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**SOLAR
MOUNTING
SYSTEMS**

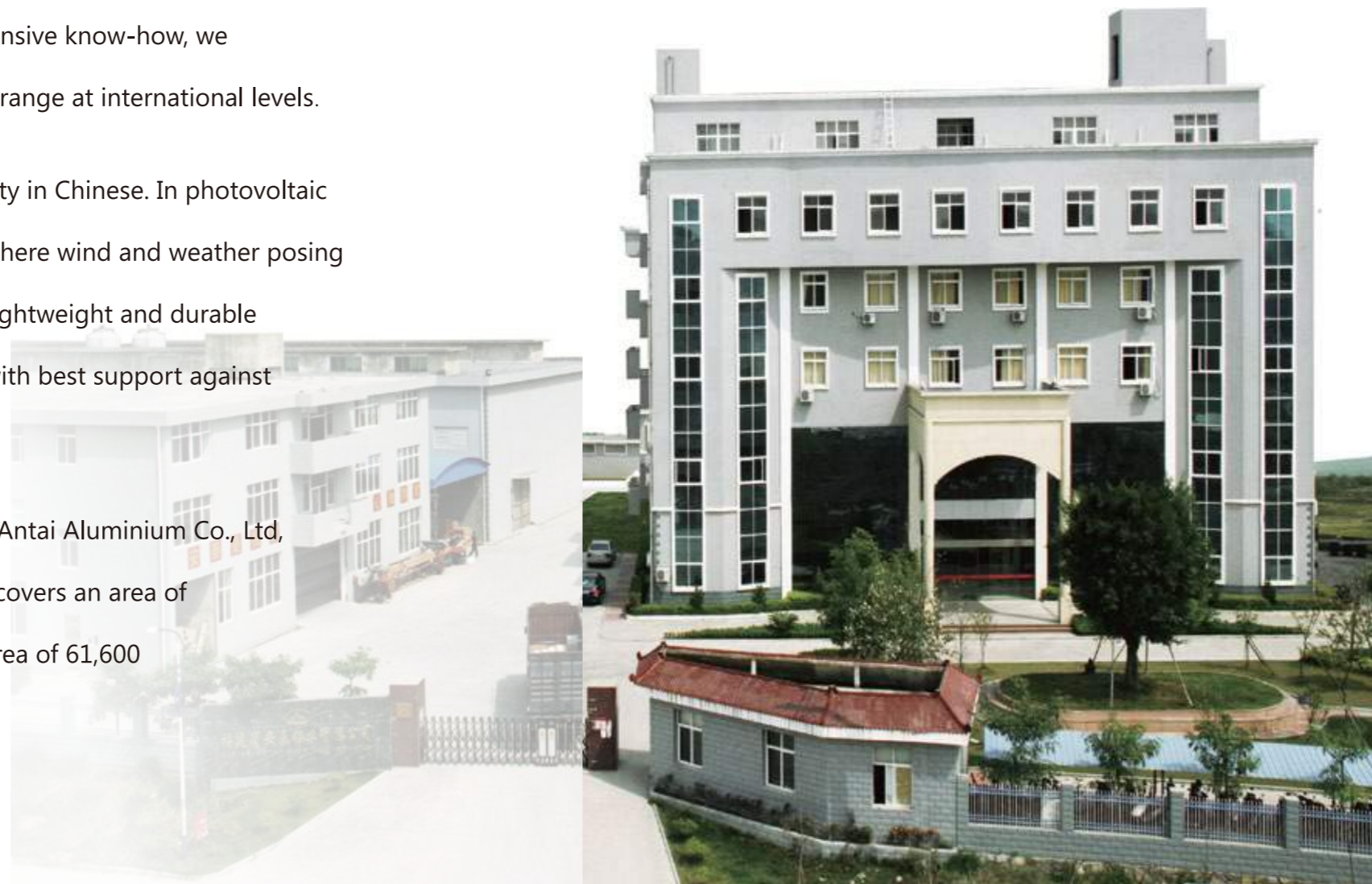
Catalogue / 2017

About “US”

Antaisolar is one of the largest photovoltaic mounting system providers in China. Since 2009, we have been specializing in providing solutions for installing solar photovoltaic systems. We develop and produce solid mounting systems easily fitted to all types of roof and ground. With the extensive know-how, we accomplished large scale projects in the megawatt range at international levels.

The name Antai is translation of security and stability in Chinese. In photovoltaic installations which last over decades, in locations where wind and weather posing challenge, solid reliability is essential. Our quality, lightweight and durable mounting systems provide photovoltaic modules with best support against the force of nature.

Antaisolar is 100% subsidiary of Fujian Zhangzhou Antai Aluminium Co., Ltd, total investment over 120 million RMB since 2006, covers an area of 70,000 square meters, including the construction area of 61,600 square meters, employees over 300.

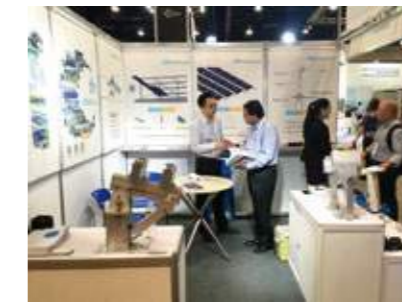
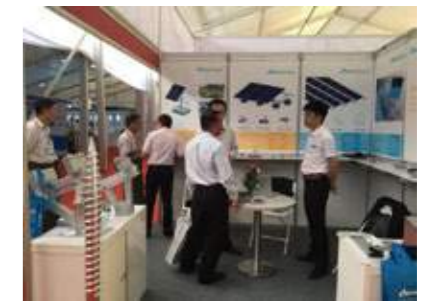
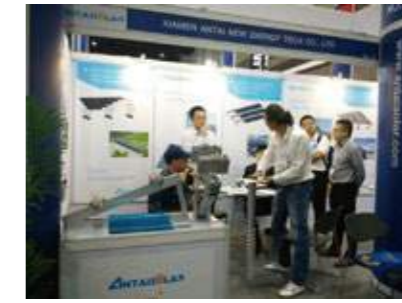
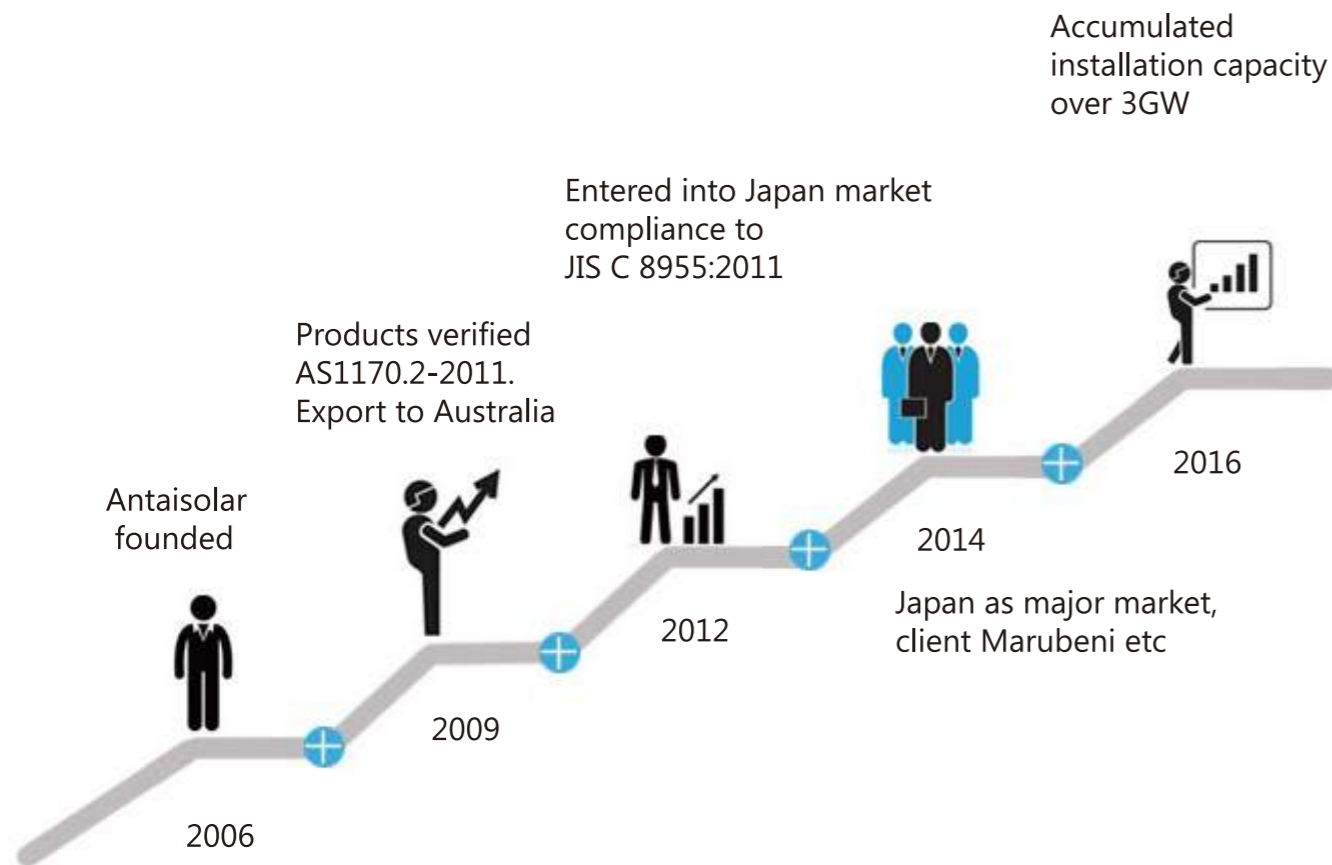


Ten years focus

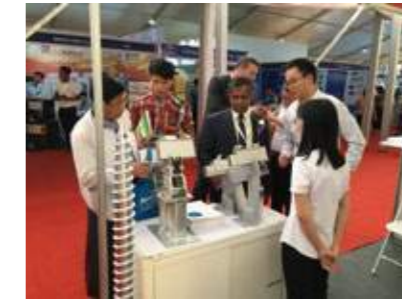
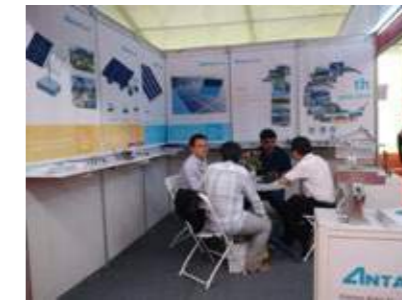
always be your solar support



Milestones



Exhibitions & Events



- ASEAN Sustainable Energy Week
- PV JAPAN 2016 in Yokohama
- Myanenergy 2016 in Yangon
- SPI 2016 in Las Vegas
- PV EXPO 2016 in Osaka
- PV JAPAN 2017 in Yokohama
- Summer outing

Production

Antaisolar strive towards high operational efficiency. We operate manufacturing facilities in China covering 61600 square meters and more than 10 automated production lines. From raw material (aluminium ingots) to final packing, Antaisolar stick to highly quality control during the whole processing.



Aluminum ingots



Melting furnace



Aluminum extrusion



Molding



Punching



Anodizing treatment



Powder coating



Fine machining



Aging furnace



Monthly production capacity
120MW **80MW**
Roof mount Ground mount



CASE ● Roof mount



1: Metal roof mount - Australia
2: Railless metal roof mount - Japan
3: Triangle roof mount - Korea
4: Metal roof mount - Cambodia



CASE ● Ground mount



1: SC ground mount - Myanmar
2: CG ground mount - Vietnam
3: NW ground mount - Japan
4: Pile ground mount - Japan





Features

Application	Trapezoidal sheet, sandwich roofing, standing seam
Min. sheet thickness	0.8mm minimum
Roof slope	Up to 12°
Building height	Up to 20m
Wind speed	Up to 60m/s(216kmh/133mph)
PV module	Framed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304, 410
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

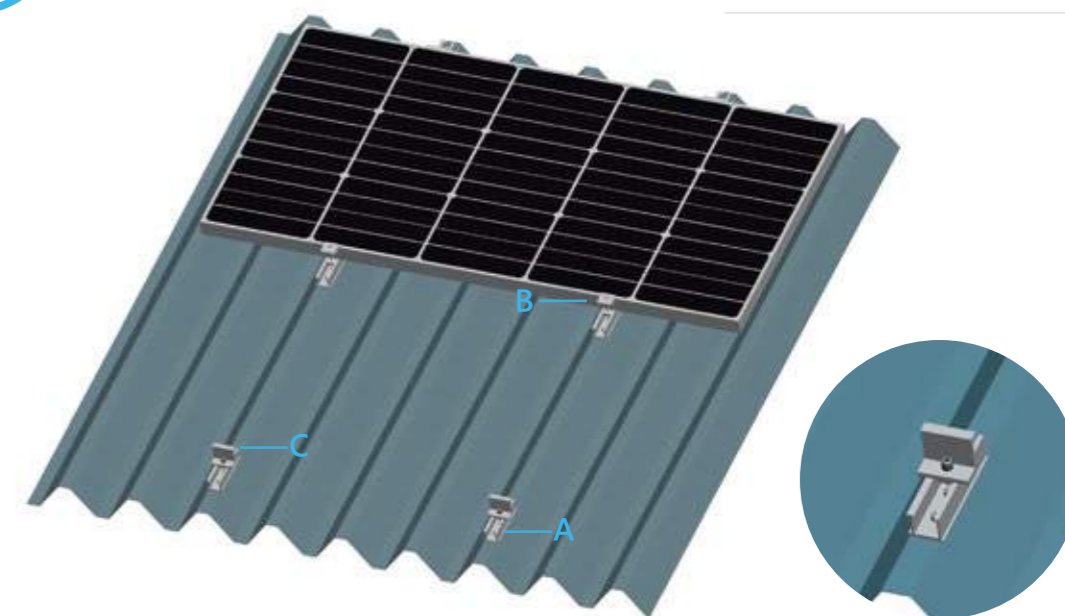
Light, small
and easy mounting
on trapezoidal
metal sheet

The railless system facilitates the rapid mounting of framed PV modules on trapezoidal metal sheet roofs with minimum thickness 0.8mm, only four components are required to install the modules directly to the roof. A base mounting clip is 100mm or 140mm long, therefore easy to carry and attach to almost all trapezoidal and sandwich roofs. The EPDM sheet is in the package to seal the screw against the metal sheet.

Railless mounting system allows for easy logistics, cost-effective warehousing and easy mounting.

10 years
warranty

Railless metal sheet mounting system



Components



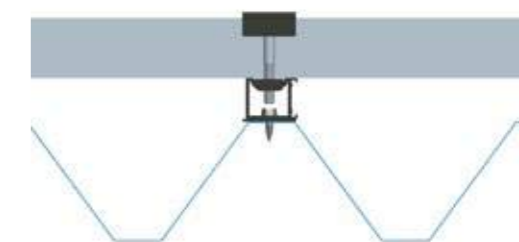
A : Roof attachment



B : Inter clamp



C : End clamp

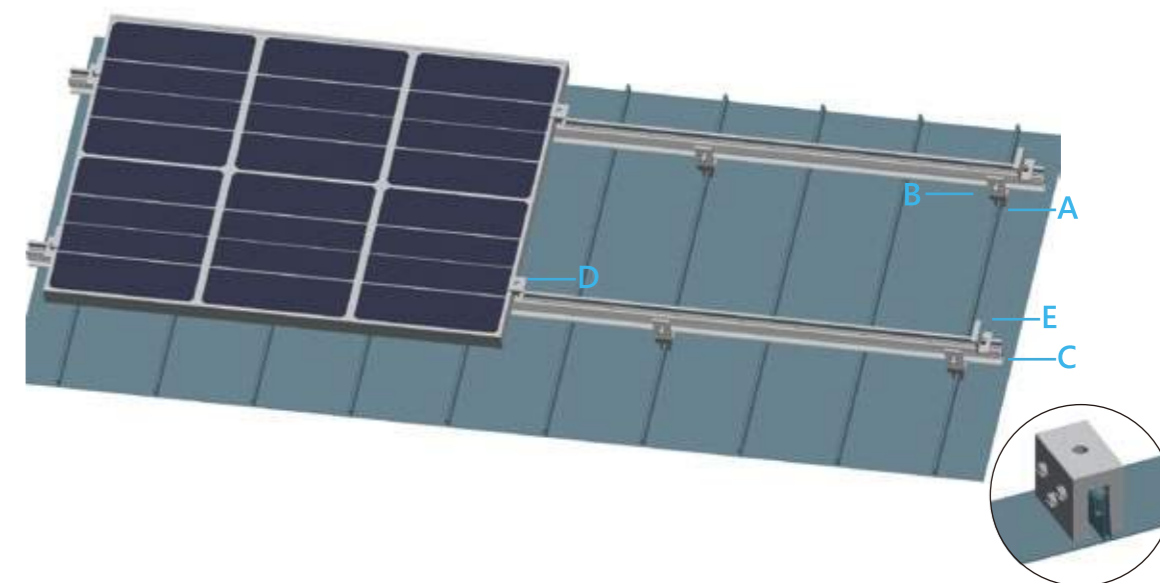


Side view



10 years warranty

Standing seam roof mounting system



Features

Application	Suitable for Lysaght® Kliplok® 406, 700, Lysaght® Locked seam®, Stramit® Speed Deck, Fielders®
Roof slope	Up to 45°
Min. sheet thickness	0.42mm minimum
Building height	Up to 20m
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Headache-free mounting solution for metal roofs with standing seam design

Components



A : Locked seam®



B : L foot



C : Rail



D : Inter clamp



E : End clamp



Kalzip®



Kliplok® 406



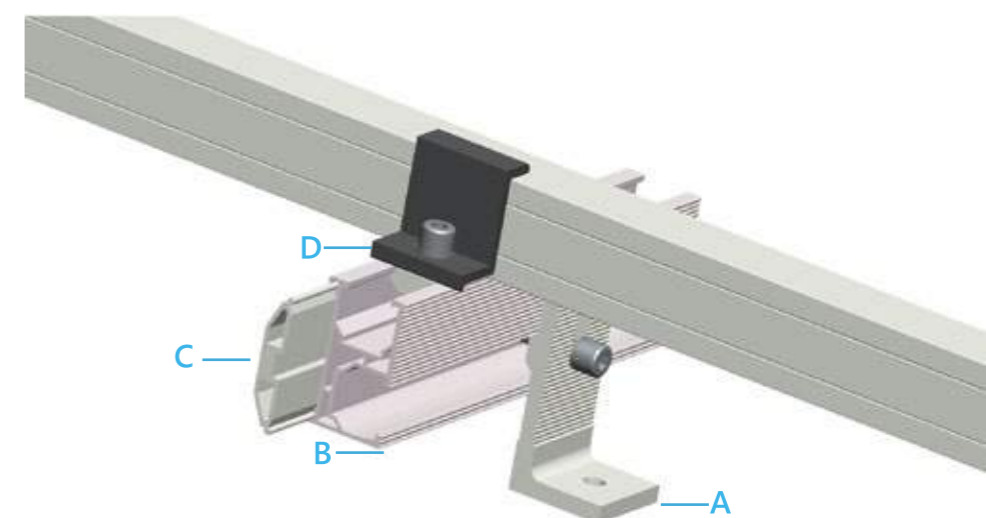
Kliplok® 700

The standing seam roof clamps make mounting on folded seam roof particularly easy. The clamps are simply attached to the standing seams. The clamps offer a secure fastening without penetrating the roof sheets, ensuring maximum stability with minimum weight. The variety of system combinations like L-foot, fixed foot or PV module clamp directly, allows it to be connected quickly to all rail components.



10 years warranty

Metal roof solar mounting system



Features

Application	Pitched roof
Roof Slope	Up to 45°
Building height	Up to 20m
Roof cladding	Suitable for most types of cladding
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Solid, versatile
for all
metal sheet roofs

The metal roof mounting system is suitable for roofing with corrugated sheet metal, trapezoidal metal sheet. L Feet, hanger bolt are available for foot options, making installation more fast, competitive and reliable. Systems are fully compliant with the Australian and other international standards on wind & snow load, making it suitable for a wide variety of climatic zones.

Components



A : L bracket

Use to secure rails through roofing material. Fix the L bracket(together with rubber pad) to the rafter using SUS 410 Screw.



B : Rail

Supporting PV modules, aluminum extrusion, length customizable. Connect the rail with L bracket by T-module and tighten the bolt.



C : Rail splice

Connect multiple rails together, forms a rigid joint. Slide the splices on the rear side of rail with the next rail segment.



D : End clamp

Providing bond from rail to module. Slide the end clamp tightly against the solar module and fasten tightly using the Allen bolt.

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Features

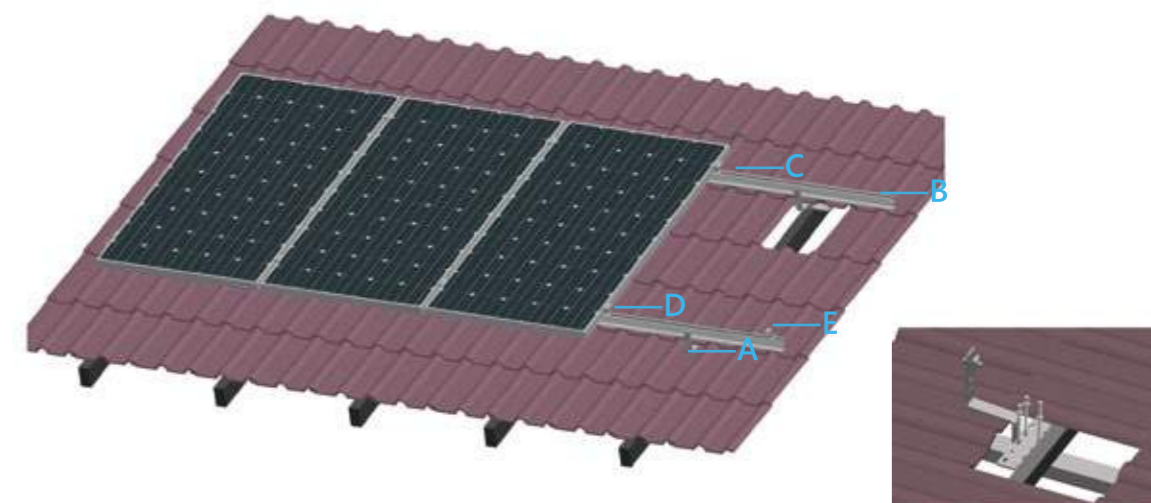
Application	Pitched roof
Roof Slope	Up to 45°
Building height	Up to 20m
Roof cladding	Suitable for most types of cladding
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Flexible, simple
clean on
different tile roofing

The tile roof solar mounting system offers perfect solution for installation on tile roofing, the roof fastening is done using highly-resistant stainless steel roof hooks, which is suitable for nearly all coverings, such as pantile, plain tiles, slate tiles. Systems are fully compliant with the Australian and other international standards on wind & snow load, making it suitable for a wide variety of climatic zones.



Tile roof solar mounting system



Components



A : Tile roof hook



B : Rail



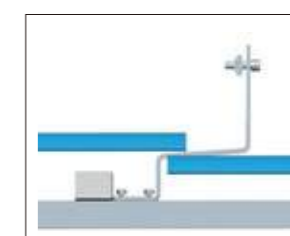
C : Rail splice



D : Inter clamp



E : End clamp

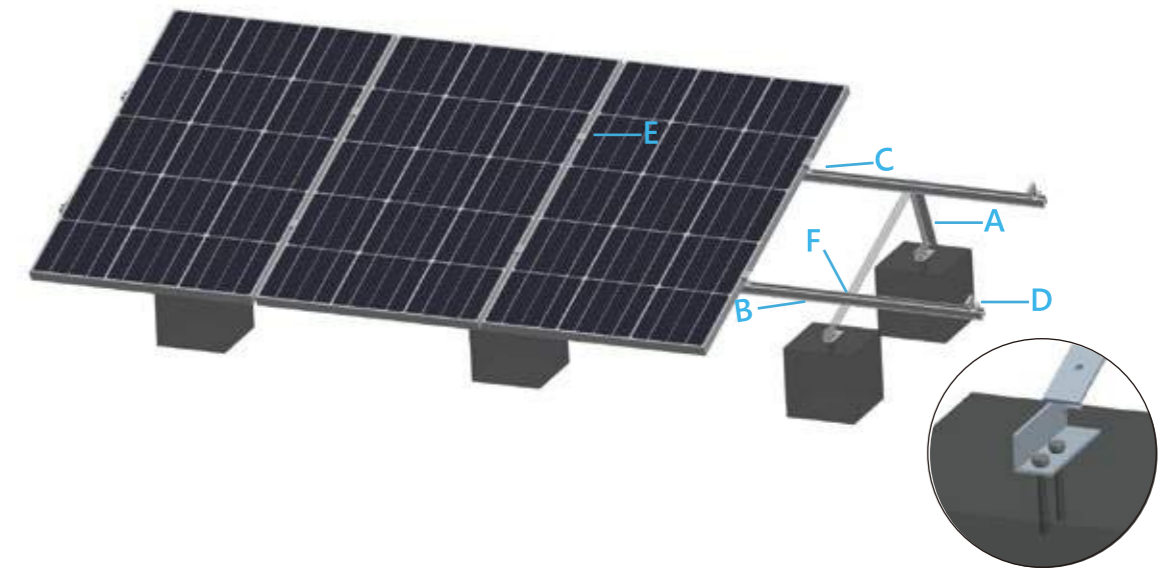


Side view



10 years
Warranty

Triangle flat roof mounting system



Features

Application	Flat roof, open terrain
Tilt angle	10°, 15°, 20°, 30°
Building height	Up to 20m
Snow load	Up to 99cm
Wind speed	Up to 60m/s(216kmh/133mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304, 410
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Most economical
flat roof
mount solution

Components



A : Triangle bracket



B : Rail



C : Rail splice



D : End clamp



E : Inter clamp



F : T-module

Antaisolar triangle mounting bracket is a newly developed product for flat rooftop installation, more cost-effective than the traditional bracket. With only two supporting angle aluminums, it can be installed without rail, or with rail. For mini power solar plant, it's recommended to design without rail, which helps to reduce the cost and simplify packing. Fold design allows for easy transportation. Railless mounting system allows for easy logistics, cost-effective warehousing and easy mounting.



10 years
Warranty

Features

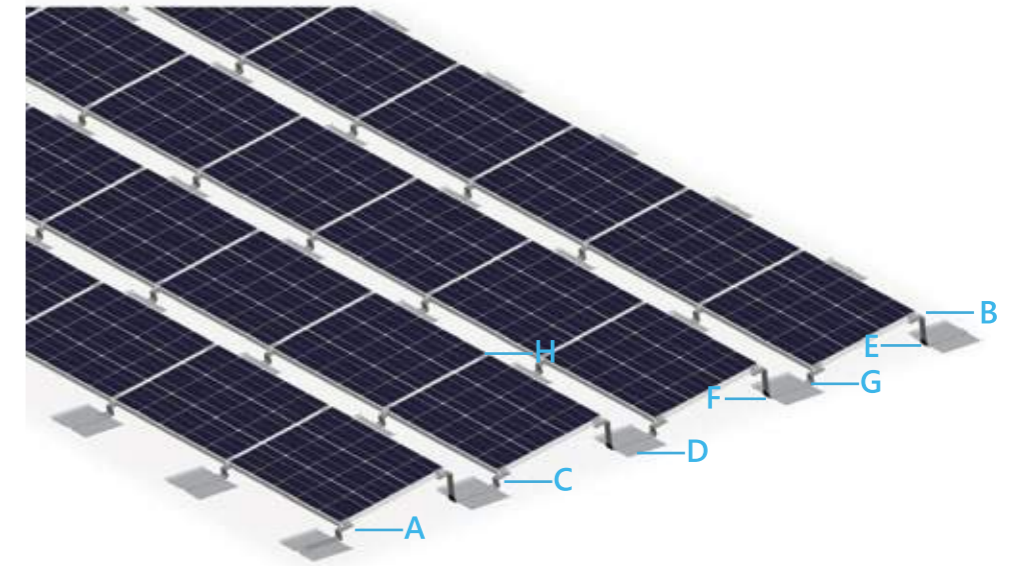
Application	Flat roof, landfill, open terrain
Tilt angle	5°, 10°
Inter-row spacing	400mm recommended
Building height	Up to 24m
Wind speed	Up to 60m/s(216kmh/133mph)
PV module	Framed, unframed
Module orientation	Landscape recommended
Material	Anodized aluminum 6005 T6 stainless steel 304, 410
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Best price value
available,
Q235 steel

The railless ballasted roof mounting system is suitable for commercial flat rooftops, a south-oriented racking solution for mounting framed modules on flat roofs with 5°, 10° mounting tilts. Variable ballasted weight allows for local wind rating requirements to be met on an individual basis. Eliminating rails equate to just a few boxes per system, without the inconvenience of long, cumbersome rails.

The simple and straightforward installation process of the system can save time and reduce the labor cost.

Rail-free ballasted flat mounting system



Components



A : Front support



B : Rear support



C : Inter support



D : Ballast tray



E : Protection mat
(Front and rear)



F : Protection mat
(Inter)



G: Buckle



H : Clamp



10 years
Warranty

Features

Application	Flat roof
Tilt angle	Fixed, 10-15°, 15-30°, 30-60°
Roof slope	Up to 45°
Building height	Up to 20m
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6, stainless steel 304, 410
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Adaptable, economical
mounting on almost
all flat roof coverings

The adjustable tilt flat roof mounting system will easily fit different flat roofs or open terrain applications, due to its variable tilt angle and footing options for both roof clamp and roof penetration. The solar system can be used as fixed tilt or adjustable tilt, allows for project-specific adjustments and optimize solar power output. The innovative design and high pre-assembly eliminate the need for on-site cutting, welding and enable quick and easy field PV module installation.

Adjustable tilt flat roof mounting system



Components



A : Front leg



B : Back leg



C : Rail



D : Rail splice



E : Inter clamp



F : End clamp



10 years warranty

Features

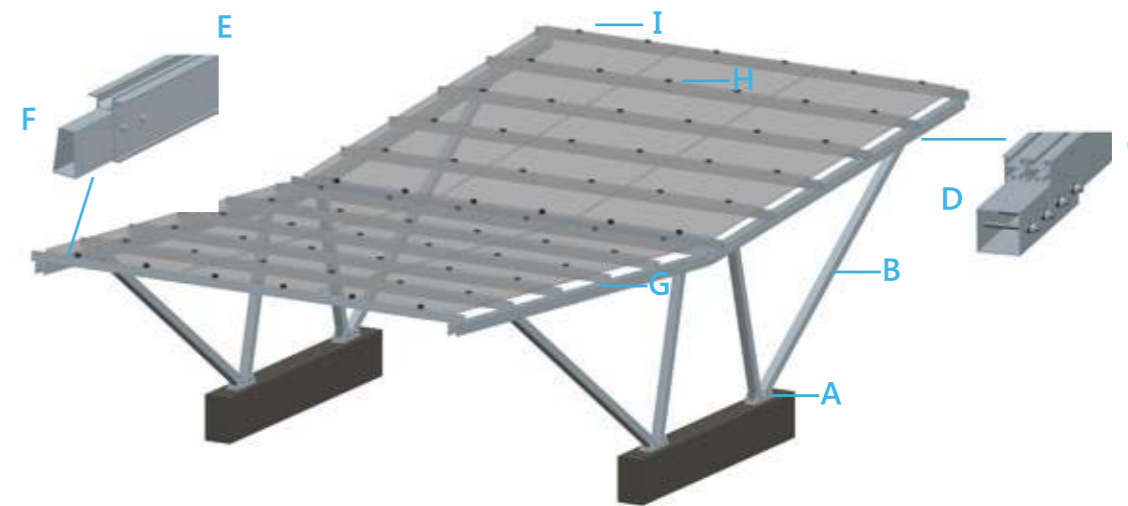
Application	Open terrain
Elevation angle	Recommend below 30°
Distance between footings	5000mm above
Snow load	Up to 150cm
Wind speed	Up to 60m/s(216kmh/133mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304, 410 Hot-dipped galvanized steel Q235B
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Economical
multi-function
structure for
solar purpose

Carport solar mounting system offers simplified and economic solution providing shade for parking and solar power generation, it is designed with different options for both single and double rows of parking, tailored for most module types, orientations, and inclinations. Various foundation options include precast concrete, bored pier and ground screw. Long spans between foundations reduce cost and simplify the installation process.

Solar carport is one of the fastest growing trend in photovoltaic market, effectively uses existing parking space, streamlined design making it ideal choice to present environmental friendly image or work as electrical vehicle charging station.

Carport solar mounting system



Components



A : Foot seat



B : Pole



C : Supporting Beam



D : Beam connector



E : Rail



F : Rail splice



G : Rail clamp



H : Inter clamp

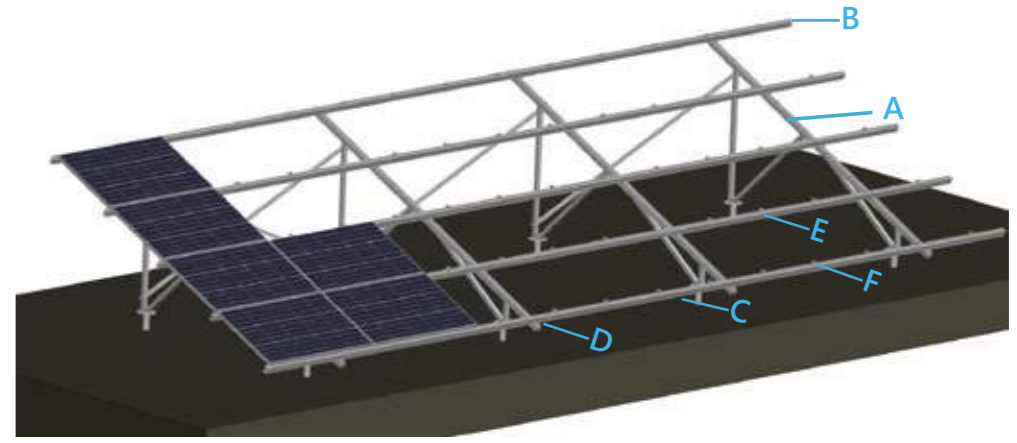


I : End clamp



SC ground mounting system

10 years warranty



Features

Application	Landfill, open terrain
Elevation angle	Up to 60°
Clearance	Up to request
Snow load	Up to 50cm
Wind speed	Up to 40m/s
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304 Hot-dipped galvanized steel Q235B
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

The most simplest and easy solutions for ground mount installation.

The SC ground mounting system is the most simplest and easy solutions designed for ground mount installations. There is no joint components between supporting beam and bracing, which makes the installation more simple and saves labor time. Made of aluminum, the system is an extremely anti-corrosion during its entire life span. It's the lowest cost one of ground mount system while the other requirements are satisfied. The design goes through strict calculation and analysis to ensure its strength and durability.

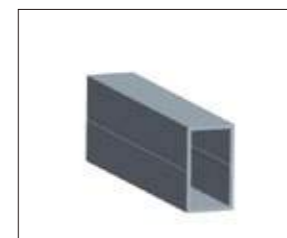
Components



A : Pre-assembled beam



B : Rail



C : Rail splice



D : Rail clamp



E : Inter clamp



F : End clamp



Side view



Foot view

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CG ground mounting system

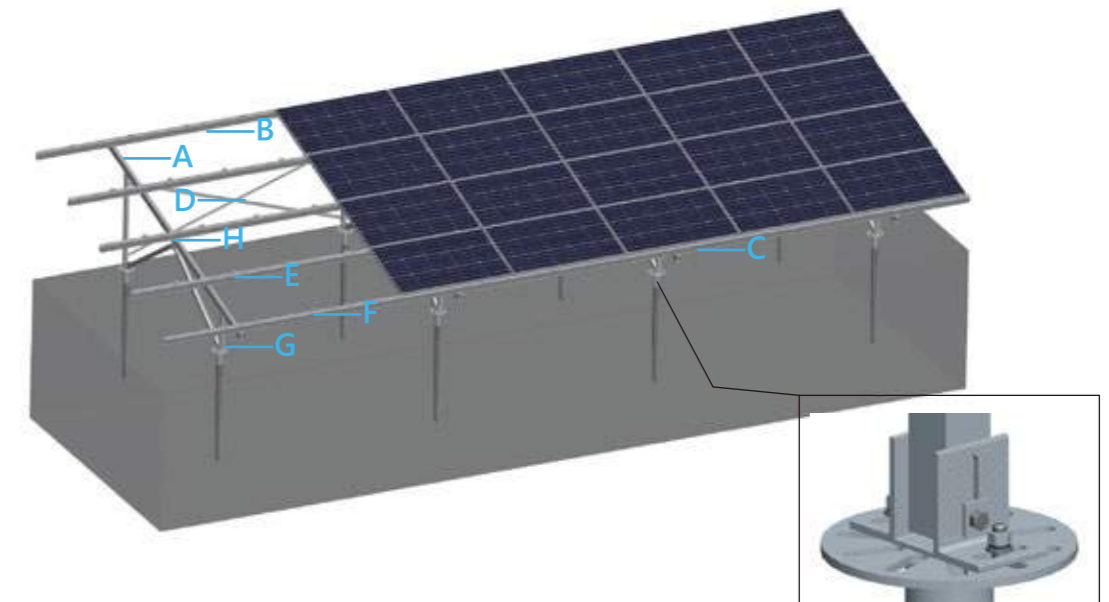
10 years warranty

Features

Application	Open terrain, landfill, and disposal
Elevation angle	Up to 60°
Distance between footings	Depending on load condition, refer to manual
Snow load	Up to 50cm
Wind speed	Up to 60m/s(216kmh/133mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304 Hot-dipped galvanized steel Q235B
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Cost optimized
aluminum
ground mount
solution

The CG ground mounting system is a cost optimized design based on NW, the supporting footing is delivered with highest pre-assembly to unfold at site. The optimized design is carried out by experienced engineers, this is important as high loads caused by wind and snow. It can use ground screw or concrete foundations, and its variable inclination and height makes plant design flexible. Anodized aluminum makes the whole system light but strong.



Components



A : Pre-assembled beam



B : Rail



C : Rail splice



D : Reinforcement aluminum



E : Inter clamp



F : End clamp



G : Foot seat

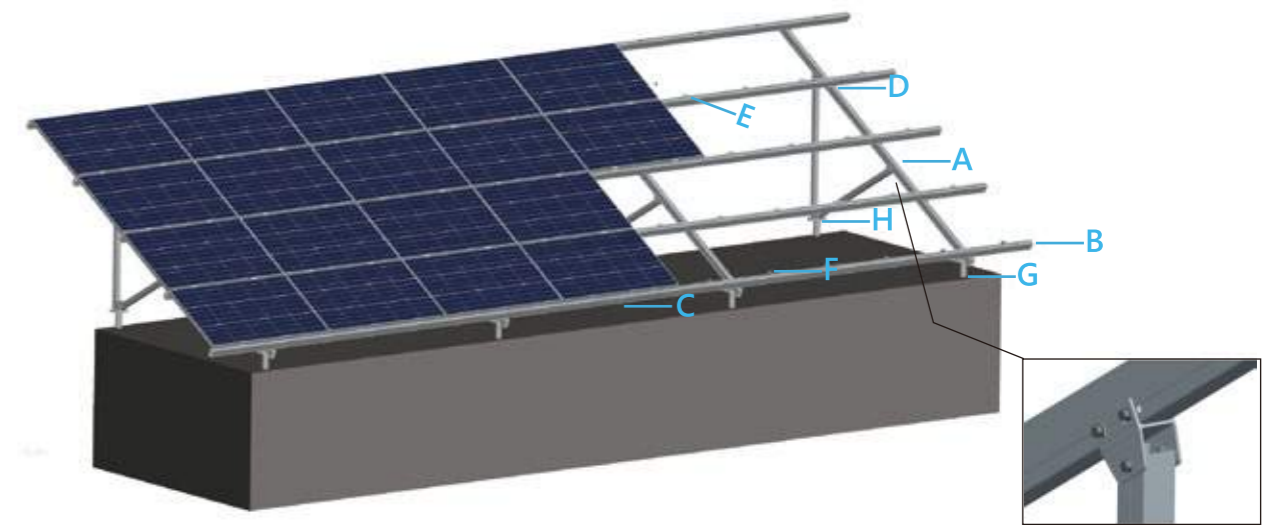


H : Rail clamp



NW ground mounting system

10 years warranty



Features

Application	Flat roof, landfill, open terrain
Elevation angle	Up to 60°
Distance between footings	Depending on load condition, refer to manual
Snow load	Up to 150cm
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304 galvanized steel Q235B
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Flexible, robust,
tailored for
different
ground conditions

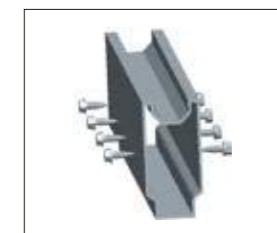
Components



A : Pre-assembled beam



B : Rail



C : Rail splice



D : Rail clamp



E : Inter clamp



F : End clamp



G : Ground screw



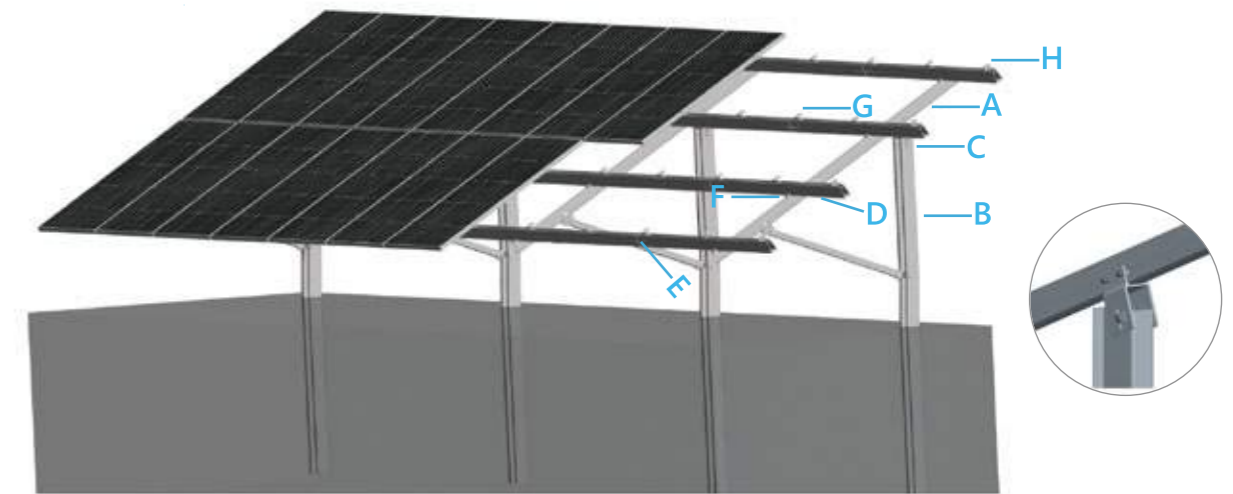
H : Foot seat

The NW ground mounting system is a convenient solution designed for ground mount installations, from commercial to utility level. The supporting beam is delivered pre-assembled, fast and easy at site and it's robust enough for high wind speed and snow loads. Made of aluminum, the system is an extremely low-maintenance system during its entire life span, and fully recyclable, aesthetically pleasing system ideal for quick installation.



Pile ground mounting system

10 years warranty



Features

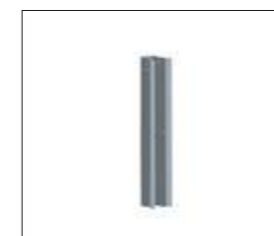
Application	Open terrain
Elevation angle	Up to 60°
Foundation	Pile in or pre-cast, bored pier
Snow load	Up to 150cm
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304, 410 Hot-dipped galvanized steel Q235B
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Ideal for uneven terrain, economical for large projects

Components



A : Pre-assembled beam



B : Pillar



C : Pillar cap



D : Rail



E : Rail splice



F : Rail clamp



G : Inter clamp



H : End clamp

The pile ground mounting system is a very economical solution for large commercial and utility scale installations, especially on uneven terrain. The use of ramming posts eliminate the need for additional excavation works, and pile-driven machine reduce labor and time remarkably on site, piling finishes in less than 3 minutes, for large projects, this means high cost savings. Single post system allows for easy maintenance around and under the modules. Double post optional for larger span and bigger array.



Pole ground mounting system

10 years warranty

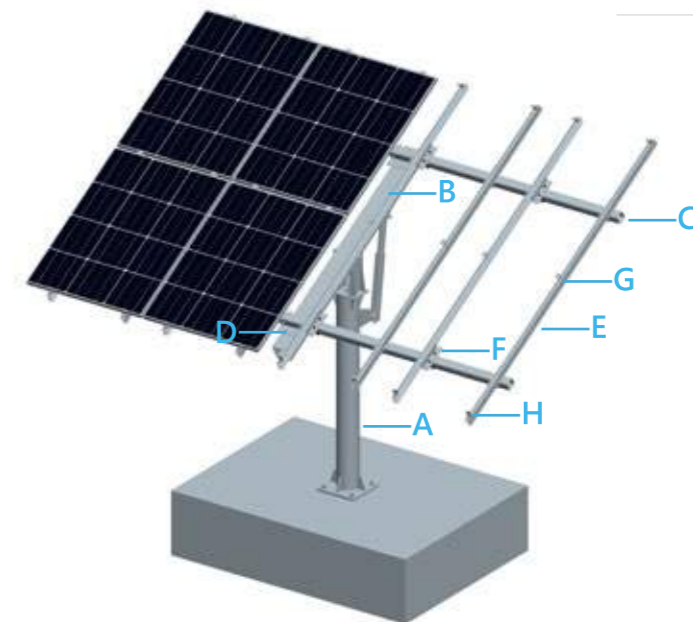
Sturdy for small area, off-grid PV, arranged beside water pump

Features

Application	Open terrain
Adjustable angle	15°- 60°
Size of module array	6 panels, 8 panels, 12 panels
Snow load	Up to 100cm
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Anodized aluminum 6005 T6 stainless steel 304 Hot-dipped galvanized steel Q235B
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

The pole mount is a very sturdy solution for small area solar photovoltaic needs. With its manu-adjustable angle settings, it can support installations in a wide range of locations.

The small on-grid or off-grid power station can be arranged in garden, farmland, mountain, or beside water pump, telecom tower or the outdoor electrical house. The structure is available for manu-adjustable angle according to the season changing.



Components



A : Adjustable Tube



B : Supporting Beam



C : Horizontal Purlin



D : Angel Steel



E : Vertical Rail



F : L Connector



G : Inter clamp

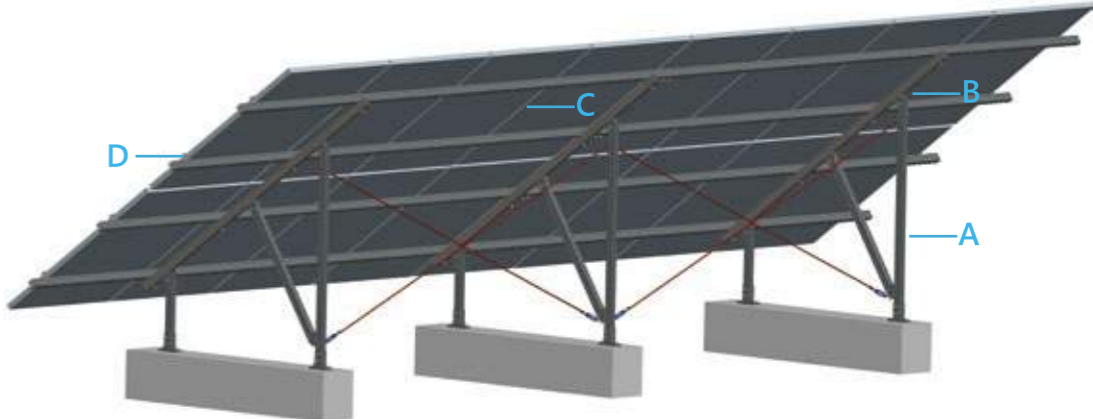


H : End clamp



10 years warranty

Steel ground mounting system



Features

Application	Open terrain
Size of module array	Any layout up to site condition
Clearance	Up to request
Snow load	Up to 150cm
Wind speed	Up to 88m/s(316.8kmh/196.9mph)
PV module	Framed, unframed
Module orientation	Landscape, portrait
Material	Stainless steel 304, 410 Hot-dipped galvanized steel Q235B
Standard	AS/NZ1170.2:2011, JIS C 8955:2011

Most economical ground mount structure in steel

Components



A : Legs, beams, rails



B : Joint



C : Inter clamp



D : End clamp

The steel ground mounting creates an economical solution and is also very solid, reliable for photovoltaic projects on a free surface. Its simplest design uses most commonly available galvanized U steel as legs, beams and rails , resulting to a ground mount system ideal for a wide range of system sizes and modular configurations. Strong steel structures helps maximize the span between footings and thus decreasing the total number of supports. Furthermore, it's is compatible with ground screws, optimizing it for different terrains and saving for site modification.

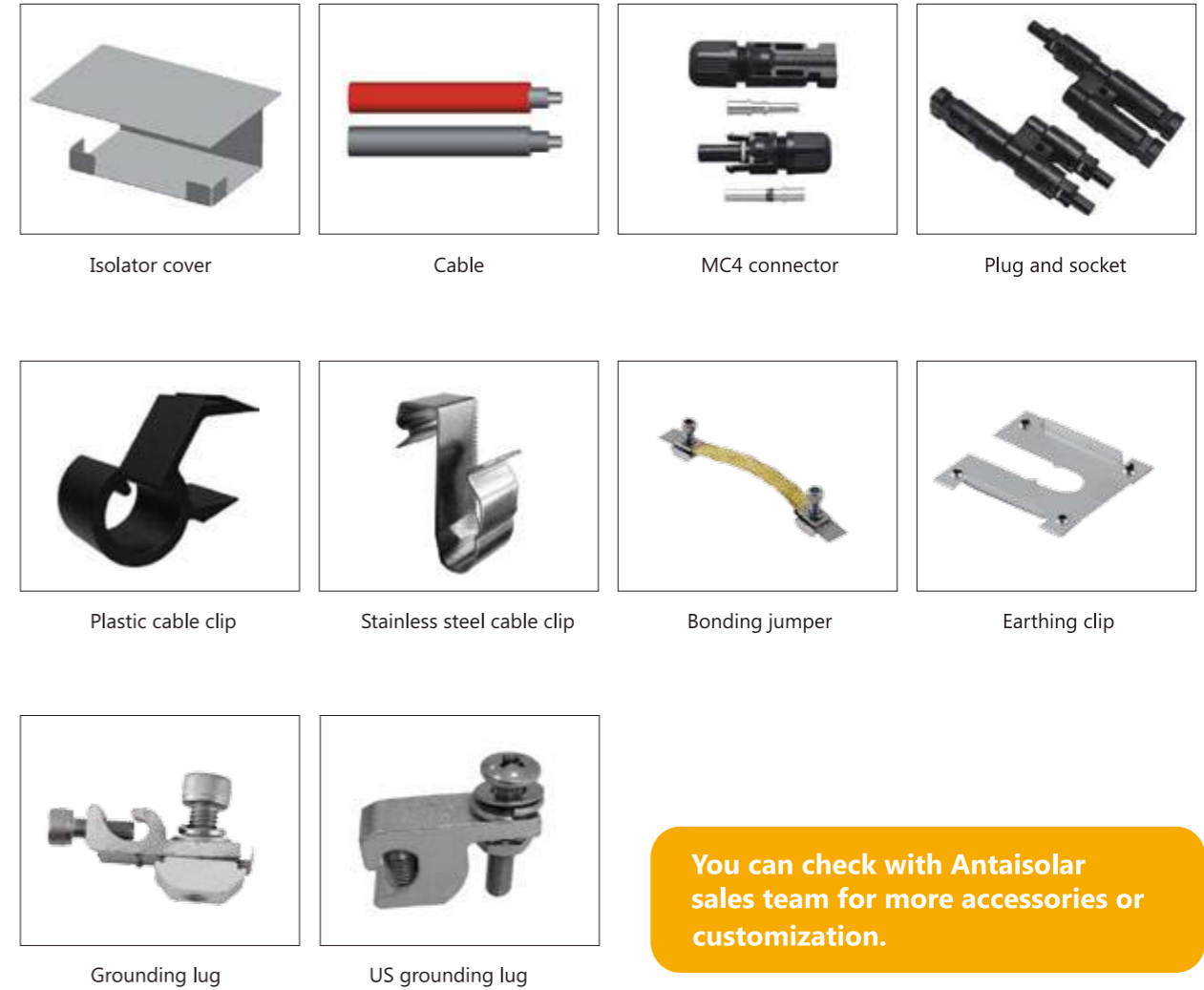
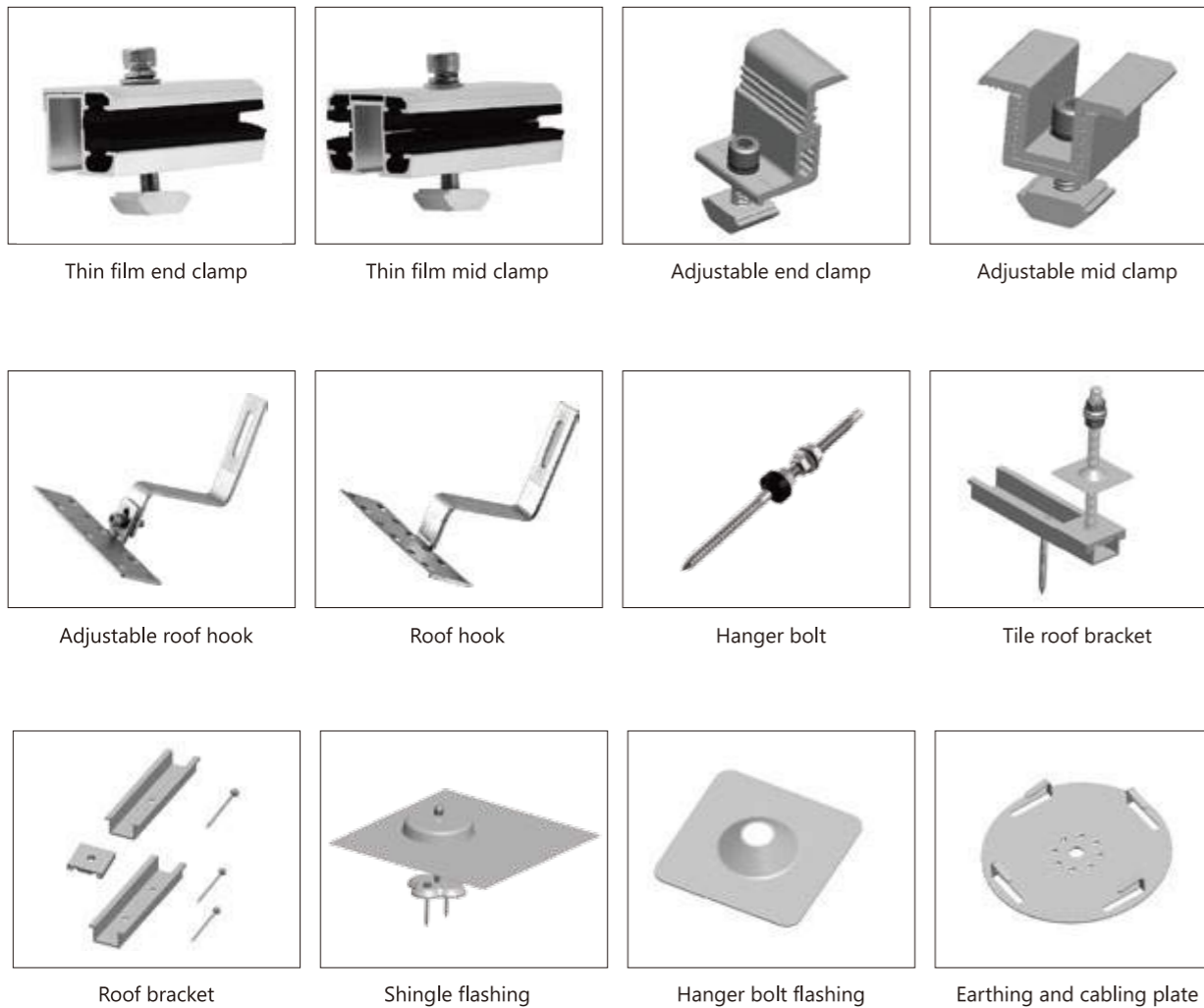
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Our accessories

Key elements to a successful PV installation

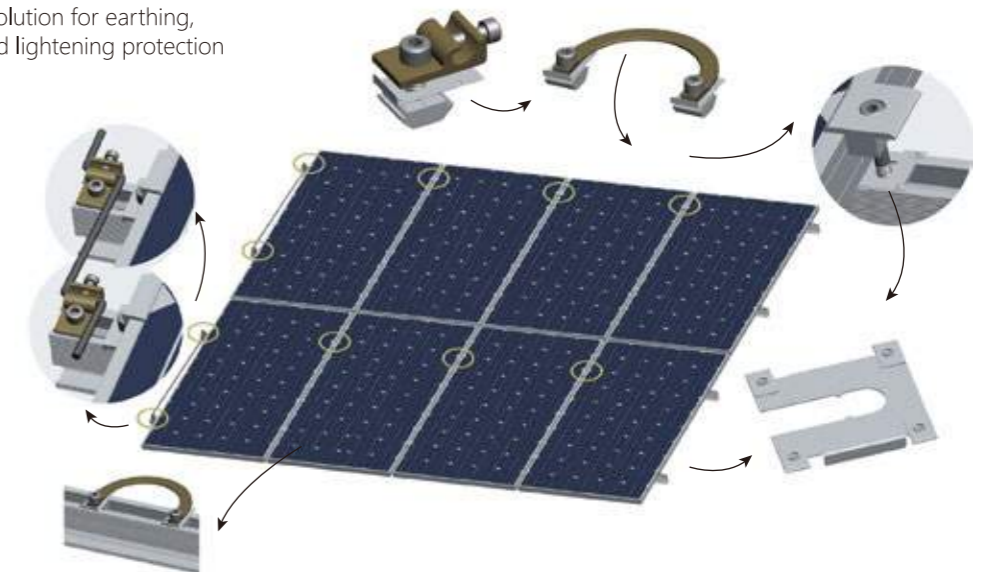
Our full range of useful accessories diversify the portfolio of Antaisolar PV mounting systems, and constantly being complemented in line with the market needs. Highly customization, flexibility, convenience to install, quality is the primary concern.

Accessories for example



You can check with Antaisolar sales team for more accessories or customization.

Modern installation solution for earthing, electrical bonding and lightning protection



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Hot-dip galvanized steel ground screw

High cost performance foundation for ground mount

Ground screw foundation allows for a streamlined design and a very cost-effective ground mount system.

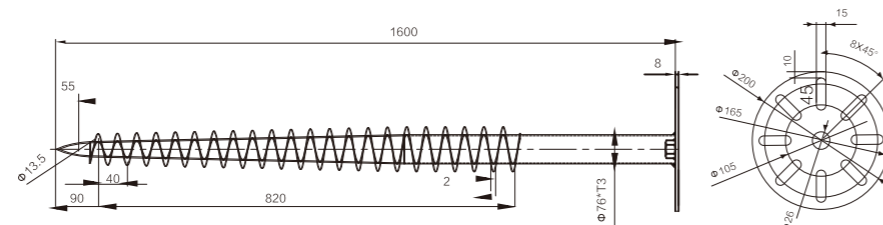
Using less concrete, no excavation, especially useful for sites with restricted access or environmental sensitivity.

High adaptability can be widely used in all kinds of geological conditions, such as foreshore, desert, grassland, etc.

Average 80µm galvanization ensures high corrosion resistance without additional treatment.

Item No.	Length	Out Dia.	Thickness	Flange Out Dia.	Material
AT76xT3.5x1200 AT76xT3.5x1400 AT76xT3.5x1600 AT76xT3.5x1800 AT76xT3.5x2000	1200mm 1400mm 1600mm 1800mm 2000mm	76mm	3.5mm	220mm	Hot dipped galvanized steel, Q235B
AT76xT3x1200 AT76xT3x1400 AT76xT3x1600 AT76xT3x1800 AT76xT3x2000	1200mm 1400mm 1600mm 1800mm 2000mm	76mm	3mm	200mm	Hot dipped galvanized steel, Q235B

• Length can be customized.



Different options of screws can be applied to specific project condition. (Length, diameter, tube thickness, helices thickness, flange size)



Screw in

• Manual piling machine

Easy operation, cost effective for small size ground mount project.

• Pile driver machine

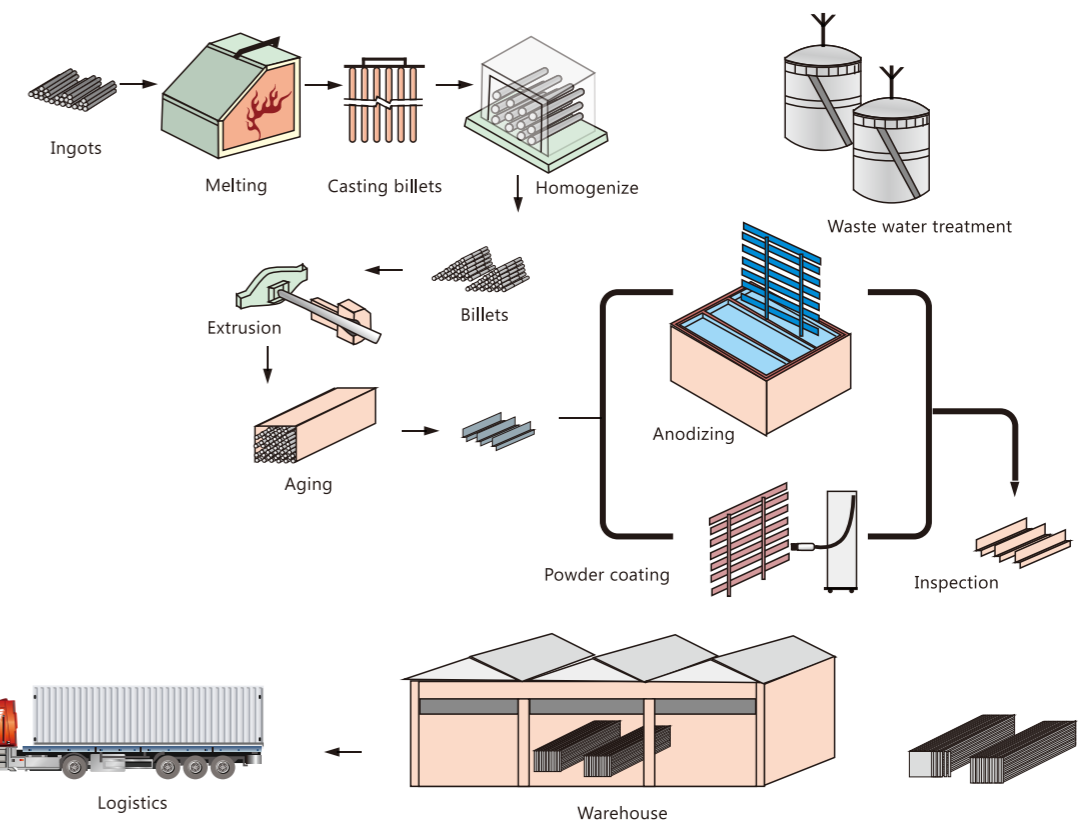
High installation efficiency, 30-75s for one screw in, ideal for large scale project.



Production & logistics

Fully supply chain means you are guaranteed with highest quality check through. Due to the manufacturing capacity of our factory, we can respond quickly and ensure availability of all of our regular products.

Delivery of regular order within 7days, project-specific customized package acceptable, cost-efficient shipment planning.



Melting



Germany inspection equipment



Extrusion



Anodizing



Fine machining



Ship out