/s

Snow Load: 1.4kn/m²

Warranty: 10years

Duration: 25 years



Triangle Mounting System



Triangle mounting system is easy to install and has good stability. It is widely used in concrete roof and tin roof. The simple and solid mounting structure enables it to make full use of the existing roof.

Safety and Stability

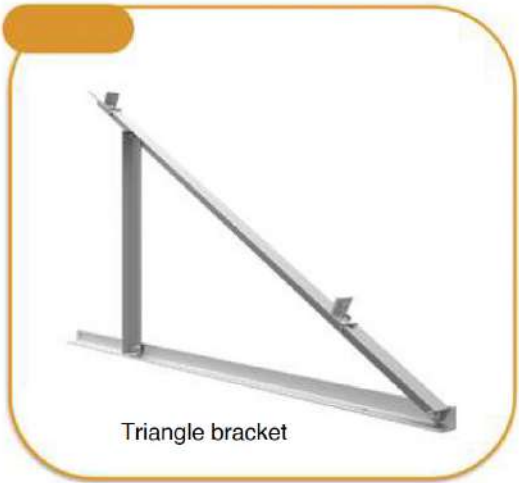
The system is designed by skilled designers and can meet the export standards of various countries. The components are made of high-quality aluminum alloy and stainless steel with long service life. The main mounting components are tested to ensure the strength, stability and safety.

Easy to Install

There are only 4-5 kinds of components in a system, and most of the accessories are pre assembled, which saves you time and money.

Universality

It is suitable for installing solar modules of any specification on residential or commercial projects.



Triangle bracket



Solar rail



Inter clamp



End clamp

Main Material: SUS304 and aluminum
Color: Natural
Surface treatment: anodized thickness 10um
Tilt angle: Flat, up to 60 degrees
Solar Panel: suitable for all solar panel
Array: according client's requirement
Height of buliding: up to 20meters
Standard: CE and AS/NZS 1170 & DIN 1055
Wind Load: 60m/s
Snow Load: 1.4kn/m²
Warranty: 10years
Duration: 25 years



Aluminum Ground Mounting System - N-type



Aluminum Ground Mounting System adopts all aluminum structure, which is suitable for concrete block foundation and ground screw, 10-15 μm anode oxidation treatment has excellent corrosion resistance, which makes it suitable for various complex large-scale engineering installation. The folding pre assembly design ensures the efficient construction on site, and the multi column design improves the stability of the system.

Quick Assembly

Convenient installation, short construction period, components have been pre installed in the factory to save installation time and cost.

Safety and Reliability

It is suitable for strong wind and heavy snow area. The ground screw structure ensures the system is firm and stable, and is suitable for different geological conditions. Especially the rock, frozen soil, desert, gravel and other dry and hard soil.,

Components



Applicable: Large scale ground solar power station

System: Ground support system n-type

Bracket material: Aluminum alloy

Module: Framed module or frameless film module

Module connection: Inter clamp/end clamp

Module array: Horizontal or vertical

Installation angle: 0-60degree

Wind load: 60M/S

Snow load: 1.4K/M²

Thickness of anodization: 10um or customized

Warranty: 10 years



Aluminum Ground Mounting System - W-Type



ETNA W-type ground mount system is mainly made of aluminum alloy, which is beautiful and light, with slot keel design, 10-15 um anodizing treatment ensures the high-strength anti-corrosion performance, adapts to various complex terrain, and provides solutions for medium and large power stations.



Components



Applicable: Large scale ground solar power station

System: Ground support system n-type

Bracket material: Aluminum alloy

Module: Framed module or frameless film module

Module connection: Inter clamp/end clamp

Module array: Horizontal or vertical

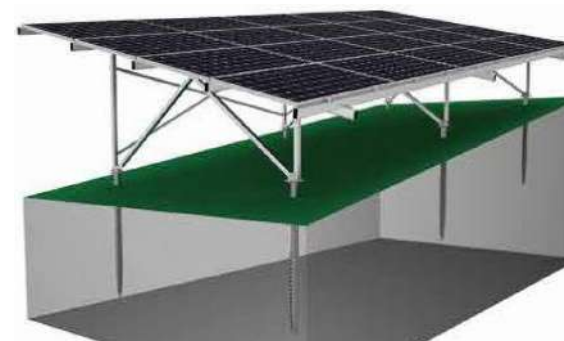
Installation angle: 0-60degree

Wind load: 60M/S

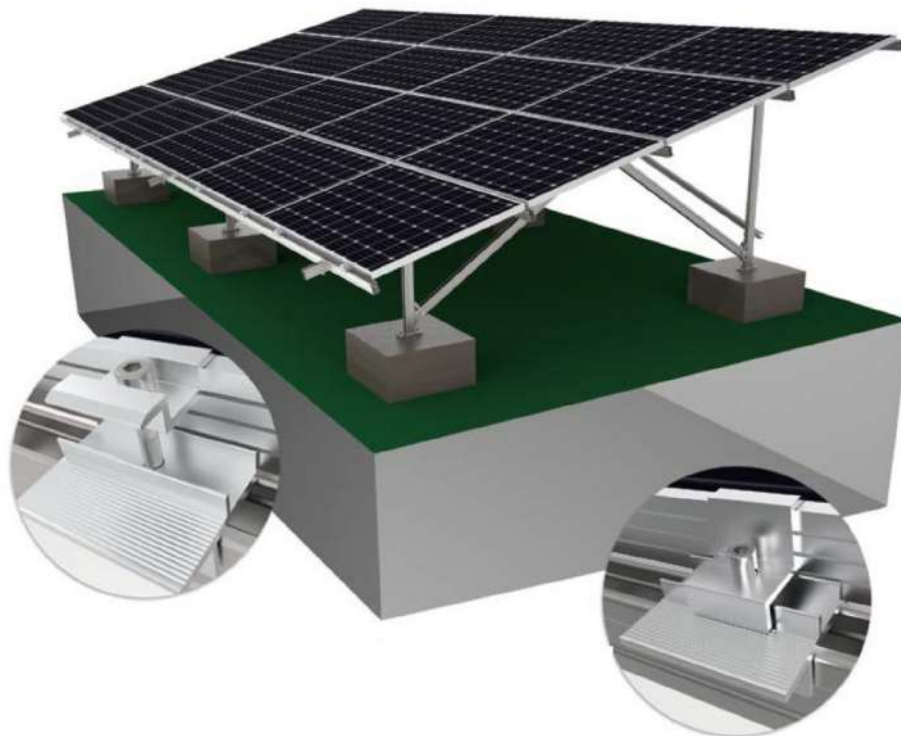
Snow load: 1.4K/M²

Thickness of anodization: 10um or customized

Warranty: 10 years



Double Pole Ground Mount



Concrete Block Foundation Double Pole Ground Mount is made of carbon steel, 80um hot dip galvanizing treatment has excellent corrosion resistance, which is suitable for large and medium-sized engineering installation. The folding pre installation design ensures the efficient construction on site, and the multi column design improves the stability of the system..

Quick Assembly

Convenient installation, short construction period, components have been pre installed in the factory to save installation time and cost.

Safety and Reliability

It is suitable for strong wind and heavy snow area. The ground screw structure ensures the system is firm and stable, and is suitable for different geological conditions. Especially the rock, frozen soil, desert, gravel and other dry and hard soil.,

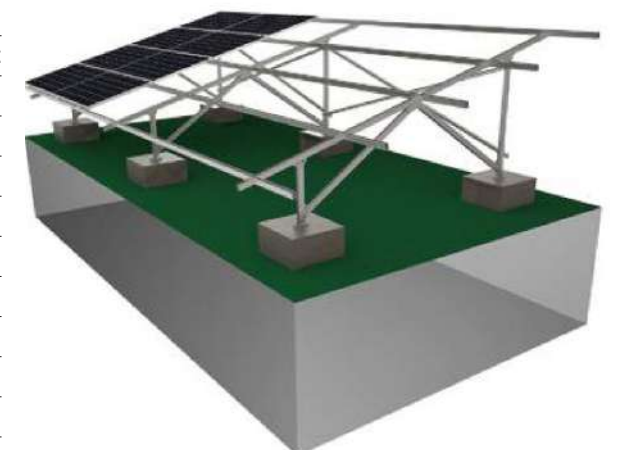
Components



Three Types Can Be Chosed



Applicable: Large scale ground solar power station
 System: Ground support system-double pole mount
 Bracket material: Steel and Aluminum alloy
 Module: Framed module or frameless film module
 Module connection: Inter clamp/end clamp
 Module array: Horizontal or vertical
 Installation angle: 0-60degree
 Wind load: 60M/S
 Snow load: 1.4K/M²
 Thickness of anodization: 10um or customized
 Warranty: 10 years



Single Pole Steel Ground Mounting System

The solar panel installation adopts Single Pole Steel Ground Mounting System. According to different situations, there are several solutions. The system is made of carbon steel and aluminum alloy, which has strong anti-corrosion performance and has been used outdoors for at least 25 years



The system can be applied to the horizontal and vertical installation of components, which greatly improves the installation flexibility of the system. The efficient utilization of materials and the increase of pole spacing according to the terrain conditions make the system more popular in large projects.



Advantage

Pole integrated design, convenient construction. The product has the advantages of high pre installation, simple installation, saving time and installation cost.

Single pole design, strong adaptability of project site, adjustable system angle. All carbon steel material design, outdoor use long and reliable.

- Applicable: Large scale ground solar power station
- System: Ground support system-single pole mount
- Bracket material: Steel and Aluminum alloy
- Module: Framed module or frameless film module
- Module connection: Inter clamp/end clamp
- Module array: Horizontal or vertical
- Installation angle: 0-60degree
- Wind load: 60M/S
- Snow load: 1.4K/M²
- Thickness of anodization: 10um or customized
- Warranty: 10 years

Solar Panel Pole Mounting System

Solar Panel Pole Mounting System is made of Q235 and aluminum alloy, with hot-dip galvanizing and anodizing treatment on the surface, which has good anti-corrosion. It's easier to install.



Advantage

- Q235 material, high strength, good stability;
- The size can be customized according to the needs of customers;
- Easy installation, less accessories, save installation time;
- Products meet export standards.



Pole Mount 4#



Pole Mount 6#

Applicable: Large scale ground solar power station
System: Pole Mounting Systemvv
Bracket material: Steel and Aluminum alloy
Module: Framed module or frameless film module
Module connection: Inter clamp/end clamp
Module array: Horizontal or vertical
Installation angle: 0-60degree
Wind load: 60M/S
Snow load: 1.4K/M²
Thickness of anodization: 10um or customized
Warranty: 10 years



Pole Mount 8#

Side of Pole Mounting System

Side of Pole Mounting System is made of high-strength aluminum alloy and stainless steel 304, with anodized surface and anti-corrosion, The service life is more than 25 years.



suitable for 1 pcs of width 100-680 mm solar panel,



TP-P1#B



suitable for 1 pcs of width 100 and 300mm solar panel



TP-P2#



suitable for 2 pcs of width 100-680mm solar panel

TP-P1#A



suitable for 1 pcs of width 100-680mm solar panel

Installation location: Outdoor

Main material: aluminum alloy

Surface: anodized

Service life: 25 years

Warranty: 10 years

Advantage

- Simple and flexible installation;
- Optimized material, careful design, stable structure;
- Surface anti-corrosion treatment, durable;
- Accept customization.

Agricultural Shed Solar Mounting

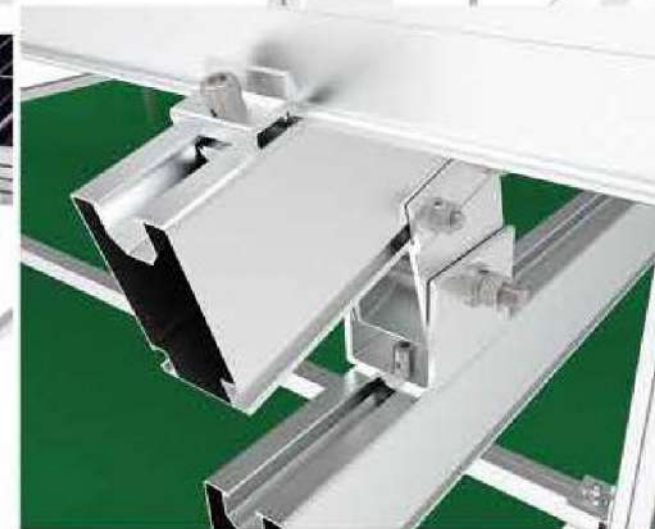
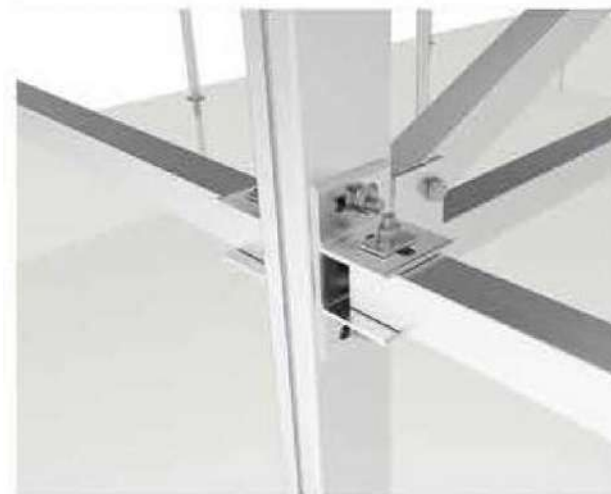
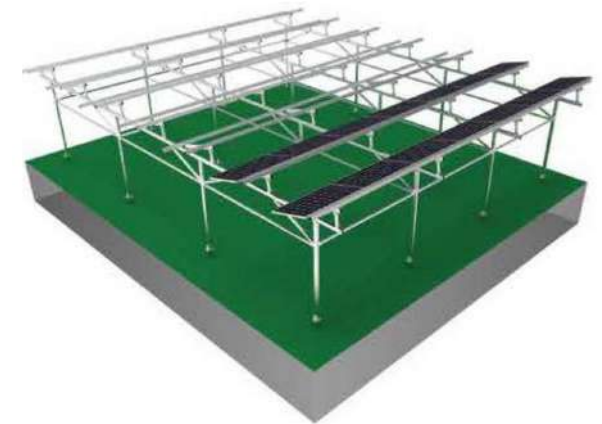
Solar agricultural shed mounting system is widely used in farm land with pile foundation. The solar panels can be arranged at different angles, and some gaps are left on both sides of the solar panels to meet the sunshine demand of crops.



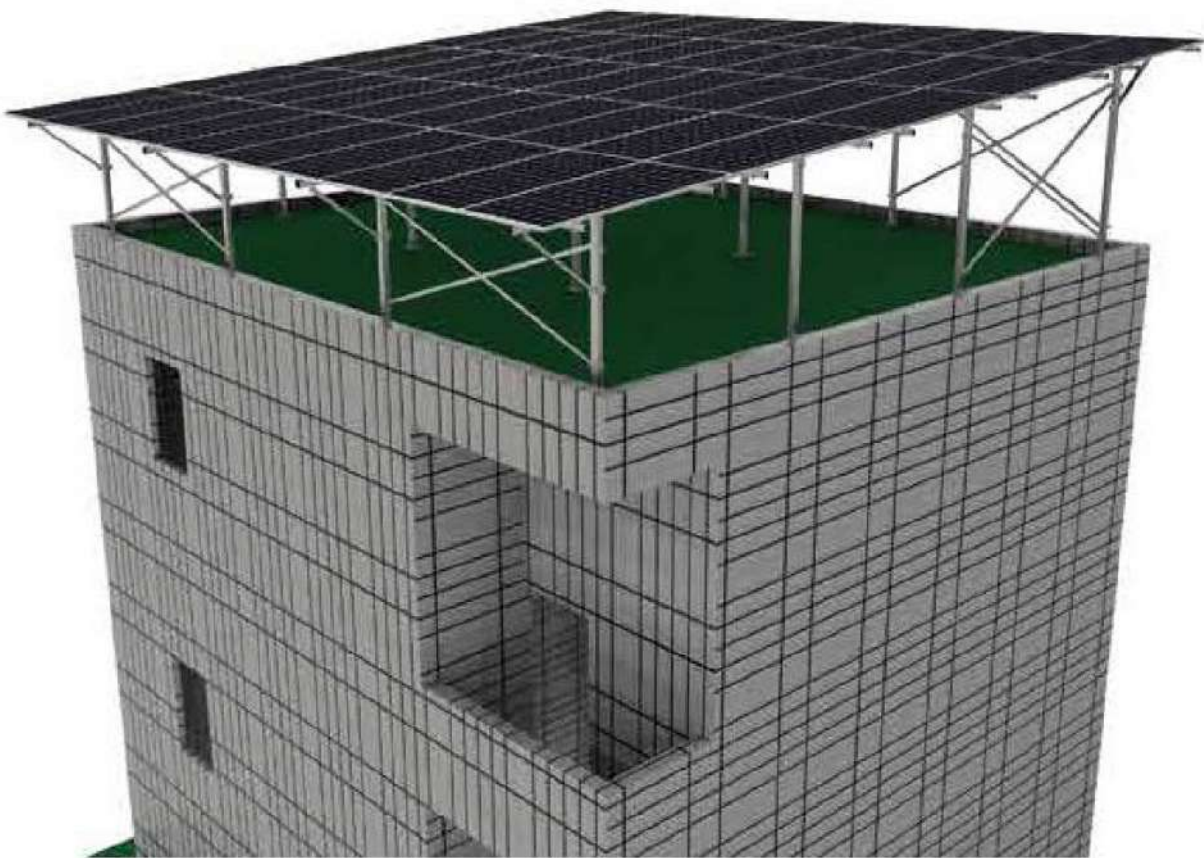
The light transmittance can be adjusted according to the demand to meet the growth of crops. High anti-corrosion performance to ensure long-term use. Ensure the construction demand of modern agricultural machinery and equipment. The height of the system can be adjusted to adapt to various complex terrain.



Fast construction, high construction precision;
High efficiency and light installation;
High strength aluminum alloy keel design;
Materials are environmentally friendly and recyclable



House BIPV Mounting System



House BIPV Mounting System adopts advanced design, which is widely used in various household cement flat roof installation. The components are supported by carbon steel columns and fixed on a 1.5m-2m high platform. It not only has heat insulation effect, but also can make full use of roof space to generate electricity.

Quality Assurance

It is made of high quality carbon steel with good anti-corrosion performance to ensure the service life of more than 25 years.

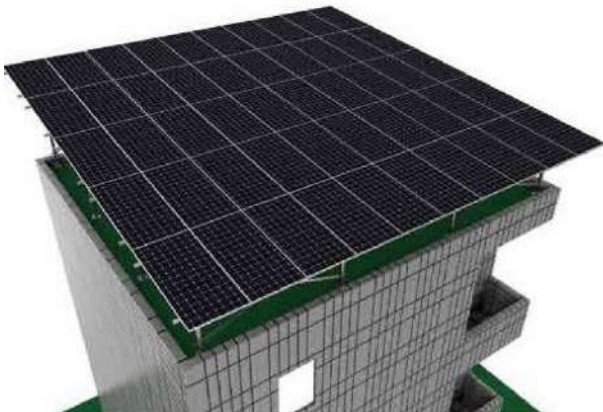
Widely Used

Suitable for all kinds of cement roof waterproof corner heat protection.

Components

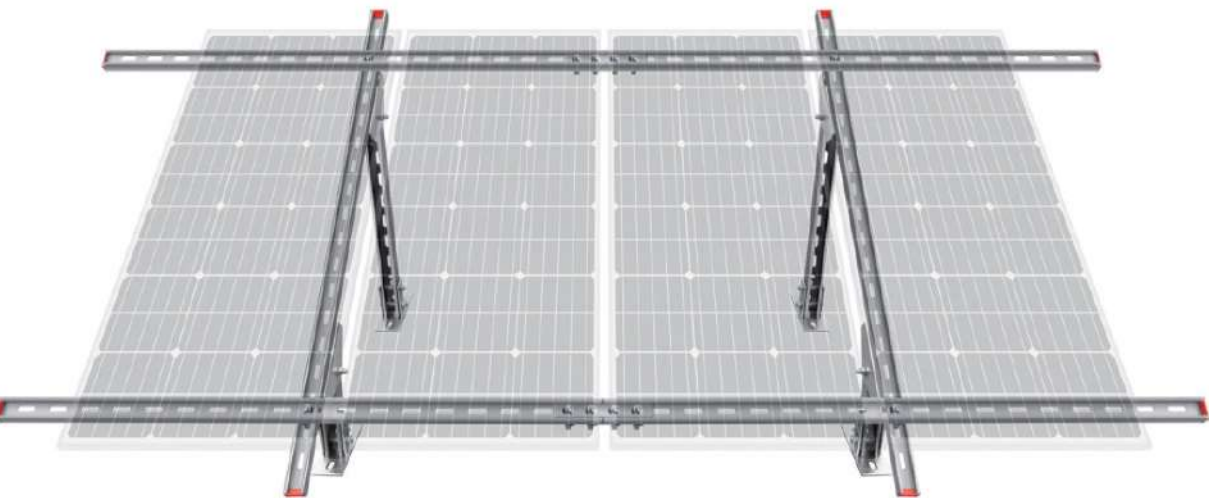


- Applicable system: household cement flat roof
- System type: sunshade mounting system
- Support material: Q235 carbon steel
- Module type: Framed PV panel
- Installation angle: 0-30 degrees
- Wind load: 45m/S
- Snow load: 1.4kn/m²
- Warranty: 10 years

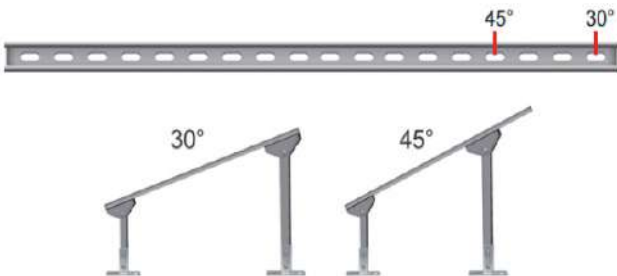


Adjustable Steel Solar Mounting system

Trip Solar Adjustable Steel Solar Panel Mounting Brackets fit 1-4 pcs solar. It's ideal for larger installations, such as ground, flat roofs, cabins, and backyard sheds. this solar panel mount can be applied anywhere except the pitched roof. Galvanized Steel construction, sturdy and durable. Three-legged structures make mounting steadily. You can put the battery, controller, and inverter at the backside of the mounting system. It can save lots of room and use of solar power systems easier. Adjustable angle from 18° to 30° degree, right angle for best solar power. Fixed on the ground resistant to wind and rain, well protect the solar panel, and easy to clean. The Multi-Panel Mount is compatible with the 100W monocrystalline, 120W monocrystalline, and 195W solar panels.



- Applicable system: except tile roof and tin roof
- System type: adjustable mounting system
- Support material: Q235 carbon steel
- Module type: Framed PV panel
- Wind load: 60m/s
- Snow load: 1.4kn/m²
- Warranty: 10 years



Components



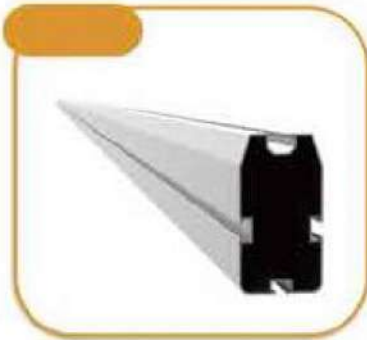
Basement	Triangle joint	Front Leg	Rear Leg
Beam	Rail	Rail Connector	Rail and Beam cap
End Clamp	Inter Clamp	Bolt & Expanding screw	Bolt and nut

Steel Carport Mounting System

ETNA solar carport is beautiful and economical. Using high quality steel, compared with the traditional carport, ETNA solar carport is more solid, more beautiful, but also can generate electricity, sunshade and rain.



Components



- Installation Site: outdoor
- Main Material: Aluminum and Q235
- Color: Natural
- Surface: anodized and hot dip galvanized
- Tilt angle: 0-15 degrees
- Solar Panel: suitable for all solar panel
- Array: according client's requirement
- Standard: CE and AS/NZS 1170 & DIN 1055
- Wind Load: 60m/s
- Snow Load: 1.4kn/m2
- Warranty: 10years
- Duration: 25 years



Aluminum Carport Mounting System

Aluminum alloy solar carport is made of high quality aluminum alloy, light weight, easy to install, surface anodizing, anti-corrosion and anti rust, with a service life of more than 20 years.
there are N-type and W-type



- Installation Site: outdoor
- Main Material: SUS304 and aluminum
- Color: Natural
- Surface treatment: anodized thickness 10um
- Tilt angle: 0-15 degrees
- Solar Panel: suitable for all solar panel
- Array: according client's requirement
- Standard: CE and AS/NZS 1170 & DIN 1055
- Wind Load: 60m/s
- Snow Load: 1.4kn/m²
- Warranty: 10years
- Duration: 25 years

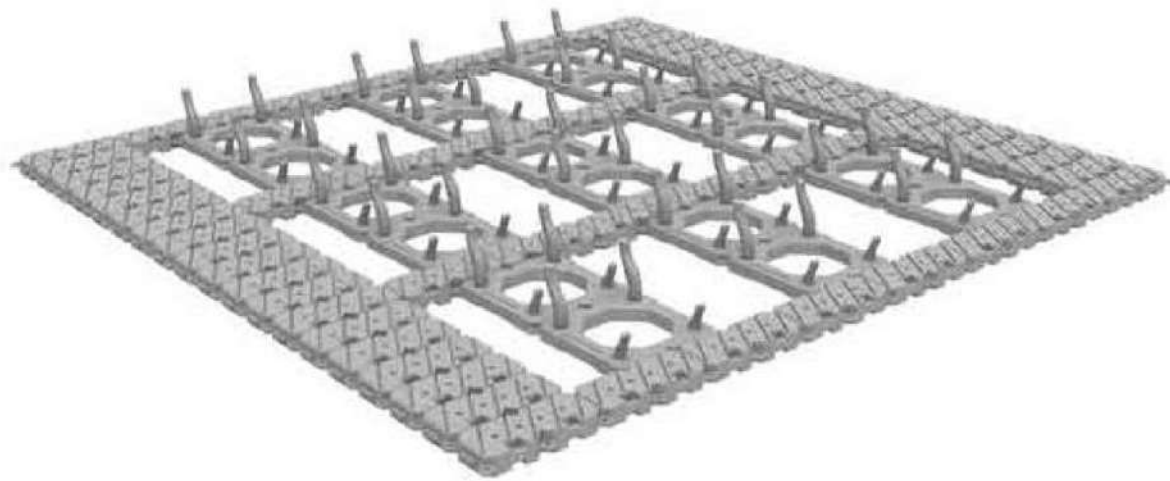


Components

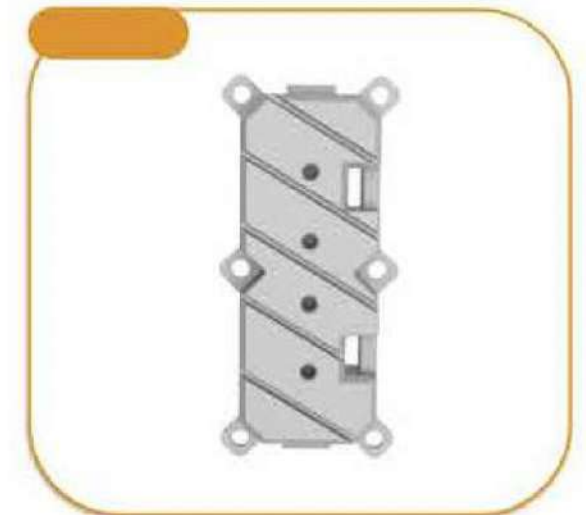
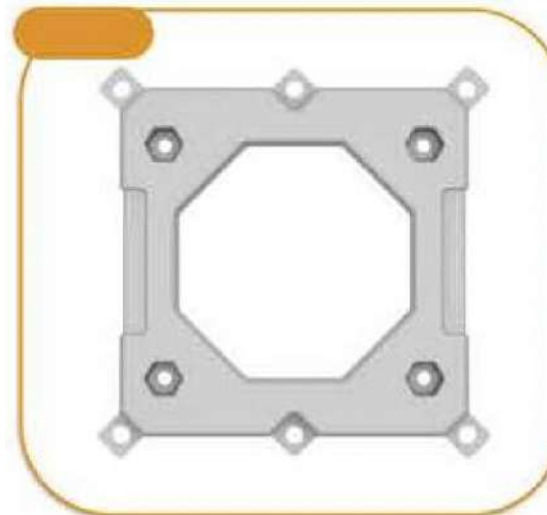


Solar Floating System

Solar floating system is built on the water surface, which does not occupy land resources. Water has cooling effect on solar panel, which can inhibit the surface temperature rise of modules, so as to obtain higher solar power



Components



Advantage

- Easy to clean and maintain;
- The angle and spacing of solar panel is consistent to reduce the cost of tracking system;
- Floating on the water surface can be used as a characteristic scenic spot to bring tourism benefits;
- The floating system can inhibit the propagation of algae in the water, which is beneficial to the water quality.

Install site: Lake, Pond

Angle: 15 degree

Material: HDPE

Wind Load: 40m/s

Snow Load: 1.4kn/m2

ABS Caravan Solar Mounting

ETNA ABS plastic solar bracket is suitable for the installation of solar panels on RV and yacht, and can also be used for the installation on flat roof. Its main features are: high strength, anti ultraviolet, high frequency insulation, performance, not affected by cold, hot and humid, easy installation and long service life, etc., using glue installation, without drilling, without damage to the surface of RV yacht.



TP-ABS-001



TP-ABS-002



TP-ABS-005



TP-ABS-006



TP-ABS-007



TP-ABS-008

Caravan Solar Spoiler Mounting



ETNA caravan solar spoiler mounting: ABS mounts and aluminum mounts, UV resistant, can drill or use glue to install, length can be customized.



TP-ABS-009
ABS Solar Panel Side Mounts,
2pcs per set,Black, 550mm



TP-ABS-010
ABS Solar Panel Side Mounts
2pcs per set,White, 550mm



TP-AMB-01
Aluminum mounting brackets 2pc,
670mm, natural, with 4 pcs cap.
(length can be customized),

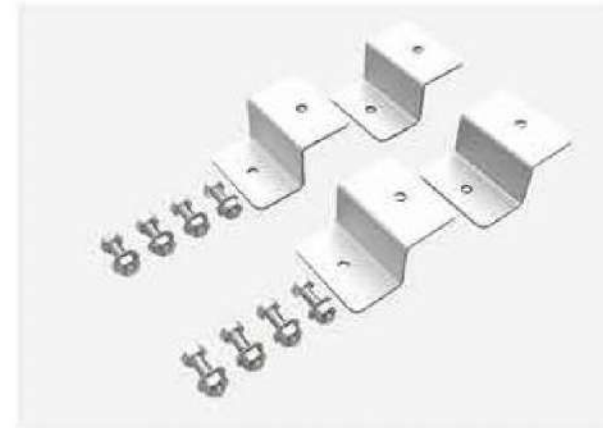


TP-AMB-02
Aluminum mounting brackets 2pc,
550mm, black, with 4 pcs cap.
(length can be customized),

- Installation Site: RV, bus, yacht, flat surface
- Main Material: ABS or aluminum
- Color: white, black, silver or customized
- Solar Panel: suitable for framed solar panel
- Wind Load: 60m/s
- Snow Load: 1.4kn/m²



Aluminum Z type Solar Panel Mounting



Aluminum Adjustable Triangle Bracket

Advantage

- Suitable for yacht, RV surface, flat surface;
- Easy to install;
- A variety of styles to choose;
- Anodization surface, anti-corrosion and anti rust;
- Aluminum material, light weight,
- convenient transportation.



Glazed Tile Roof Hook



TP-IK-01

Application

ETNA provides professional, easy to install, and widely used tile roof hook to be compatible with most tile roofs on the market.

Characteristic

Pre-assembly design, fast and convenient installation, SUS304 stainless steel material anti-corrosion, 10-year warranty, 25 years service.



TP-IK-02



TP-IK-03-A



TP-IK-04



TP-IK-05



TP-IK-06



TP-IK-07

Mounting Steps



Slate Tile Roof Hook



TP-IK-11



TP-IK-12

Asphalt Shingle Tile Roof Hook



TP-IK-13



TP-IK-14



Trapezoid Tin Roof Clamp



TP-CK-02

Aplication

ETNA provides professional, easy to install, and widely used tile roof hook to be compatible with most tile roofs on the market.

Characteristic

Pre-assembly design, fast and convenient installation, SUS304 stainless steel material anti-corrosion, 10-year warranty, 25 years service.



TP-CK-03



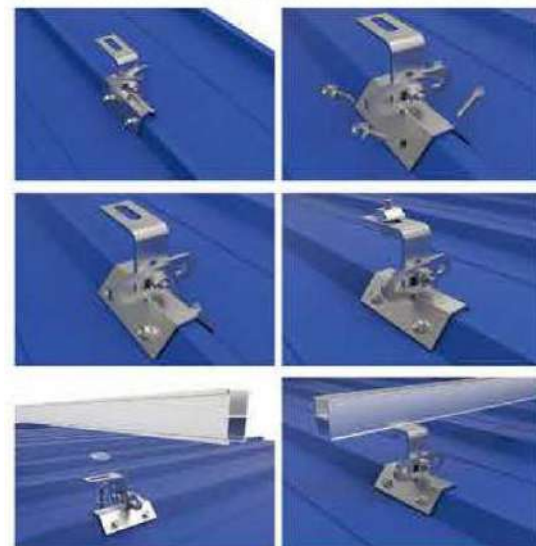
TP-CK-03-A



TP-CK-03-B



Mounting Steps



TP-CK-20



TP-CK-12



TP-CK-15



TP-CK-18



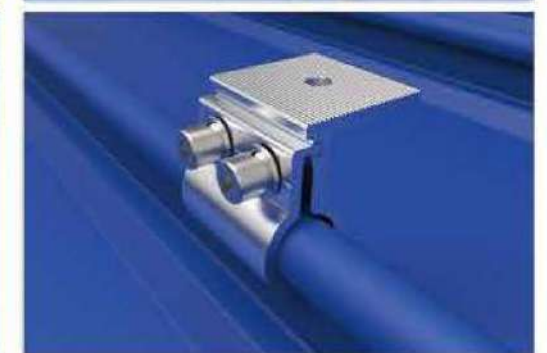
TP-CK-21



TP-CK-22



TP-CK-23



Solar Rail

TP-R01



Model number	Colour/surface treatment/Material	(width/height/length) mm
TP-R01-4200-N	Natural/min 10µm Anodized/AL6005-T5	28.89/50.6/4200
TP-R01-4200-B	BLACK/min 10µm Anodized/AL6005-T5	28.89/50.6/4200
TP-R01-4800-N	Natural/min 10µm Anodized/AL6005-T5	28.89/50.6/4800
TP-R01-4800-B	BLACK/min 10µm Anodized/AL6005-T5	28.89/50.6/4800
TP-R01-100-N	Natural/min 10µm Anodized/AL6005-T5	28.89/50.6/100
TP-R01-C	Natural/min 10µm Anodized/AL6005-T5	28.89/50.6/customized

TP-R01 is the most popular solar rail for the roof system, it can be continuous rail or 10 cm short rail

TP-R02



Model number	Colour/surface treatment/Material	(width/height/length) mm
TP-R02-4200-N	Natural/min 10µm Anodized/AL6005-T5	32/40/4200
TP-R02-4200-B	BLACK/min 10µm Anodized/AL6005-T5	32/40/4200
TP-R02-4800-N	Natural/min 10µm Anodized/AL6005-T5	32/40/4800
TP-R02-4800-B	BLACK/min 10µm Anodized/AL6005-T5	32/40/4800
TP-R02-C	Natural/min 10µm Anodized/AL6005-T5	32/40/customized

TP-R02 is solar rail for roof mounts with roof clamp

TP-R03



Model number	Colour/surface treatment/Material	(width/height/length) mm
TP-R03-120-N	Natural/min 10µm Anodized/AL6005-T5	33.6/26/120
TP-R03-120-B	BLACK/min 10µm Anodized/AL6005-T5	33.6/26/120
TP-R03-200-N	Natural/min 10µm Anodized/AL6005-T5	33.6/26/200
TP-R03-200-B	BLACK/min 10µm Anodized/AL6005-T5	33.6/26/200
TP-R03-C	Natural/min 10µm Anodized/AL6005-T5	33.6/26/customized

TP-R03 is most popular solar rail for trapezoidal roof mounts, 12cm, 20cm, 30cm and so on.

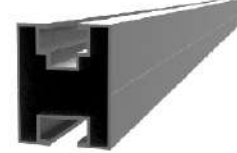
TP-R04



Model number	Colour/surface treatment/Material	(width/height/length) mm
TP-R04-4200-N	Natural/min 10µm Anodized/AL6005-T5	28.89/45/4200
TP-R04-4200-B	BLACK/min 10µm Anodized/AL6005-T5	28.89/45/4200
TP-R04-4800-N	Natural/min 10µm Anodized/AL6005-T5	28.89/45/4800
TP-R04-4800-B	BLACK/min 10µm Anodized/AL6005-T5	28.89/45/4800
TP-R04-100-N	Natural/min 10µm Anodized/AL6005-T5	28.89/45/100
TP-R04-C	Natural/min 10µm Anodized/AL6005-T5	28.89/45/customized

TP-R04 is second popular solar rail for roof system, it can be continuous rail or 10 cm short rail

TP-R05



Model number	Colour/surface treatment/Material	(width/height/length) mm
TP-R05-4200-N	Natural/min 10µm Anodized/AL6005-T5	30/38/4200
TP-R05-4200-B	BLACK/min 10µm Anodized/AL6005-T5	30/38/4200
TP-R05-4800-N	Natural/min 10µm Anodized/AL6005-T5	30/38/4800
TP-R05-4800-B	BLACK/min 10µm Anodized/AL6005-T5	30/38/4800
TP-R05-C	Natural/min 10µm Anodized/AL6005-T5	30/38/customized

TP-R05 is solar rail for roof mounts with roof clamp

TP-R06



Model number	Colour/surface treatment/Material	(width/height/length) mm
TP-R06-4200-N	Natural/min 10µm Anodized/AL6005-T5	36/50/4200
TP-R06-4200-B	BLACK/min 10µm Anodized/AL6005-T5	36/50/4200
TP-R06-4800-N	Natural/min 10µm Anodized/AL6005-T5	36/50/4800
TP-R06-4800-B	BLACK/min 10µm Anodized/AL6005-T5	36/50/4800
TP-R06-C	Natural/min 10µm Anodized/AL6005-T5	36/50/customized

TP-R06 is the most popular solar rail for roof mounts in the European market.

TP-R07



Model number	Colour/surface treatment/Material	(width/height/length) mm
TP-R07-4200-N	Natural/min 10µm Anodized/AL6005-T5	28.89/60.3/4200
TP-R07-4200-B	BLACK/min 10µm Anodized/AL6005-T5	28.89/60.3/4200
TP-R07-4800-N	Natural/min 10µm Anodized/AL6005-T5	28.89/60.3/4800
TP-R07-4800-B	BLACK/min 10µm Anodized/AL6005-T5	28.89/60.3/4800
TP-R07-C	Natural/min 10µm Anodized/AL6005-T5	28.89/60.3/customized

TP-R07 is a stronger and heavier version of our rail. It's made to withstand heavier loads and more severe weather conditions.

TP-R08



Model number	Colour/Material	(width/height/length) mm
TP-R07-41/21/5800	Natural/AZM Steel	41/21/5800
TP-R07-41/41/5800	Natural/AZM Steel	41/41/5800
TP-R07-41/52/5800	Natural/AZM Steel	41/52/5800
TP-R07-41/62/5800	Natural/AZM Steel	41/62/5800

TP-R08 is solar rail for the ground system.

Inter Clamp

TP-IC-A



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-A30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-A30B	BLACK			
TP-IC-A35N	Natural	35mm		
TP-IC-A35B	BLACK			
TP-IC-A40N	Natural	40mm		
TP-IC-A40B	BLACK			

TP-IC-A is the most popular end clamp for aluminum solar rail, shallow u clamp

TP-IC-B



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-B30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-B30B	BLACK			
TP-IC-B35N	Natural	35mm		
TP-IC-B35B	BLACK			
TP-IC-B40N	Natural	40mm		
TP-IC-B40B	BLACK			

TP-IC-B is the second popular end clamp for aluminum solar rail, deep u clamp

TP-IC-C



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-C30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-C30B	BLACK			
TP-IC-C35N	Natural	35mm		
TP-IC-C35B	BLACK			
TP-IC-C40N	Natural	40mm		
TP-IC-C40B	BLACK			

TP-IC-C is stronger and heavier version of our inter clamp

TP-IC-D



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-D30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-D30B	BLACK			
TP-IC-D35N	Natural	35mm		
TP-IC-D35B	BLACK			
TP-IC-D40N	Natural	40mm		
TP-IC-D40B	BLACK			

TP-IC-D is inter clamp for the film solar panel, the rubber can be adjustable according to the thickness of the module

TP-IC-E



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-E30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-E30B	BLACK			
TP-IC-E35N	Natural	35mm		
TP-IC-E35B	BLACK			
TP-IC-E40N	Natural	40mm		
TP-IC-E40B	BLACK			

TP-IC-E is the end clamp with plastic part for steel solar rail, plastic part will make the installation easier, shallow u clamp

TP-IC-F



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-F30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-F30B	BLACK			
TP-IC-F35N	Natural	35mm		
TP-IC-F35B	BLACK			
TP-IC-F40N	Natural	40mm		
TP-IC-F40B	BLACK			

TP-IC-F is the end clamp with plastic part for steel solar rail, plastic part will make the installation easier, deep u clamp

TP-IC-G



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-G30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-G30B	BLACK			
TP-IC-G35N	Natural	35mm		
TP-IC-G35B	BLACK			
TP-IC-G40N	Natural	40mm		
TP-IC-G40B	BLACK			

TP-IC-G is stronger and heavier version of our inter clamp, suitable for steel rail

TP-IC-H



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-IC-H30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-IC-H30B	BLACK			
TP-IC-H35N	Natural	35mm		
TP-IC-H35B	BLACK			
TP-IC-H40N	Natural	40mm		
TP-IC-H40B	BLACK			

TP-IC-H is the inter clamp with spring for steel solar rail, spring will make the installation easier.

End Clamp

TP-EC-A



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-EC-A30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-EC-A30B	BLACK			
TP-EC-A35N	Natural	35mm		
TP-EC-A35B	BLACK			
TP-EC-A40N	Natural	40mm		
TP-EC-A40B	BLACK			

TP-EC-A is the most popular end clamp for aluminum solar rail

TP-EC-B



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-EC-B25N	Natural	25mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-EC-B25B	BLACK			

TP-EC-B is clamp to cross connect two aluminum rail

TP-EC-D



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-EC-DN	Natural	6-8mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	400sets/carton
TP-EC-DB	BLACK			

TP-EC-D is end clamp for the film solar panel, the rubber can be adjustable according to the thickness of the module

TP-C-N



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-C-N25N	Natural	25mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	1000sets/carton

TP-C-N is for connecting the solar hook and solar rail

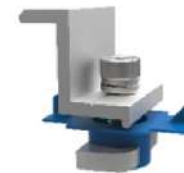
TP-EC-E



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-EC-E30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-EC-E30B	BLACK			
TP-EC-E35N	Natural	35mm		
TP-EC-E35B	BLACK			
TP-EC-E40N	Natural	40mm		
TP-EC-E40B	BLACK			

TP-EC-E is the most popular end clamp for steel solar rail

TP-EC-F



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-EC-F30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-EC-F30B	BLACK			
TP-EC-F35N	Natural	35mm		
TP-EC-F35B	BLACK			
TP-EC-F40N	Natural	40mm		
TP-EC-F40B	BLACK			

TP-EC-F is the end clamp with plastic part for steel solar rail, plastic part will make the installation easier.

TP-EC-G



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-EC-G30/35N	Natural	30mm/35mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-EC-G30/35B	BLACK			
TP-EC-G35/40N	Natural	35mm/40mm		
TP-EC-G35/40B	BLACK			

TP-EC-G is the end clamp that can suit two thicknesses of solar panels. suitable for steel rail

TP-EC-H



Model number	Colour	Dimension	Specs.	QTY/CARTON
TP-EC-H30N	Natural	30mm	Material: /AL6005-T5 Finish: min 10µm Anodized Hardware: Stainless Steel	500sets/carton
TP-EC-H30B	BLACK			
TP-EC-H35N	Natural	35mm		
TP-EC-H35B	BLACK			
TP-EC-H40N	Natural	40mm		
TP-EC-H40B	BLACK			

TP-EC-H is the end clamp with spring for steel solar rail, spring will make the installation easier.

Cable Clip / Tie

TP-CC-001



- Cable clip
- Stainless Steel SUS304
- Suitable for 1-2 pcs cable
- Connect the solar panel and cable

TP-CC-002



- Cable clip
- Stainless Steel SUS304
- Suitable for 1-4 pcs cable
- Connect the solar panel and cable

TP-CC-003



- Cable clip
- Stainless Steel SUS304
- Suitable for 1-4 pcs cable
- Connect the solar panel and cable

TP-CC-004



- Cable clip
- Stainless Steel SUS304
- Suitable for 1-2 pcs cable
- Connect the solar panel and cable, also can connect plate and cable

TP-CC-005



- Cable clip
- Stainless Steel SUS304
- Suitable for 1-4 pcs cable
- Connect the solar panel and cable

TP-CC-006



- Cable tie
- Stainless Steel SUS304
- Suitable for many cable
- Connect the solar panel and cable, or connect rail and cable

TP-SS46-250N	4.6*250mmSUS304	Natural
TP-SS46-250B	4.6*250mmSUS304	Black coated
TP-SS46-350N	4.6*350mmSUS304	Natural
TP-SS46-350B	4.6*350mmSUS304	Black coated

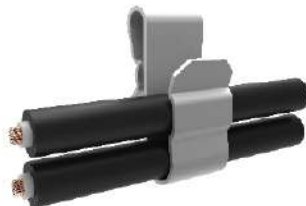
TP-CC-007



- Cable tie
- Nylon, black/white/colourful
- Suitable for many cable
- Connect the solar panel and cable, or connect rail and cable

2.5x100mm	3.6x150mm	4.6x150mm	7.6x200mm	9x400mm
2.5x150mm	3.6x200mm	4.6x200mm	7.6x250mm	9x450mm
2.5x200mm	3.6x250mm	4.6x250mm	7.6x300mm	9x500mm

TP-CC-008



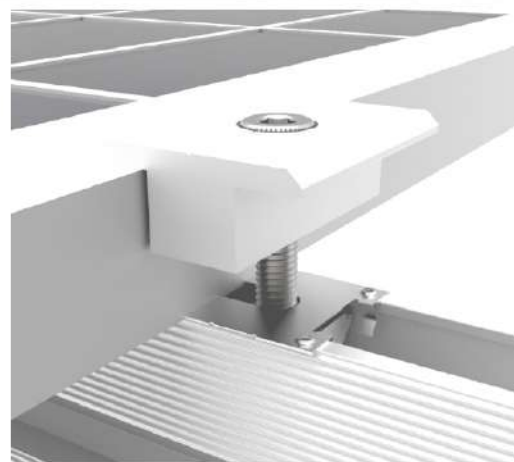
- Cable clip
- Manganese
- Suitable for 1-2 pcs cable
- Connect the solar panel and cable, also can connect plate and cable

Grounding Weeb

TP-GC-001



- Grounding weeb
- Stainless Steel SUS304
- 32 x 30.12mm
- match with solar clamp to connect the rail and solar panel



TP-GC-002



- Grounding weeb
- Stainless Steel SUS304
- 51 x 28mm
- match with solar clamp to connect the rail and solar panel

TP-GC-003



- Grounding weeb
- Stainless Steel SUS304
- 50 x 40mm
- match with solar clamp to connect the rail and solar panel

TP-GC-004



- Grounding weeb
- Stainless Steel SUS304
- ≈ 44 mm
- match with solar clamp to connect the rail and solar panel

Accessories

Ground Lug



- Ground Lug
- Hardware: Stainless Steel
- Main Material 3 choice:
 1. Aluminum
 2. Copper
 3. Copper tin plating

Bonding jumper

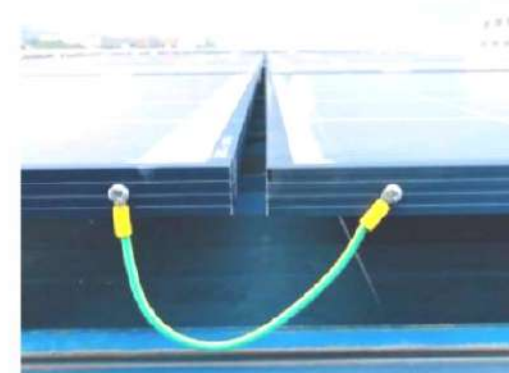


- Main Material 3 choice:
 1. Copper tin plating
 2. Copper
 3. Stainless steel

Grounding wire



- Solar yellow green grounding wire 4 sqmm/ 6sqmm
- connect two solar panel
- connect two rail



Cable Connector

TP-MC-01



Rated current	30A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB / UL94-V0
Cable Size	2.5mm², 4mm², 6mm²

TP-MC-02



Rated current	50A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB / UL94-V0
Cable Size	2.5mm², 4mm², 6mm²

TP-MC-03



Rated current	50A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB/UL94-V0
Cable Size	2.5mm², 4mm², 6mm²

TP-MC-04



Rated current	30A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB/UL94-V0
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

MC4

TP-MC-07



Rated current	30A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB/UL94-V0
Cable Size	4mm²or 6mm²

TP-MC-1Y2



Rated current	30A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB/UL94-V0
Cable Size	2.5mm², 4mm², 6mm²

TP-MC-1Y3



Rated current	30A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB/UL94-V0
Cable Size	2.5mm², 4mm², 6mm²

TP-MC-1X



Rated current	30A
Rated voltage	1500V DC(IEC)
Ambient temperature range	-40° C~90° C(IEC)
Degree of protection	IP67 mated
Contact resistance of plug connectors	0.5mΩ
Contact material	Cooper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Frame class	UL 94-HB/UL94-V0
Cable Size	2.5mm², 4mm², 6mm²