SOLARFIRST



NEW ENERGY NEW WORLD

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Xiamen Solar First Energy Technology Co., Ltd.

COMPANY PROFILE

Xiamen Solar First Energy Technology Co., Ltd.

Xiamen Solar First Energy Technology Co., Ltd. (Solar First) specializesin R&D, production and sales of solar photovoltaic products, providing solar power systems, solar trackers, solar floating systems, BIPV systems, flexible mounting systems, ground and roof mounting systems, solar streetlights, wind and solar hybrid lights, and other solutions. Solar First' s sales network covers all over China and more than 100 countries and regions, including Europe, North America, East Asia, Southeast Asia, and the Middle East.

Solar First is also a "National High-Tech Enterprise", "Small Technology Giant", "Contract-Abiding and Credit-Worthy Enterprise", "Industrial Enterprise Above Designated Size in Xiamen", "Small and Medium-Sized Technology-Based Enterprise" and "Class A Enterprise in Tax Credit", which researches, develop, manufactures and sells renewable energy products.

Solar First has obtained ISO9001/14001/45001 system certificates, 6 invention patents, more than 50 utility model patents, 2 software copyrights, and has rich experience in the design and manufacture of renewable energy products.



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CERTIFICATION

BUSINESS LICENSE & HONOR



CPP Certificate
Solar Tracker



CE Certificate
Solar Tracker



IEC Certificate
Solar Tracker



Business License



National High-tech Enterprise



EN1090 Certificate
Aluminum and Steel



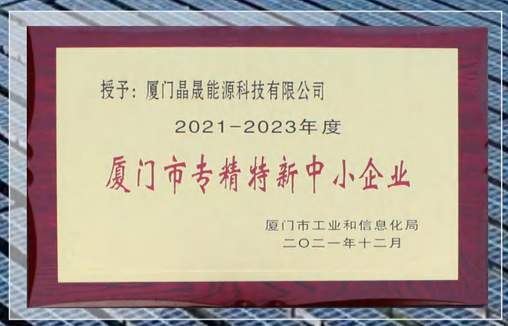
TUV Certificate
Aluminum



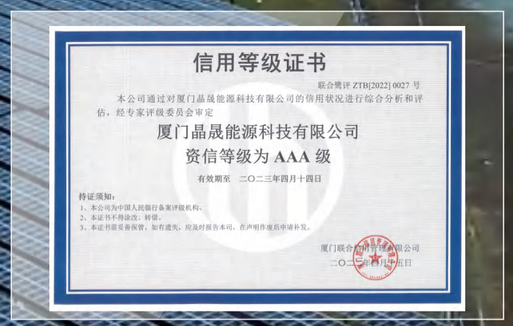
Australian Steel Ground
Mount Certificate



Over 50 Intellectual
Property Rights
including Invention Patents



Professional-Specialized-Innovative
Small and Medium Enterprise of Xiamen



AAA Class Credit Certificate



ISO 9001
Certificate



ISO 14001
Certificate



ISO 45001
Certificate



Intellectual Property
Management
System Certificate



OFweek Vickers Cup
“Excellent PV Mounting Enterprise”



“Polaris Cup”
Annual Influential
BIPV Solution Enterprise

Top 10 Most
Popular Brand of
PV Mounting System

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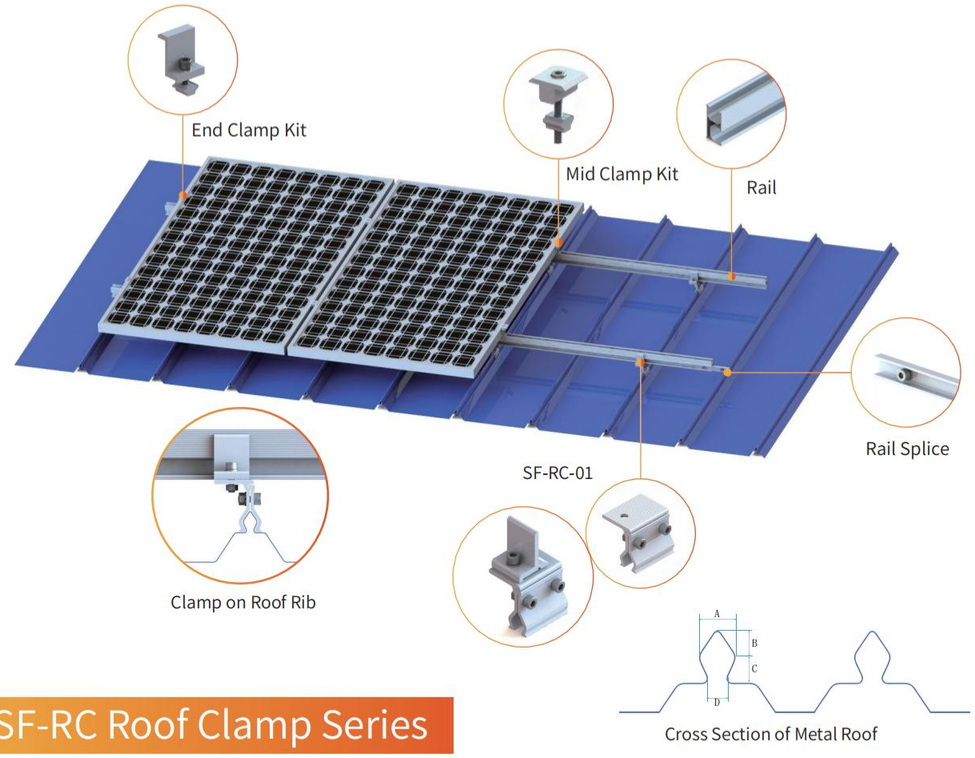
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SOLARFIRST

PRODUCT

SF METAL ROOF MOUNT - ANGULAR ROOF CLAMPS



SF-RC Roof Clamp Series



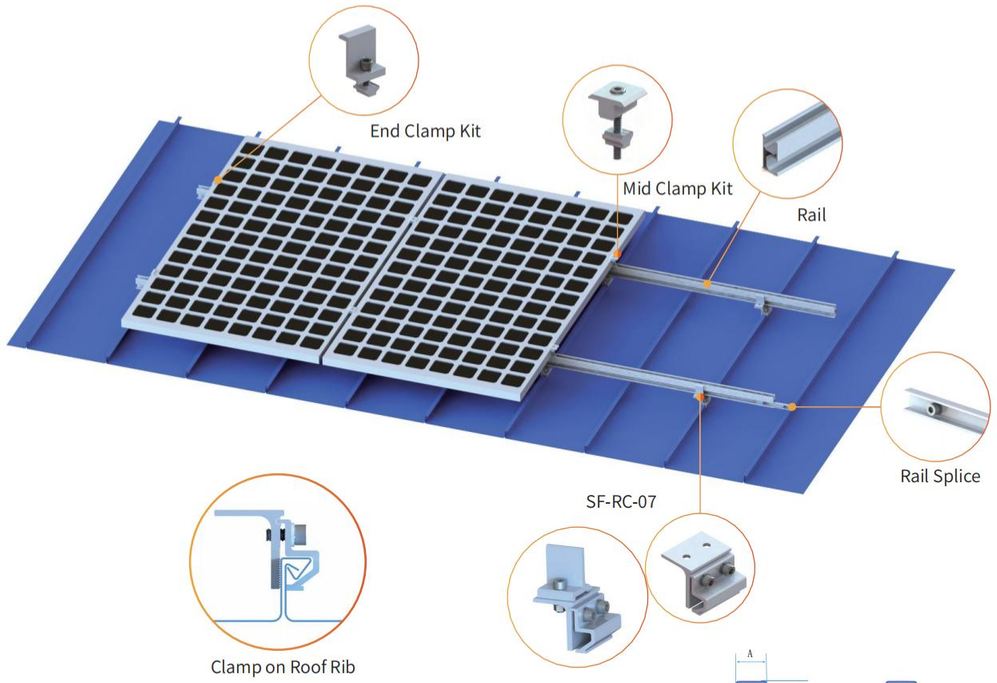
SF-RC-01 SF-RC-02 SF-RC-03 SF-RC-04 SF-RC-05

Dimensions (mm)	A	B	C	D
SF-RC-01	18	13.5	10.5	10
SF-RC-02	26	12	10.5	18
SF-RC-03	35	21.6	2.5	31.5
SF-RC-04	16.3	16.3	2.5	12
SF-RC-05	15	12.2	10	10

Technical Details

Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - STANDING SEAM ROOF CLAMPS



SF-RC Roof Clamp Series



Dimensions (mm)	A	B
SF-RC-06	8.5	18
SF-RC-07	21	18

Technical Details

Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - TRAPEZOID ROOF CLAMPS



SF-RC Roof Clamp Series

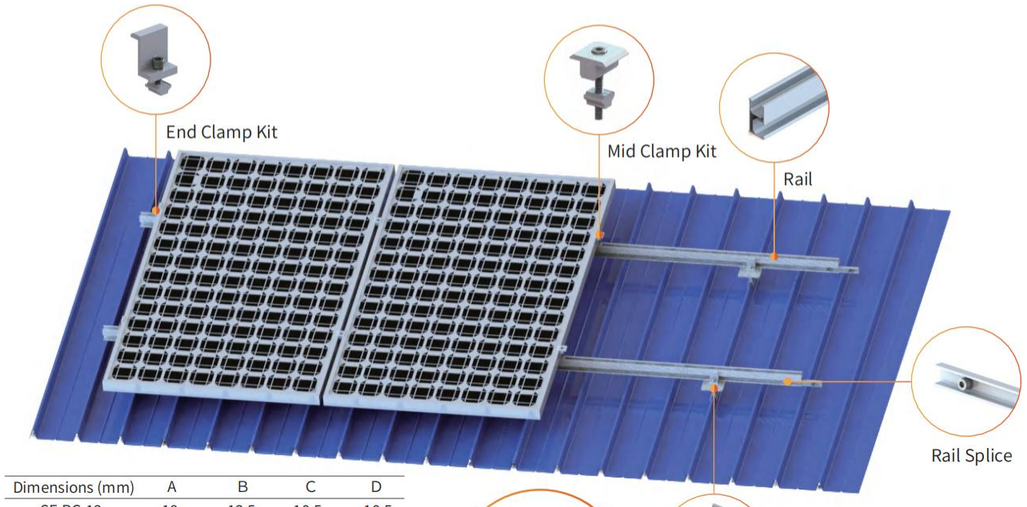
Dimensions (mm)	A	B	C (°)
SF-RC-08	28	34	122
SF-RC-09	20	20	123
SF-RC-10	20	20	123
SF-RC-11	25	23.8	132
SF-RC-18	22	16	120
SF-RC-21	52	12	135
SF-RC-22	33.7	18	135
SF-RC-23	33.7	18	135



Technical Details

Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - KLIP LOK ROOF CLAMPS



Dimensions (mm)	A	B	C	D
SF-RC-12	18	13.5	10.5	10.5
SF-RC-13	26	29	26	21.3
SF-RC-14	17.8	18.5	30.5	26
SF-RC-19	13	20	24.8	20
SF-RC-20	31.6	13.5	41	36.8
SF-RC-28	2	22.9	18	10
SF-RC-32	22.4	19.6	35.5	31
SF-RC-33	7.4	24.8	30	22.1

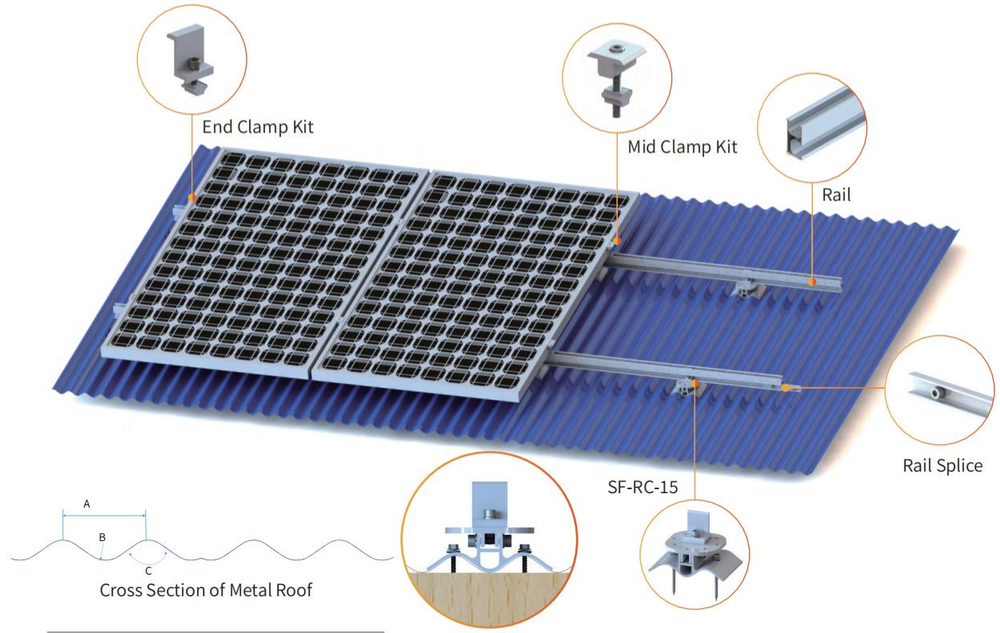
SF-RC Roof Clamp Series



Technical Details

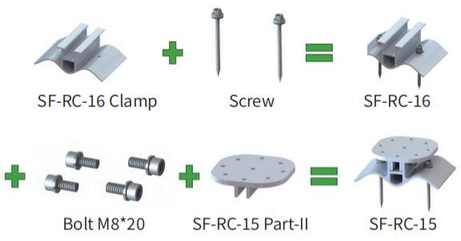
Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m^2
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - WAVY ROOF CLAMPS



Dimensions (mm)	A	B	C (°)
SF-RC-15	76	21(R)	112
SF-RC-16	76	21(R)	112

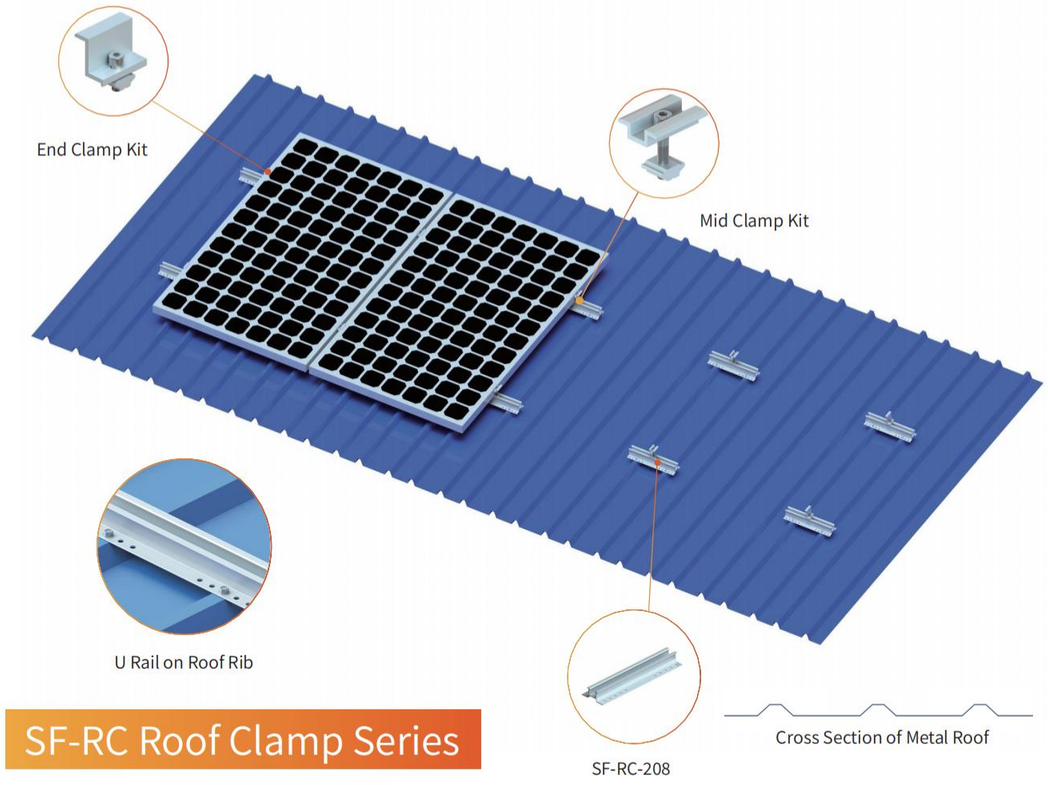
SF-RC Roof Clamp Series



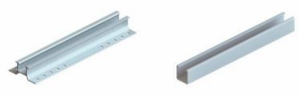
Technical Details

Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m^2
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - U RAIL



SF-RC Roof Clamp Series

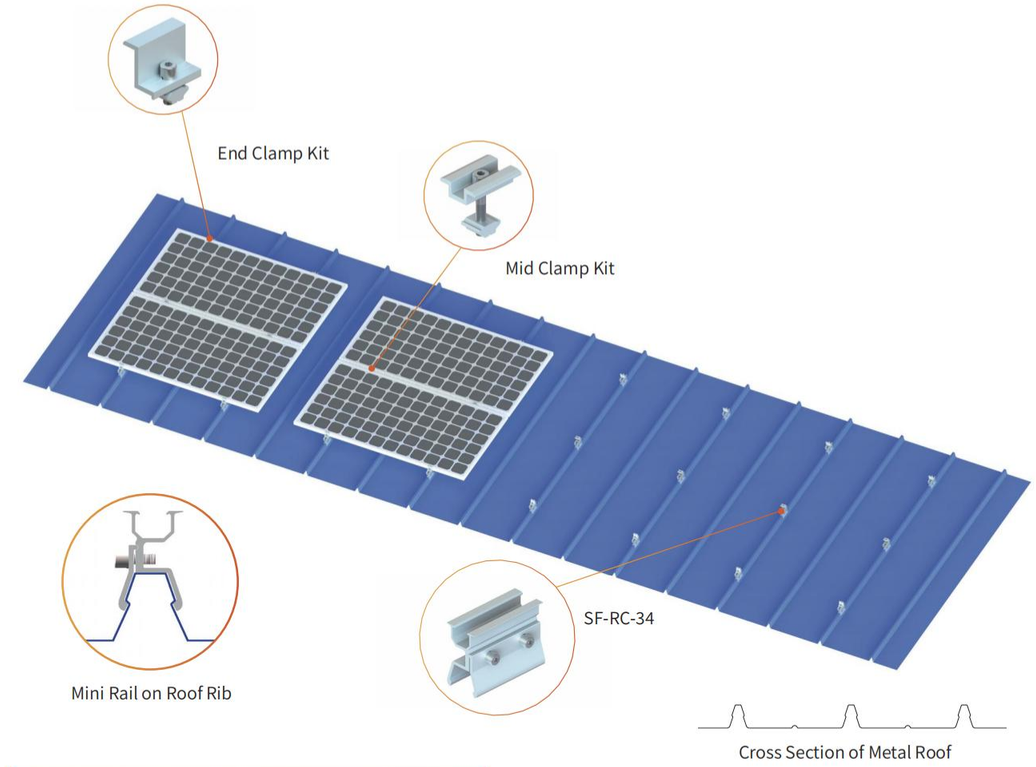

SF-RL-208

SF-RL-209

Technical Details

Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - MINI RAIL



SF-RC Roof Clamp Series


SF-RC-34


SF-RC-35


SF-RC-36

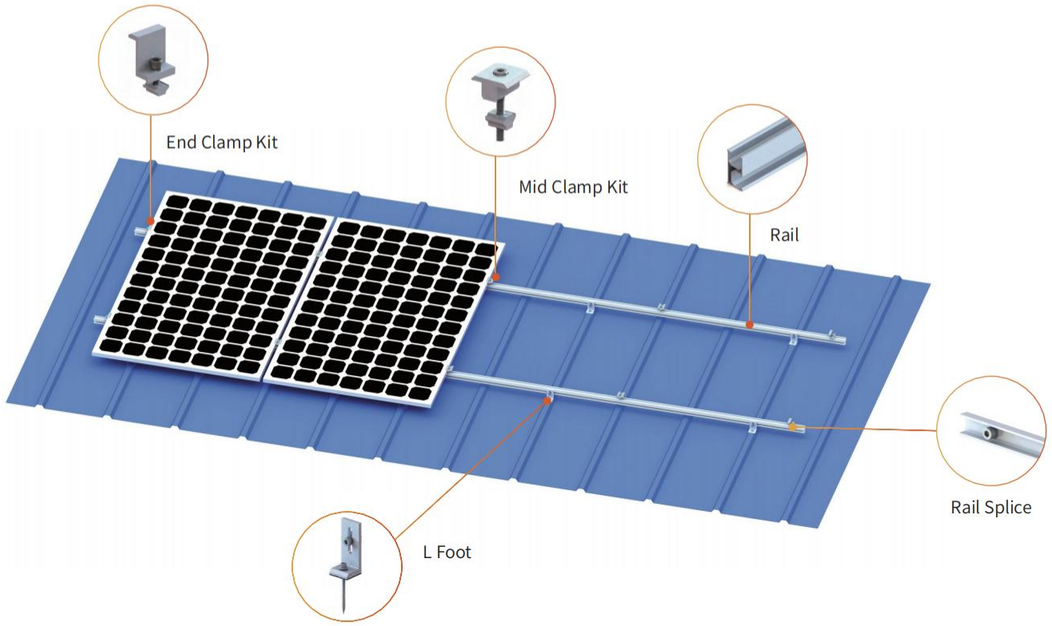

SF-RC-37

尺寸类型(mm)	A	B	C	D
SF-RC-34	12.4	19.1	24.5	20.2
SF-RC-35	17.9	13.8	25	16.2
SF-RC-36	0	10.1	20.2	7.1
SF-RC-37	0	12.3	24.6	14.7

Technical Details

Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - L FOOT



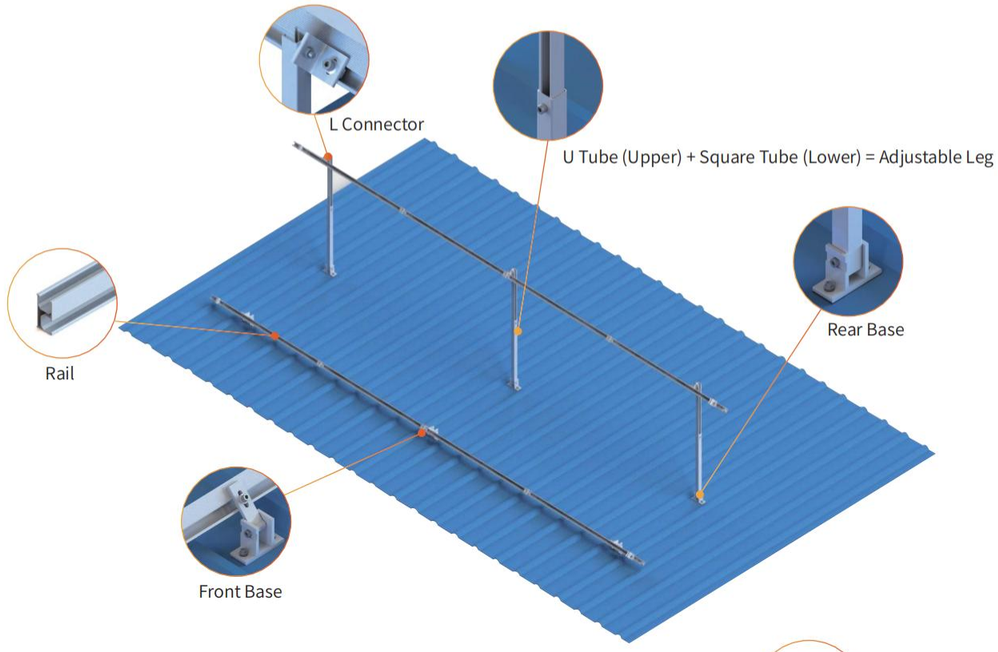
SF-RC Roof Clamp Series

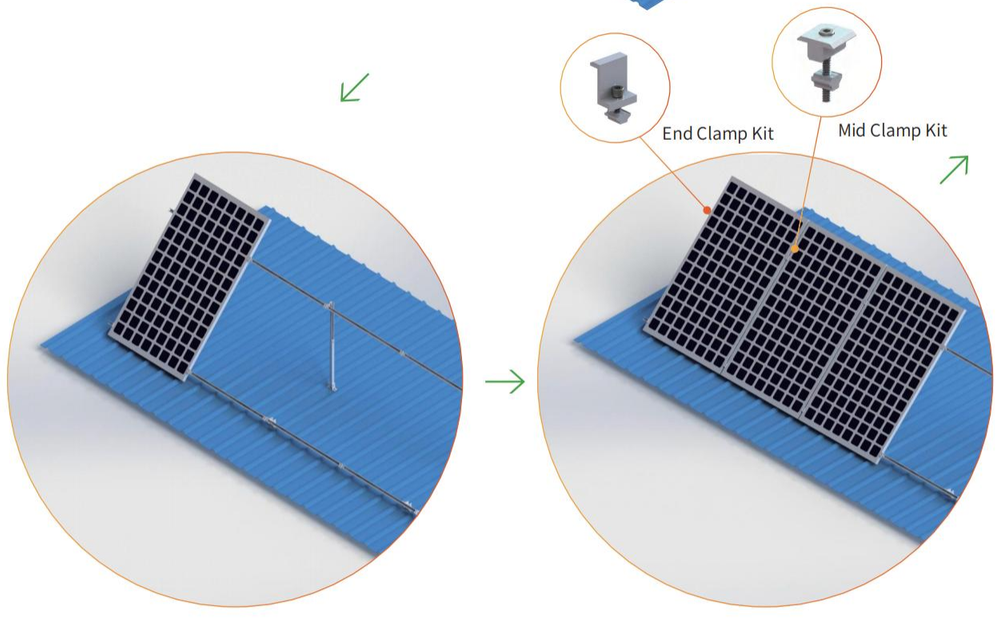


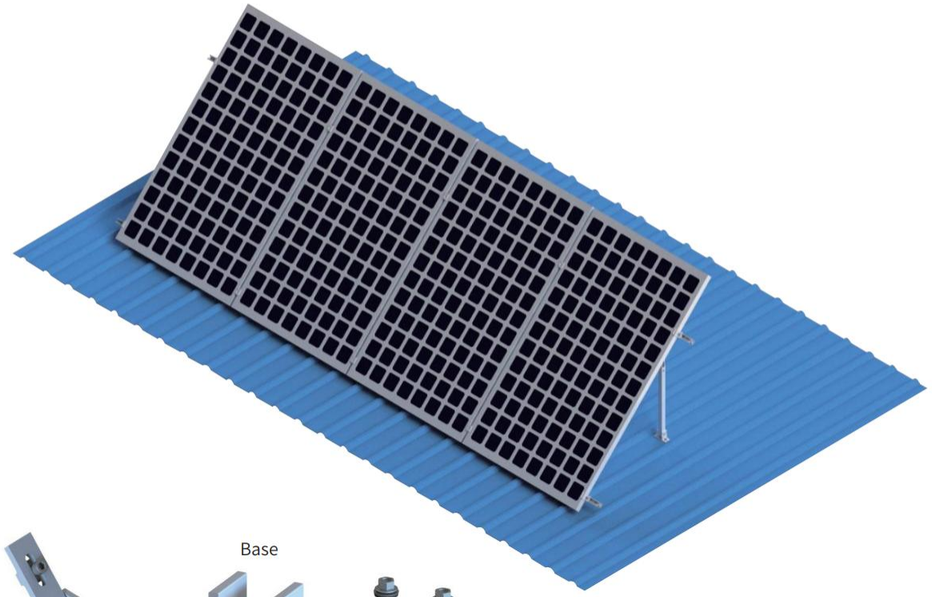
Technical Details

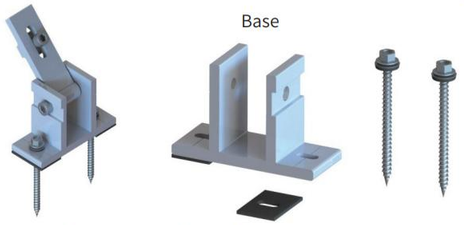
Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF METAL ROOF MOUNT - ADJUSTABLE LEGS

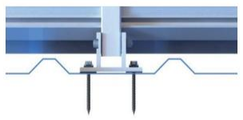








Adjustable Front Base EPDM Rubber Gasket Screws



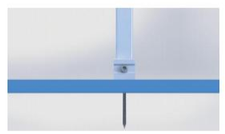
Back View



Side View of Front Leg



Rear Leg and Rail



Side View of Rear Leg

Technical Details

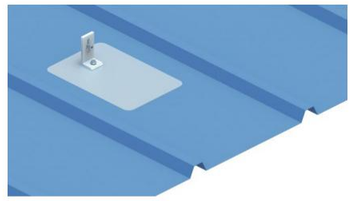
Installation	Metal Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	5°~45°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF SHINGLE ROOF MOUNT - FLASHING





Flashing on Roof



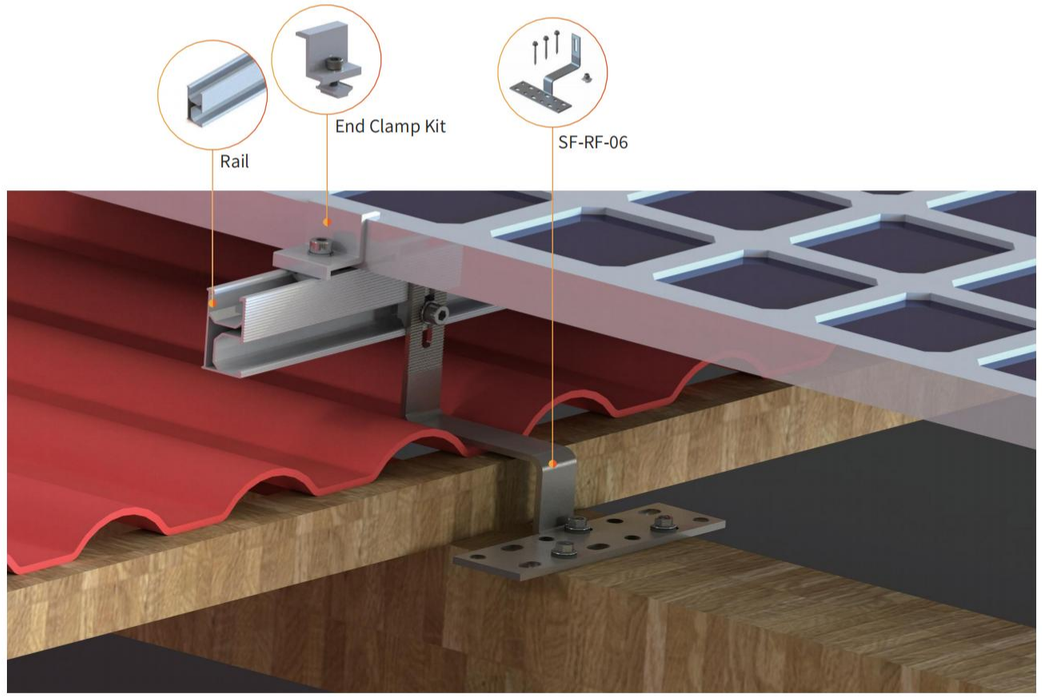
Flashing on Roof

Technical Details

Design Description: Apply the flashing to prevent water leakage effectively.

Installation	Shingle Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF TILE ROOF HOOKS



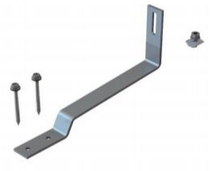
SF-RF Roof Hook Series


SF-RF-02


SF-RF-05


SF-RF-06


SF-RF-07


SF-RF-08


SF-RF-09


SF-RF-10


SF-RF-11


SF-RF-13


SF-RF-15


SF-RF-17


SF-RF-18


SF-RF-19


SF-RF-20

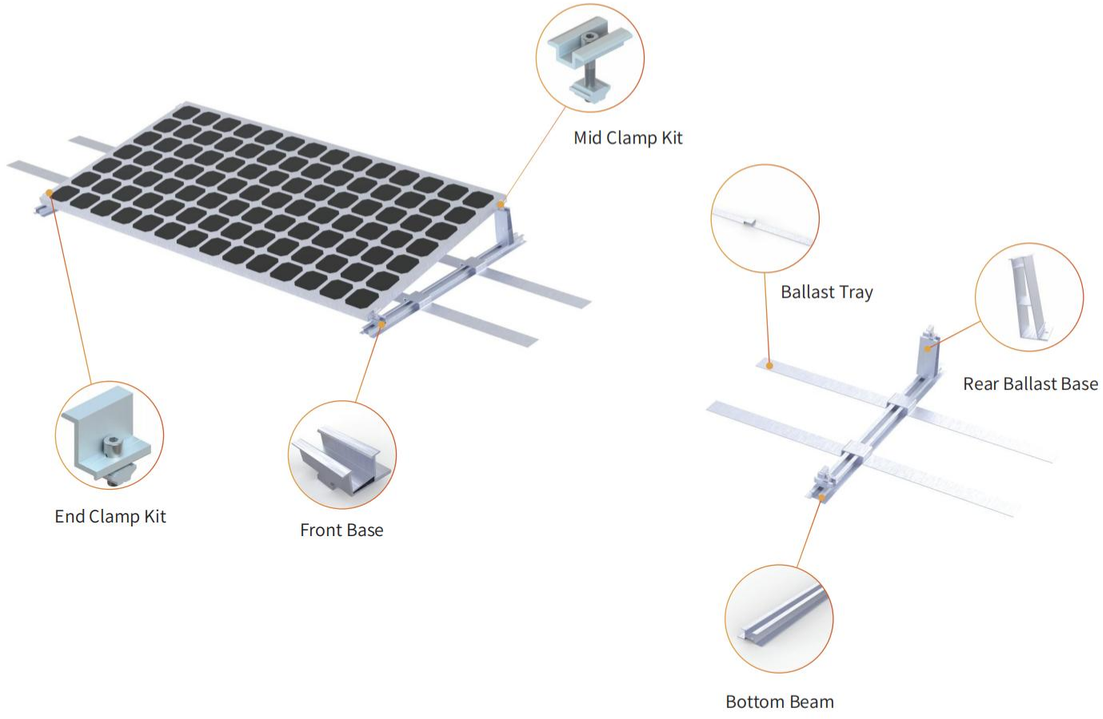

SF-RF-21


SF-RF-22

Technical Details

Installation	Tile Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	Parallel to Roof Surface
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF CONCRETE MOUNT – BALLATED ROOF MOUNT

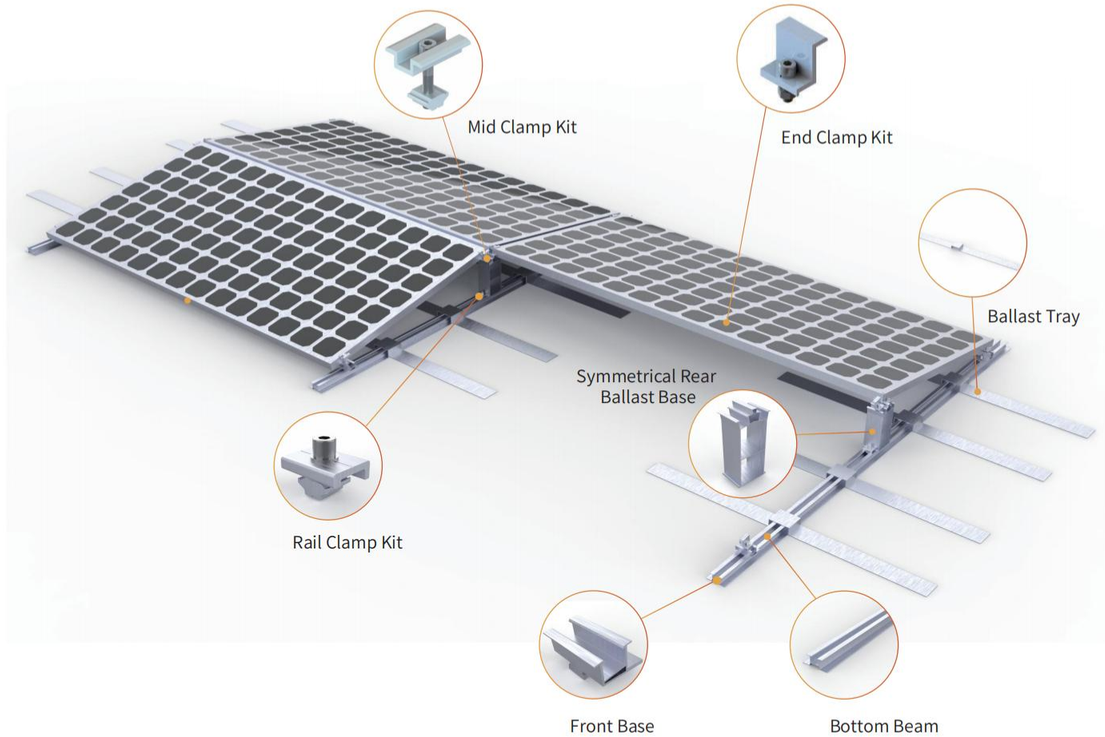


Technical Details

Design Description: This solution is also applicable on ground or concrete roof with small inclination. Its structure is light with high strength and good flexibility.

Installation	Ground/Concrete Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	5°, 10°, 15°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF CONCRETE MOUNT – SYMMETRICAL BALLATED ROOF MOUNT

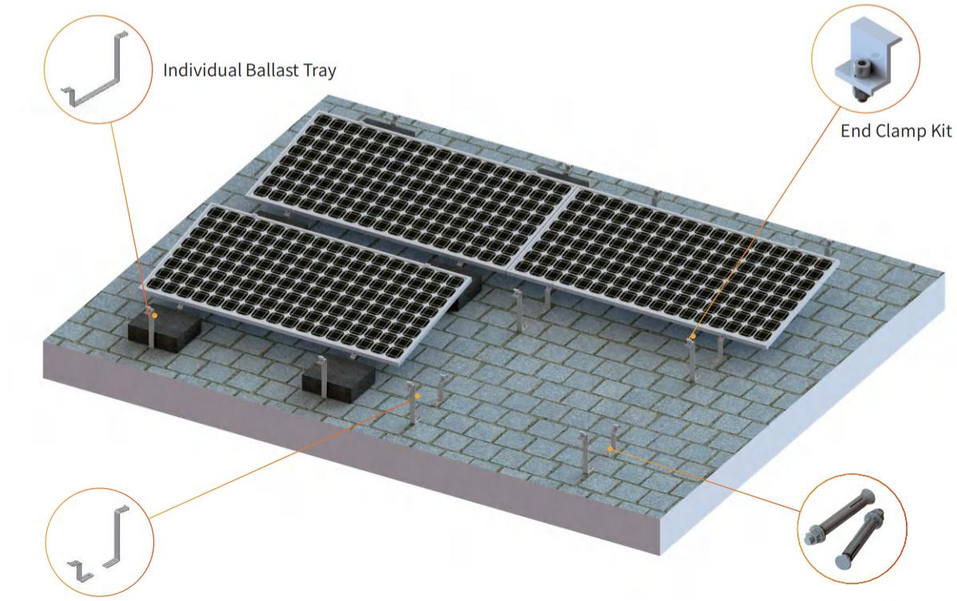


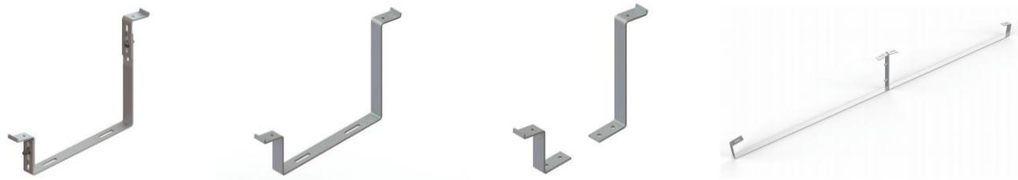
Technical Details

Design Description: Suitable for herringbone bi-directional ballasted system, which can better effectively resist the effect of negative wind pressure

Installation	Ground/Concrete Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	5°, 10°, 15°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF CONCRETE ROOF MOUNT - UNIVERSAL BALLASTED ROOF MOUNT



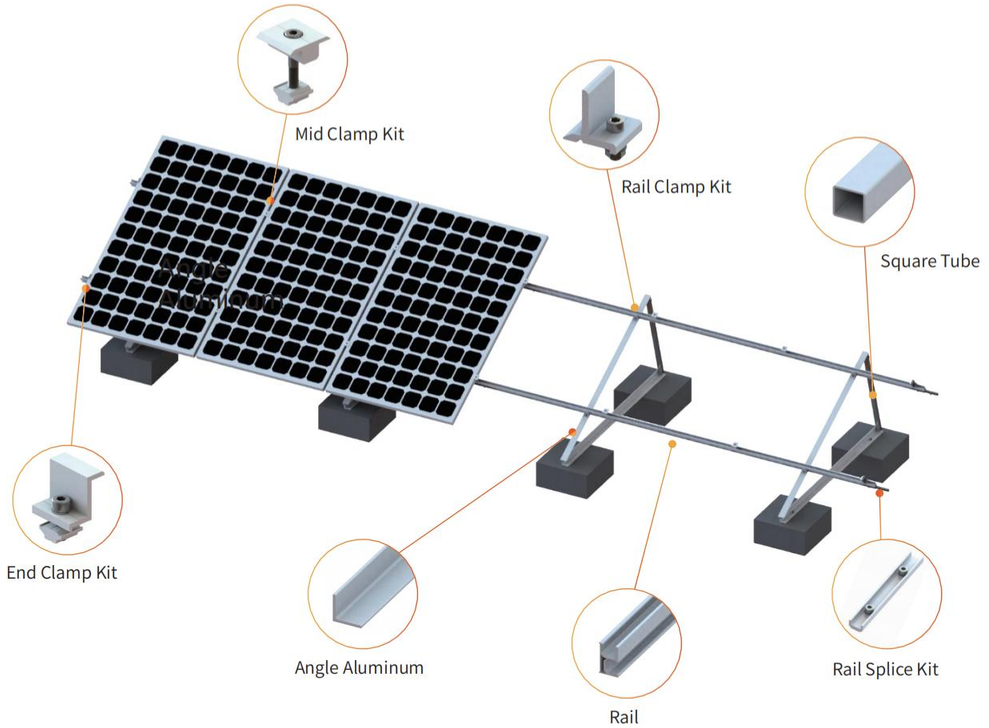


Technical Details

Design Description: This solution is also applicable on ground or concrete roof with small inclination.
Its structure is light with high strength and good flexibility.

Installation	Ground/Concrete Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	10°, 15°, 20°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF CONCRETE ROOF - FIXED TRIANGLE

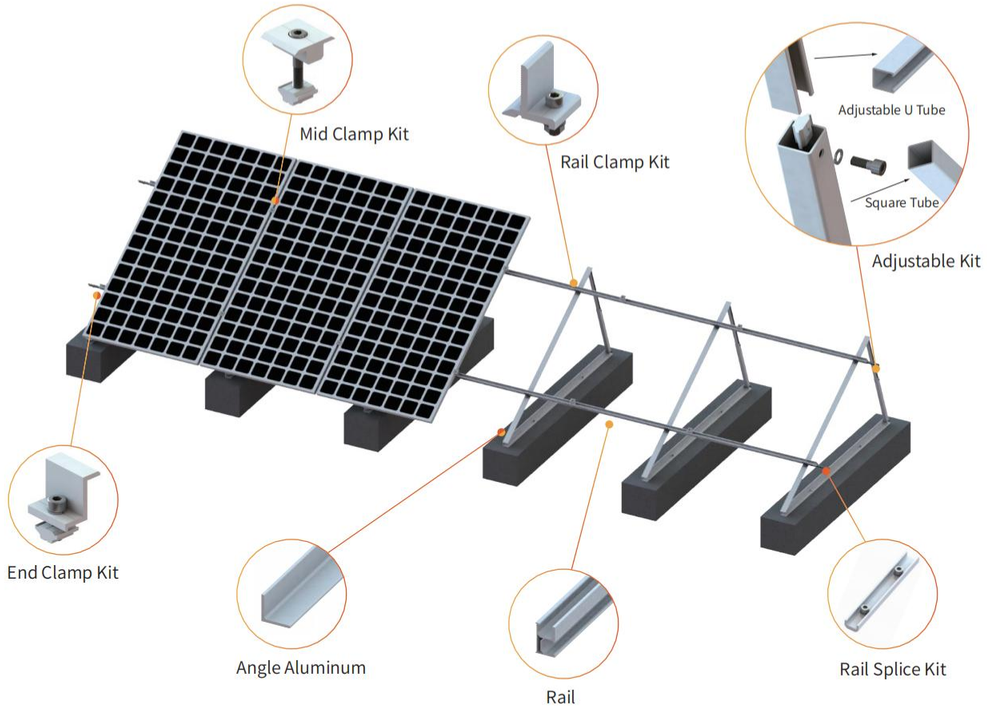


Technical Details

Design Description: This solution is applicable on ground or concrete roof with small inclination.
Light structure, strong strength, good flexibility.

Installation	Ground/Concrete Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	0~60°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF CONCRETE ROOF MOUNT - ADJUSTABLE TRIANGLE



Technical Details

Design Description: This solution is applicable to ground or concrete roof with small inclination.
Light structure, strong strength, good flexibility, customer may adjust tilt angle according to project need.

Installation	Ground/Concrete Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	5~60°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

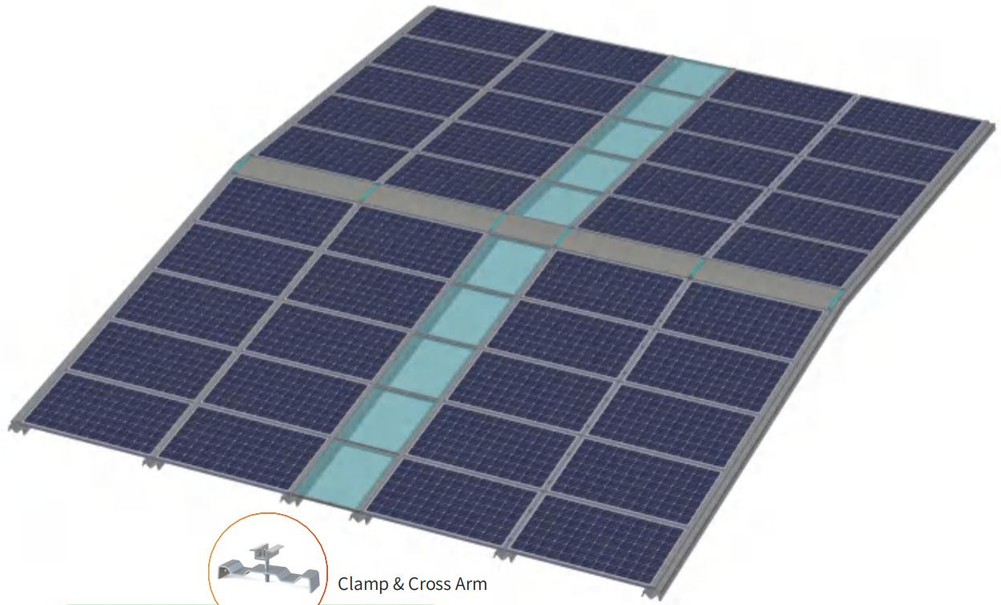
SF BALCONY MOUNT



Technical Details

Installation	Ground/Concrete Roof/Fence
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	25~50°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF BIPV ROOF MOUNT

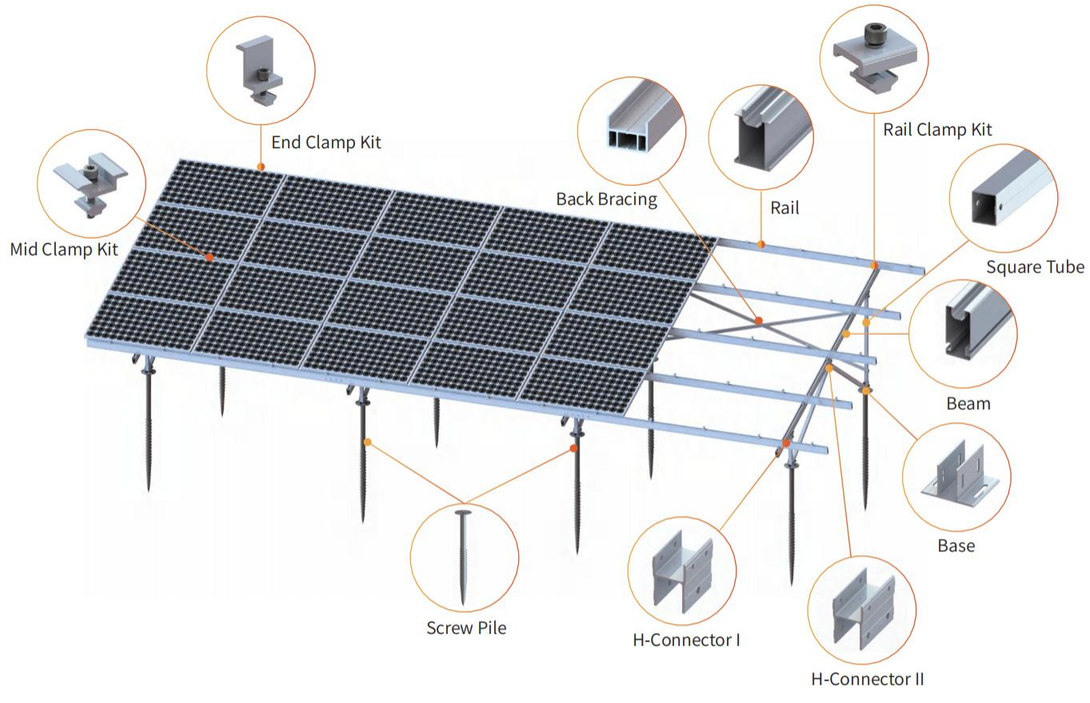


Technical Details

Installation	BIPV Roof
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	⩾3°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50017-2017
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304, Hot Dip Galvanized Steel
Warranty	10 Years Warranty

SF ALUMINUM GROUND MOUNT





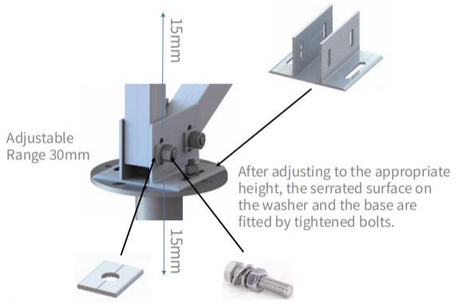
Installation Steps

01 Foundation Installation

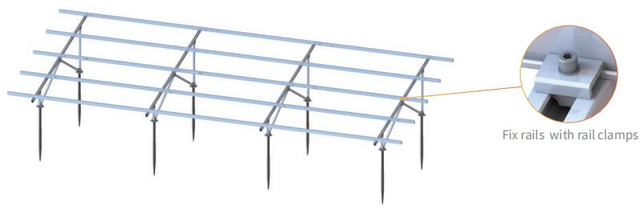


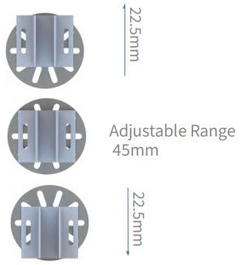
02 Install the pre-assembled bracket (The pre-assembled bracket is a set assembled before delivery, which can be easily unfolded and installed, and can greatly reduce the construction period on-site)





03 Install rails





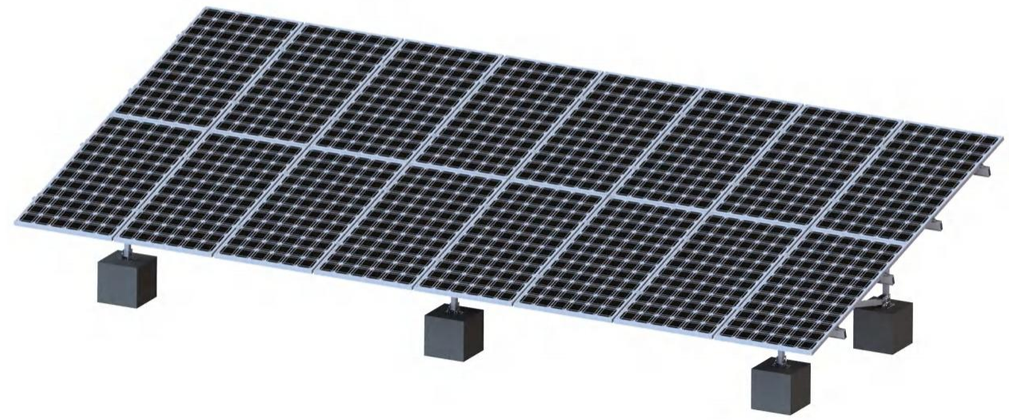
04 Install back bracing to improve stability of the mount

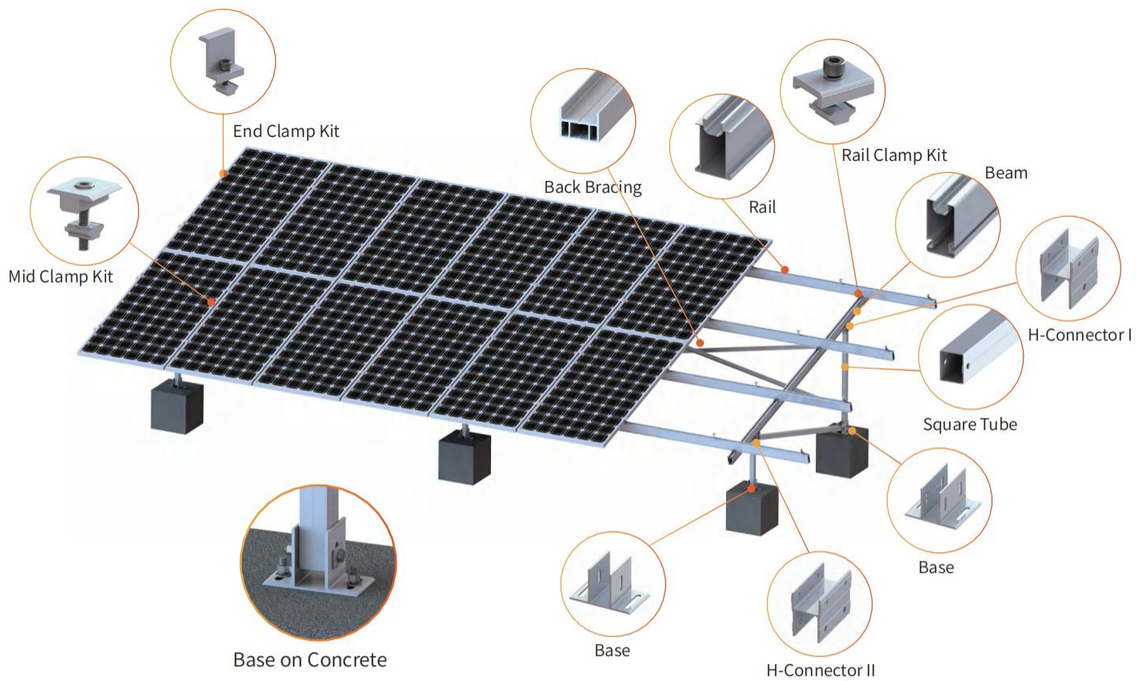


05 Install panels

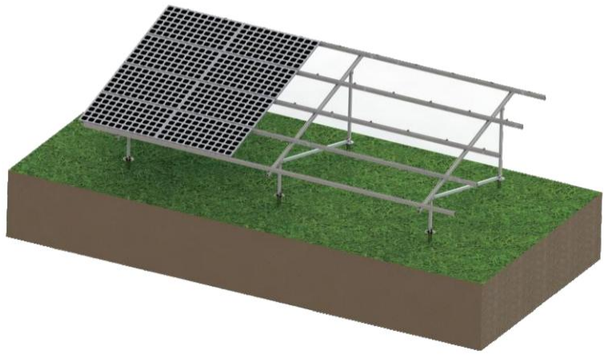


SF ALUMINUM GROUND MOUNT - CONCRETE FOUNDATION



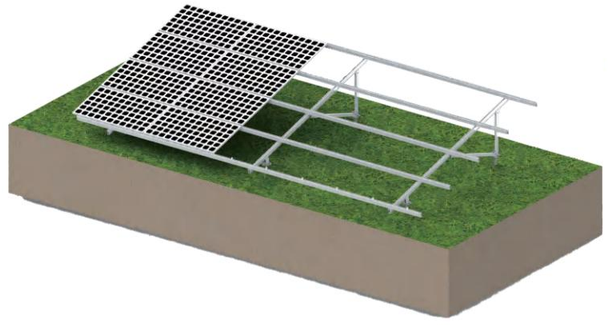


SF FLAT GROUND MOUNT - N TYPE, V TYPE, W TYPE



N-Type Structure

Widely used structure, stable, convenient to install, welcomed by the customer.
Recommended environment:
Low snow load and wind load.



V-Type Structure

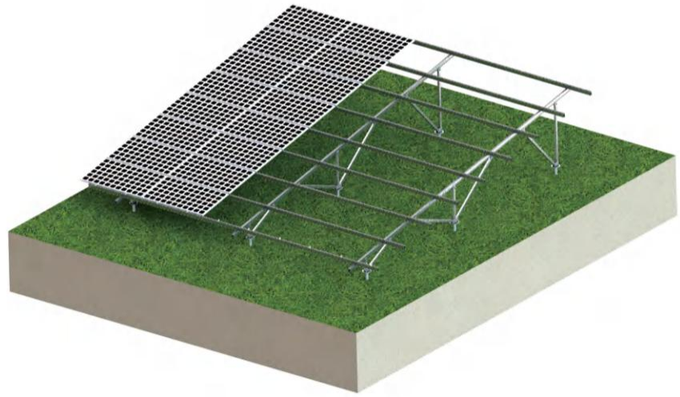
Easily installed structure with strong practicability. Since the V type structure has a limitation in ground clearance, it is suitable for concrete flat roofs, and places of no weeds or large animals. It serves as a cost-efficient approach.
Recommended environment:
Low snow load and wind load.



W-Type Structure

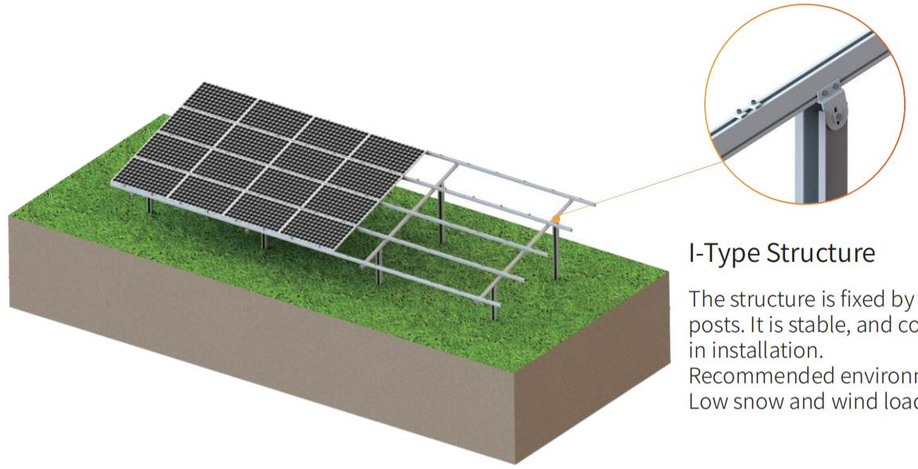
Popular structure with double V-shaped structure creating a strengthened stability of the structure itself. It can be used in various environments.
Recommended environment:
High snow load and wind load.

SF FLAT GROUND MOUNT - MULTI-ROW TYPE, I TYPE



Multi-Row Type Structure

Multi-row module installation design may increase land utilization rate, improve power generation efficiency, and raise economic benefits.
Recommended tilt angle: Less than 15°
Recommended environment:
High snow load and wind load.



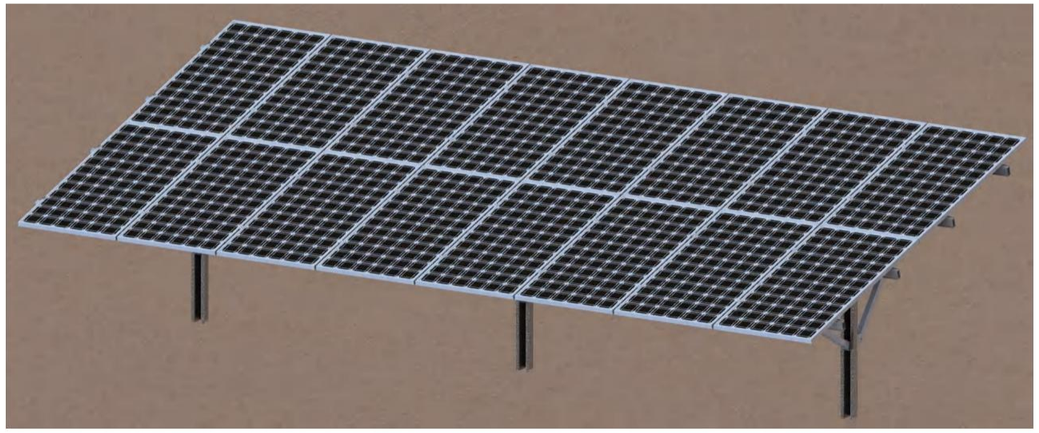
I-Type Structure

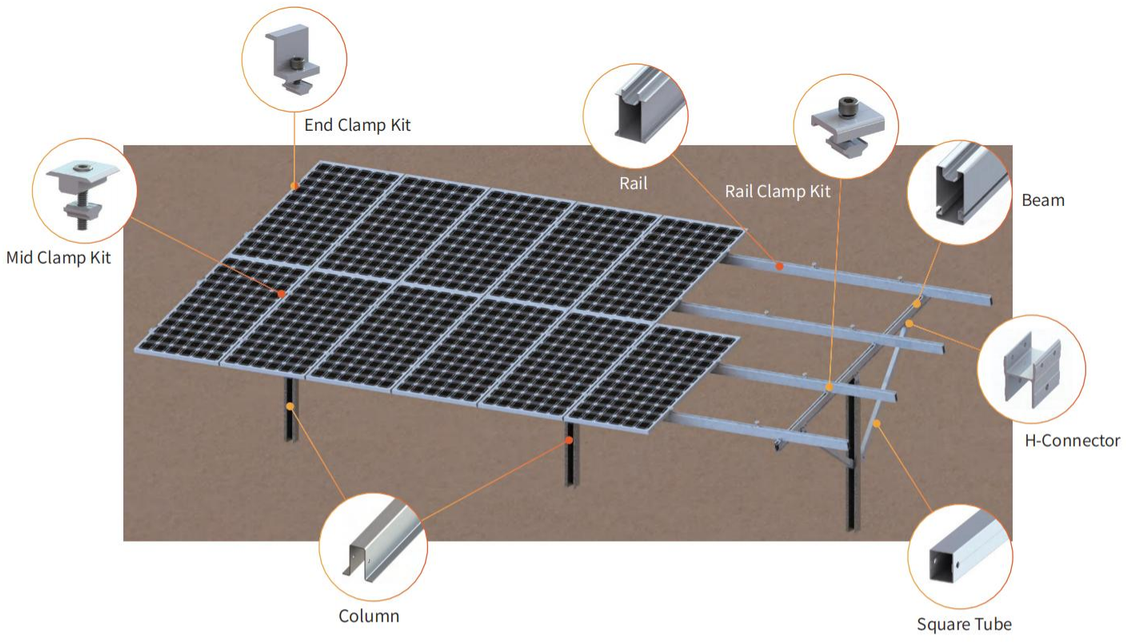
The structure is fixed by two open posts. It is stable, and convenient in installation.
Recommended environment:
Low snow and wind load.

Technical Details

Installation	Ground
Wind Load	up to 60m/s
Snow Load	1.4kn/m^2
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Aluminum AL6005-T5, Hot Dip Gavanized Steel, Stainless Steel SUS304
Warranty	10 Years Warranty

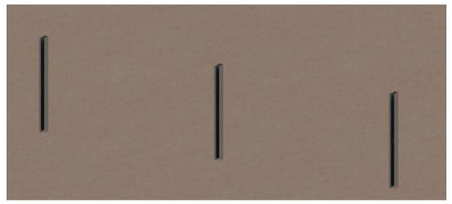
SF RAMMING PILE GROUND MOUNT



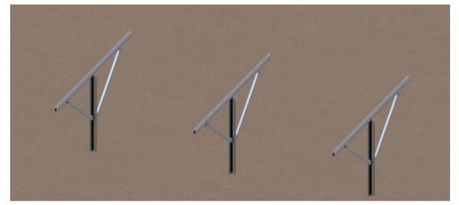


Installation Steps

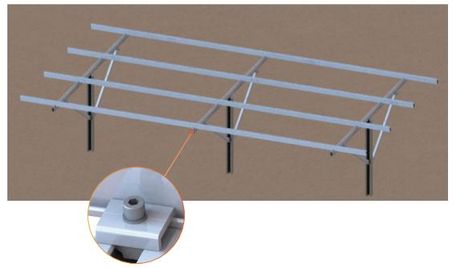
01 Foundation Installation



02 Install the pre-assembled bracket (The pre-assembled bracket is a complete set,which can be easily installed on site, and can greatly reduce the construction period on site)

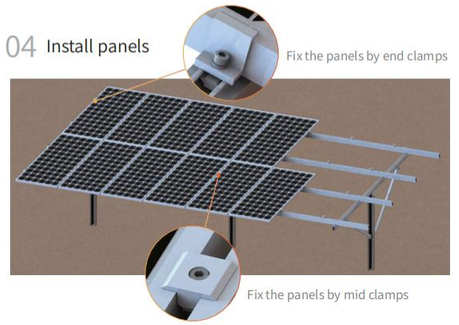


03 Intall rails



Lock rails with rail clamps

04 Install panels

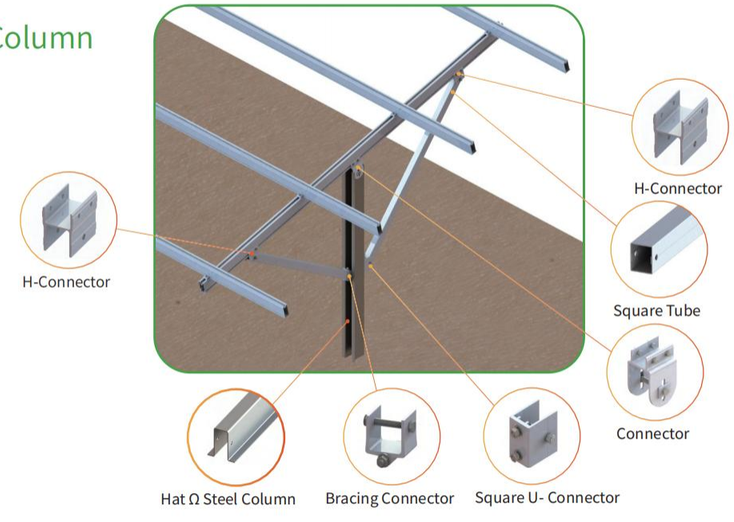


Fix the panels by end clamps

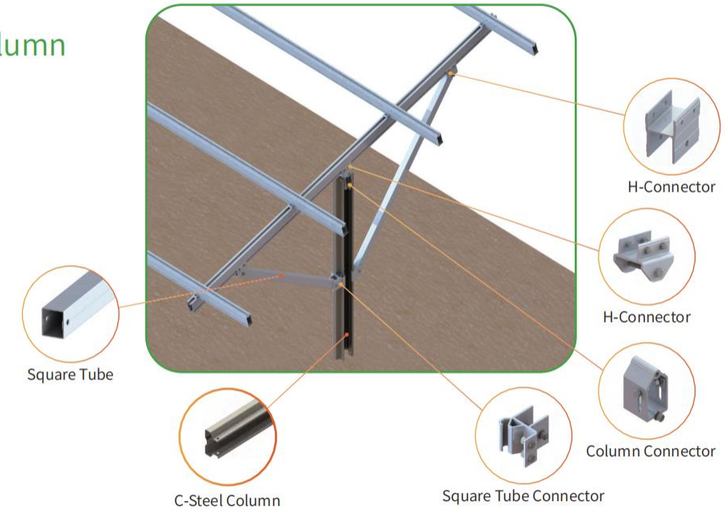
Fix the panels by mid clamps

Available Types of Columns

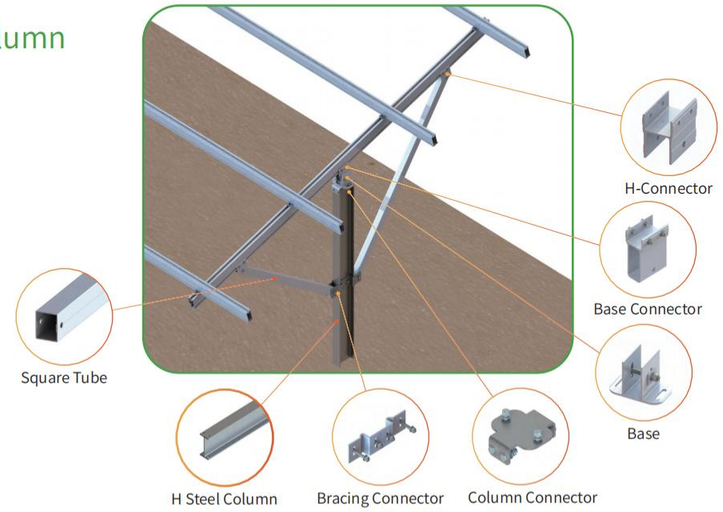
① Hat Ω Column



② C Column



③ H Column



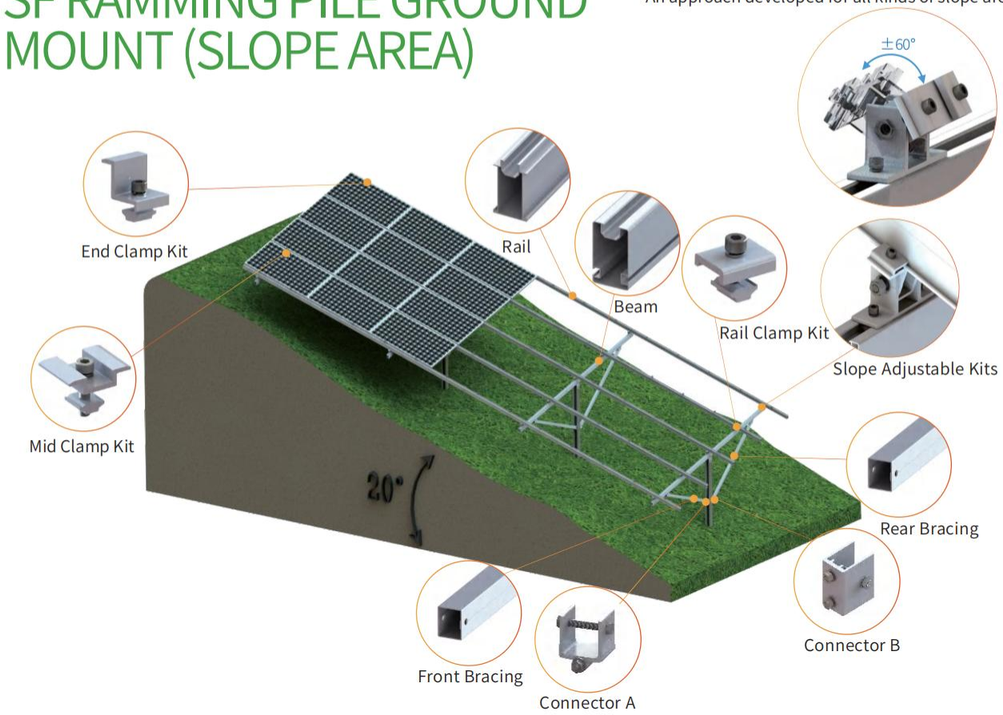
Technical Details

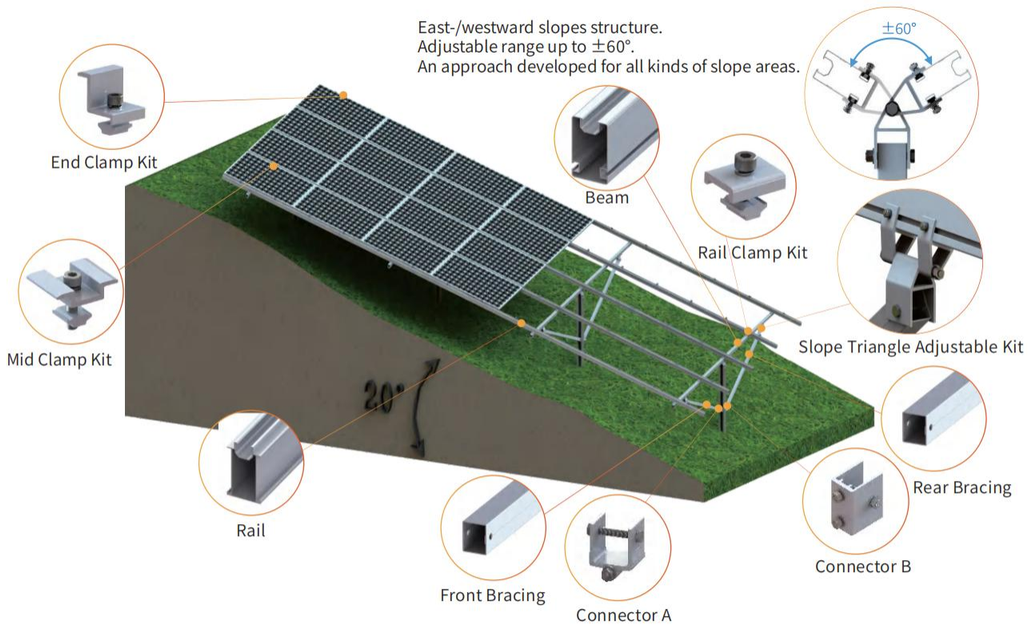
Design Description: especially suitable for hillsides and uneven ground areas.

Installation	Ground
Wind Load	up to 60m/s
Snow Load	1.4kn/m^2
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50017-2017
Material	Anodized AL6005-T5, Hot Dip Gavanized Steel, Galvanized magnesium aluminum steel, Stainless Steel SUS304
Warranty	10 Years Warranty

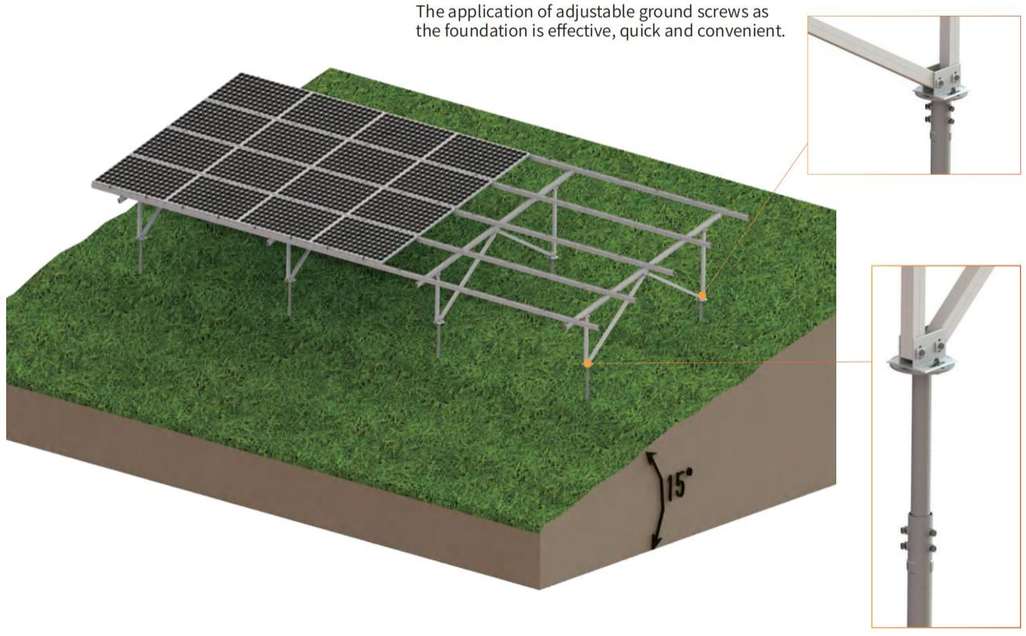
SF RAMMING PILE GROUND MOUNT (SLOPE AREA)

East-/westward slopes structure.
Adjustable range up to ±60°.
An approach developed for all kinds of slope areas.

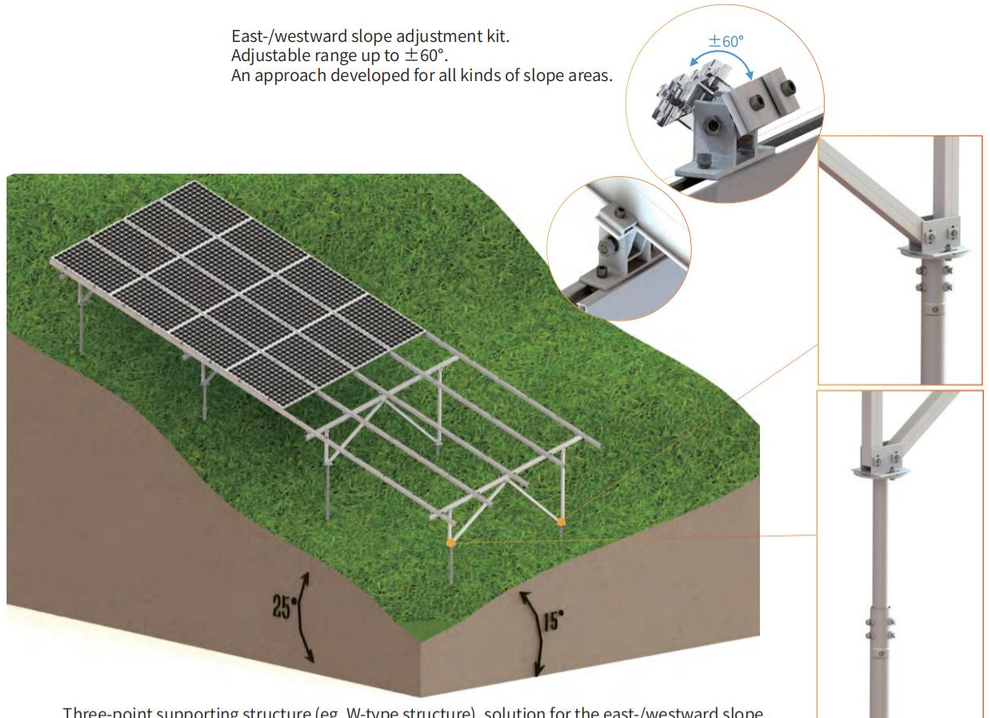




The application of adjustable ground screws as the foundation is effective, quick and convenient.

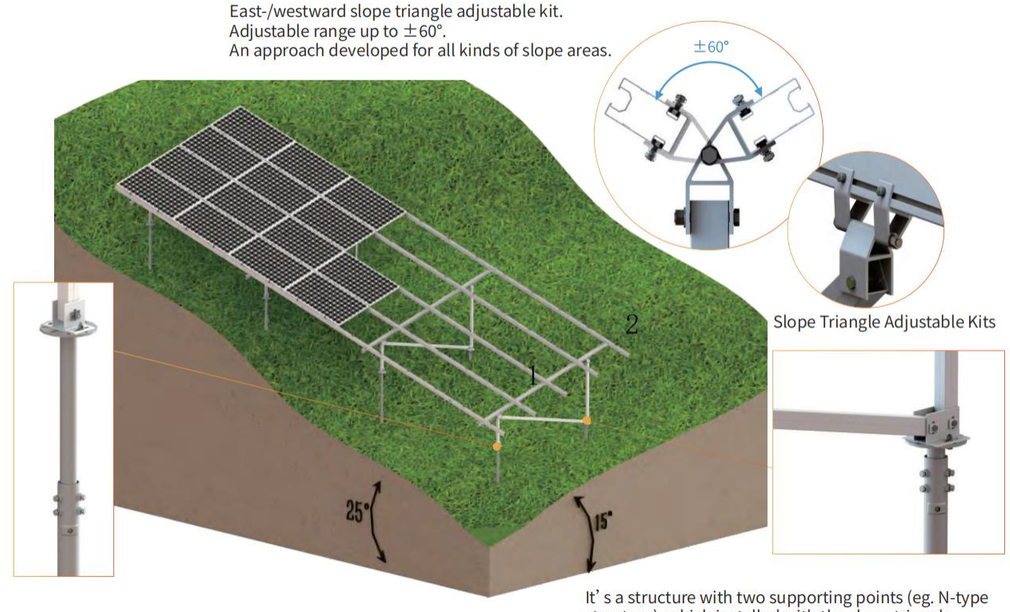


East-/westward slope adjustment kit.
Adjustable range up to ±60°.
An approach developed for all kinds of slope areas.



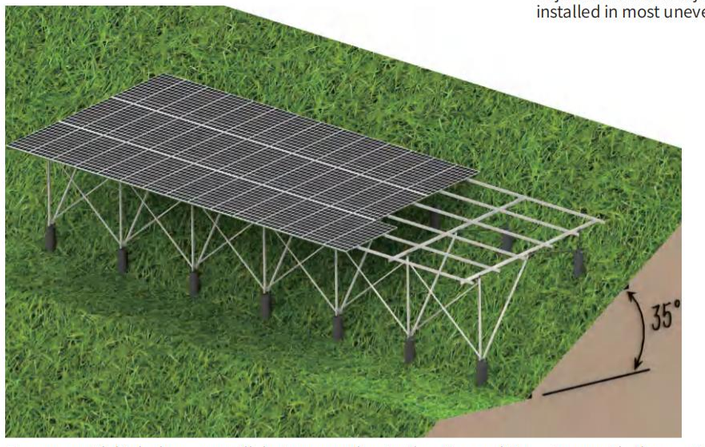
Three-point supporting structure (eg. W-type structure), solution for the east-/westward slope.
The adjustable kits + adjustable ground screws help to install the structure in uneven slope areas.

East-/westward slope triangle adjustable kit.
Adjustable range up to ±60°.
An approach developed for all kinds of slope areas.



Slope Triangle Adjustable Kits

It' s a structure with two supporting points (eg. N-type structure), which installed with the slope triangle adjustable kit and adjustable ground screws. It could be installed in most uneven slope areas.

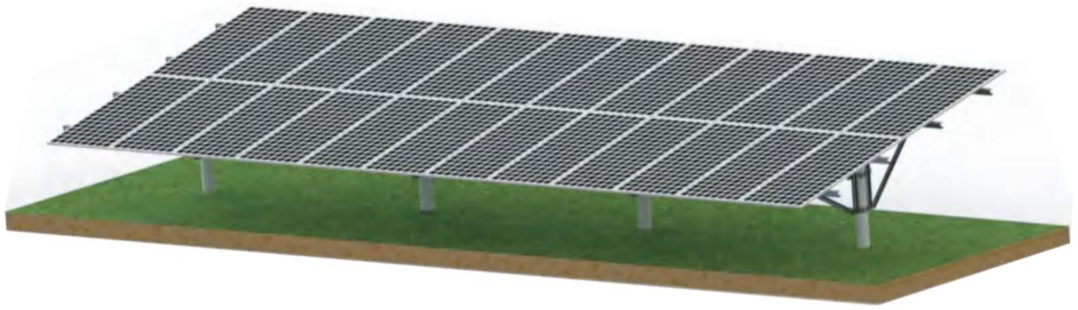


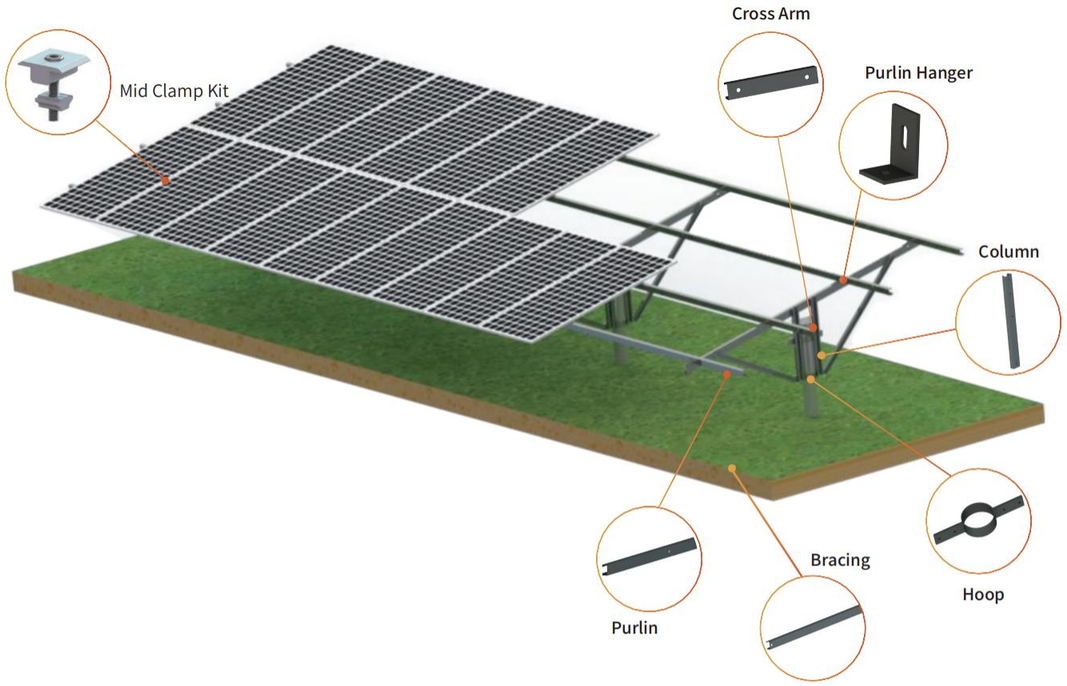
For areas with high slope, we will design according to the site conditions, to provide the most optimized, suitable and easily-installed solution, and to meet your needs.

Technical Details

Installation	Ground
Wind Load	up to 60m/s
Snow Load	1.4kn/m^2
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized AL6005-T5, Hot Dip Gavanized Steel, Galvanized magnesium aluminum steel, Stainless Steel SUS304
Warranty	10 Years Warranty

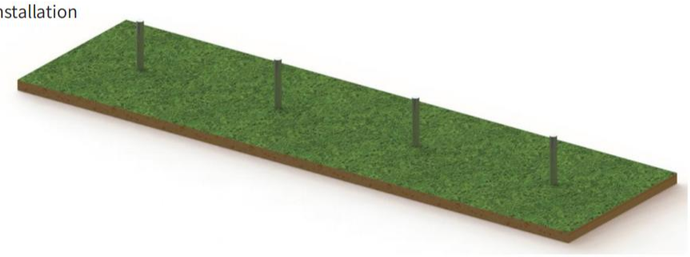
SF PHC PILE MMOUNT



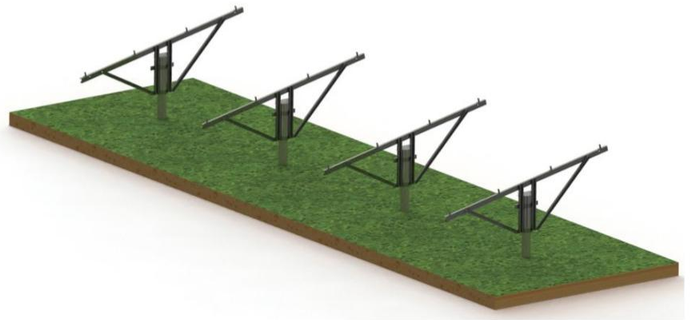


Installation Steps

01 Foundation Installation



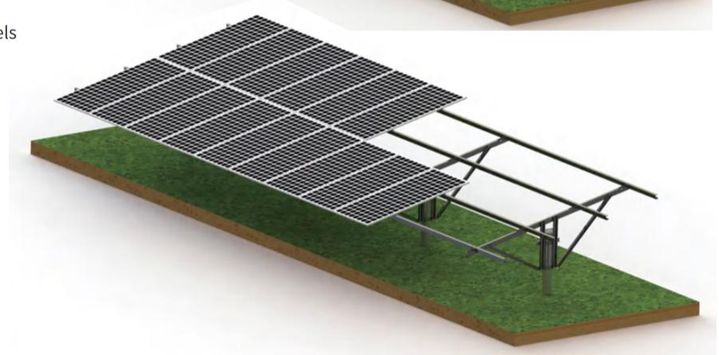
02 Install bracket



03 Install rails



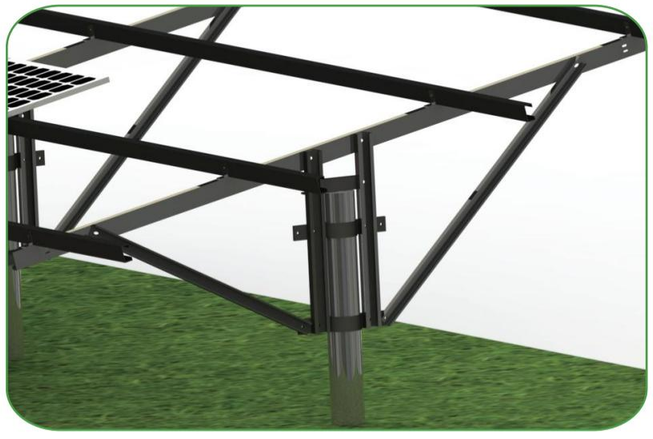
04 Install panels



Types of PHC Piles



Big Base Plate Solution
(for large size array)



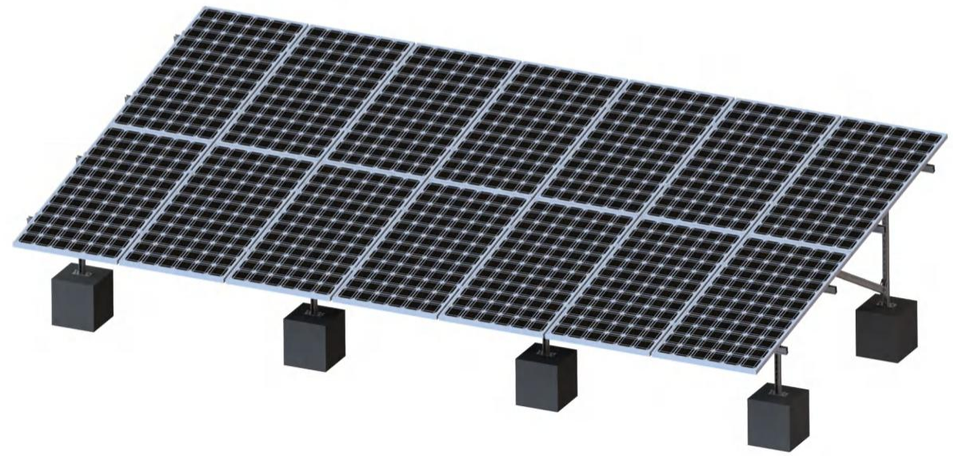
Common Solution
(for small size array)

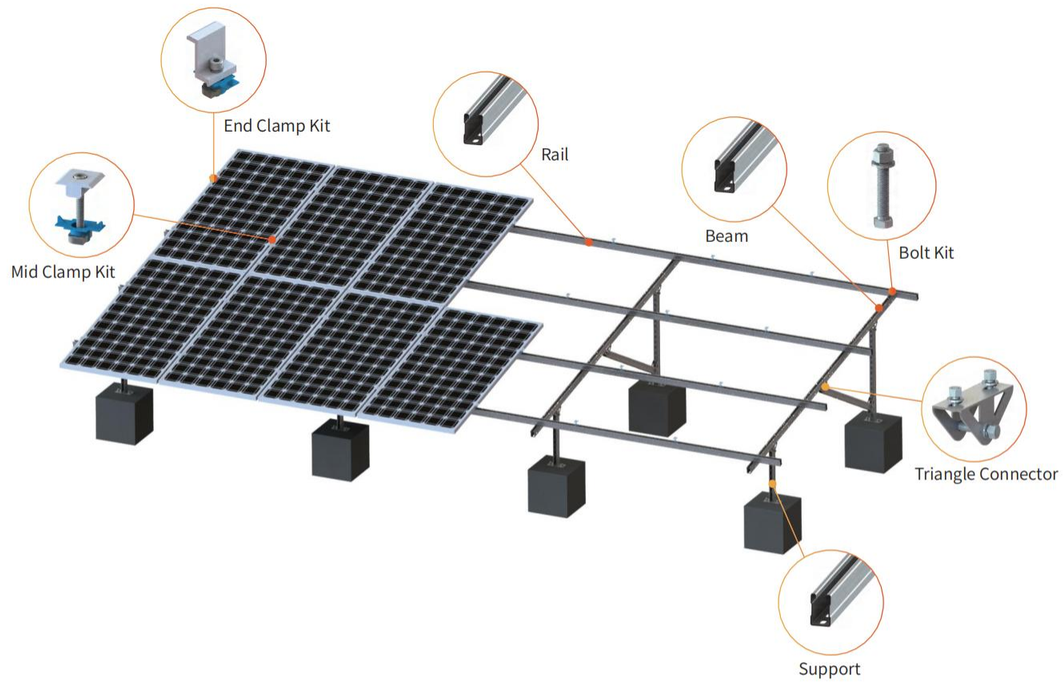
Technical Details

Design Description: 1. Applicable to water pools, marshes, wetlands or deep mud areas.
2. Particularly suitable for flood-prone areas.

Installation	Ground
Foundation	Pile Mount / High Concrete Pile (H⩾600mm)
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50017-2017
Material	Anodized Aluminum AL6005-T5, Hot Dip Galvanized Steel, Zn-Al-Mg pre-coated steel, Stainless Steel SUS304
Warrantty	10 Years Warranty

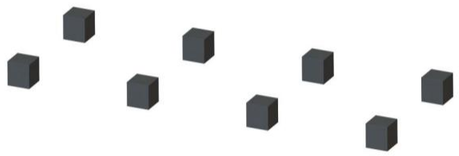
SF C-STEEL GROUND MOUNT



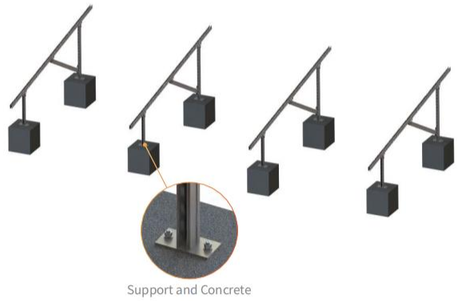


Installation Steps

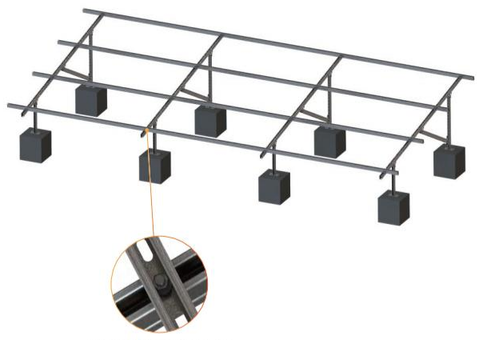
01 Position and construct concrete foundations



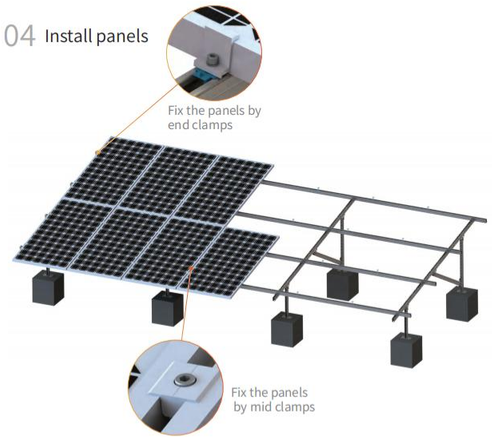
02 Intall the pre-assembled brackets



03 Intall rails



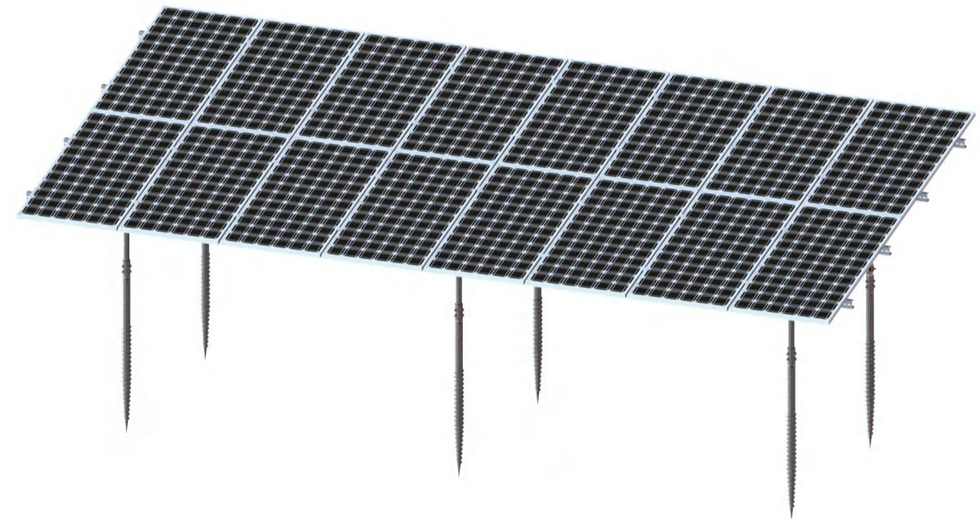
04 Install panels

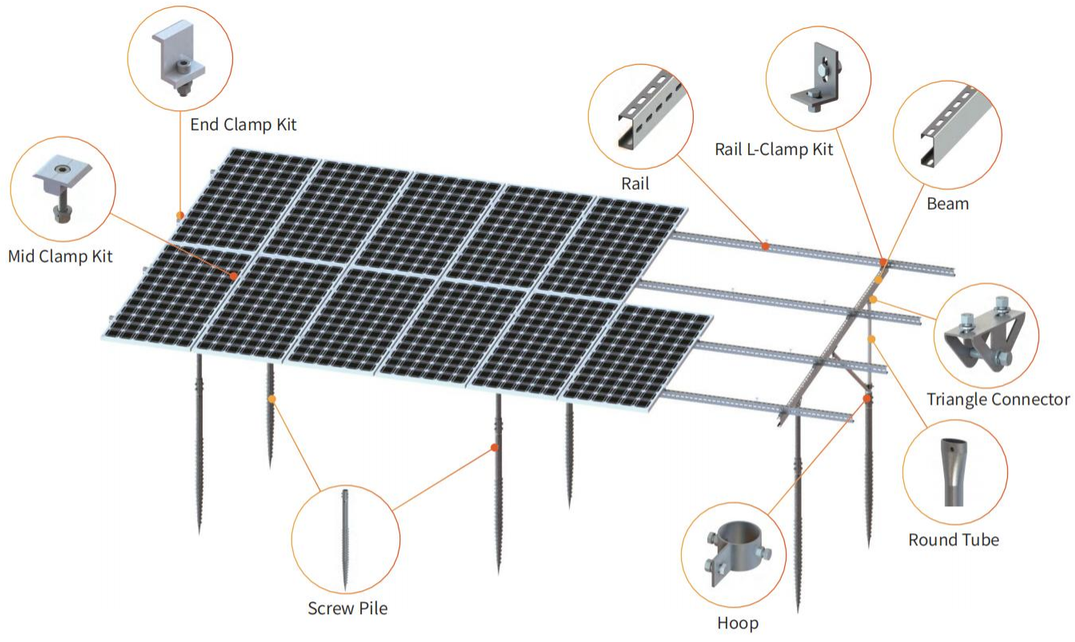


Technical Details

Installation	Ground
Foundation	Screw Pile / Concrete
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50017-2017
Material	Anodized Aluminum AL6005-T5, Hot Dip Galvanized Steel, Zn-Al-Mg pre-coated steel, Stainless Steel SUS304
Warranty	10 Years Warranty

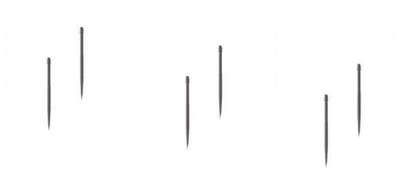
SF C-STEEL GROUND MOUNT





Installation Steps

01 Piling



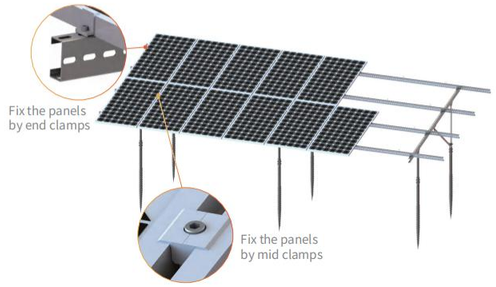
02 Install the pre-assembled brackets



03 Install rails



04 Install panels



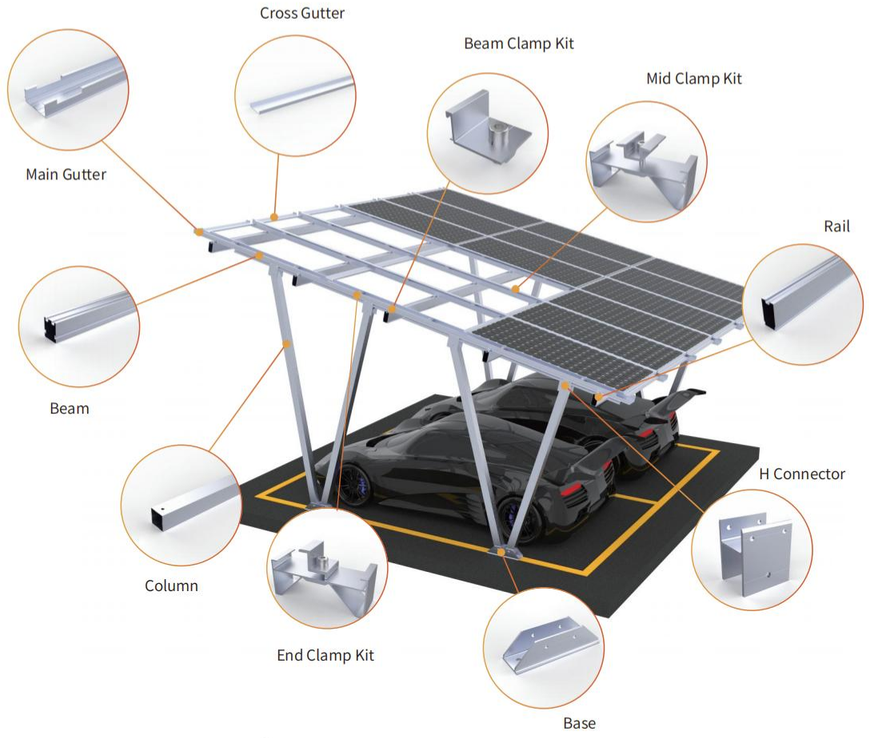
Accessories

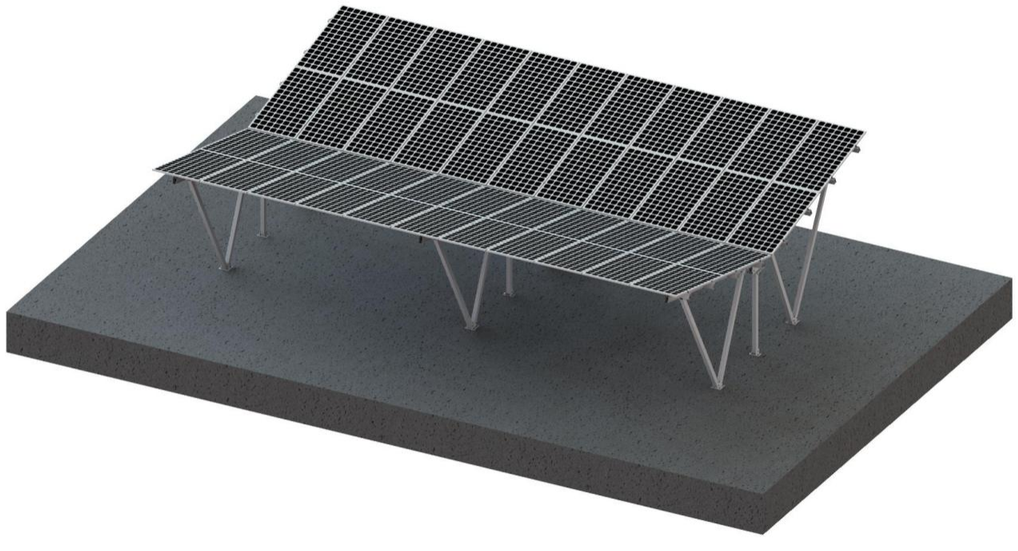


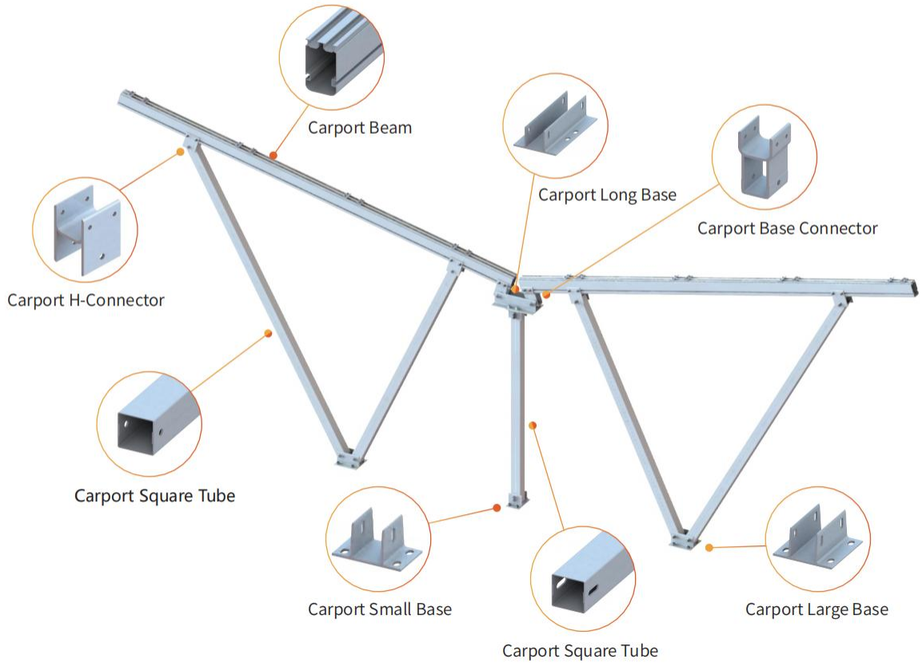
Technical Details

Installation	Ground
Foundation	Screw Pile / Concrete
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50017-2017
Material	Anodized Aluminum AL6005-T5, Hot Dip Galvanized Steel, Zn-Al-Mg pre-coated steel, Stainless Steel SUS304
Warranty	10 Years Warranty

SF ALUMINUM SOLAR CARPORT





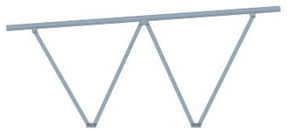


Types of Pre-assembly Brackets

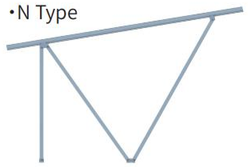
•Double V Type



•W Type



•N Type

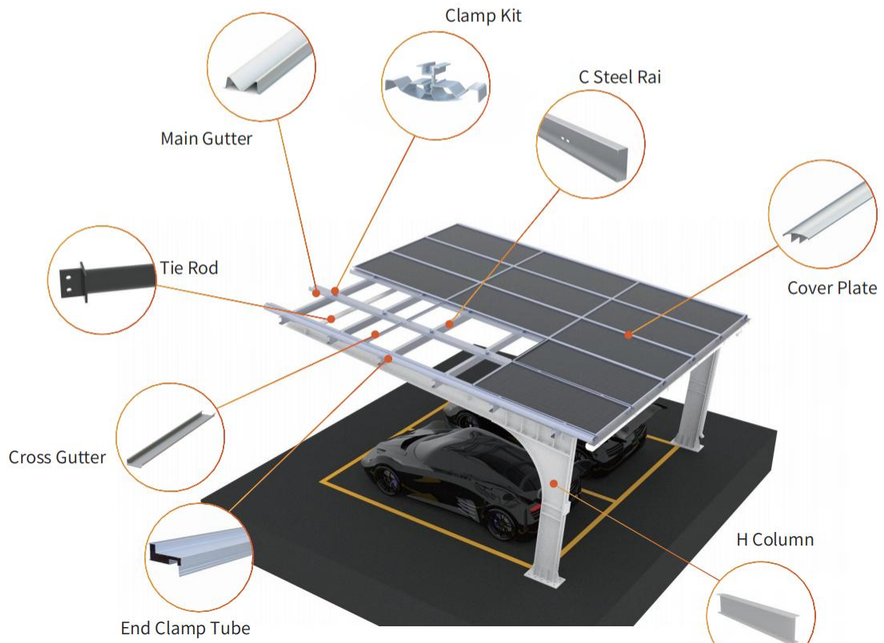


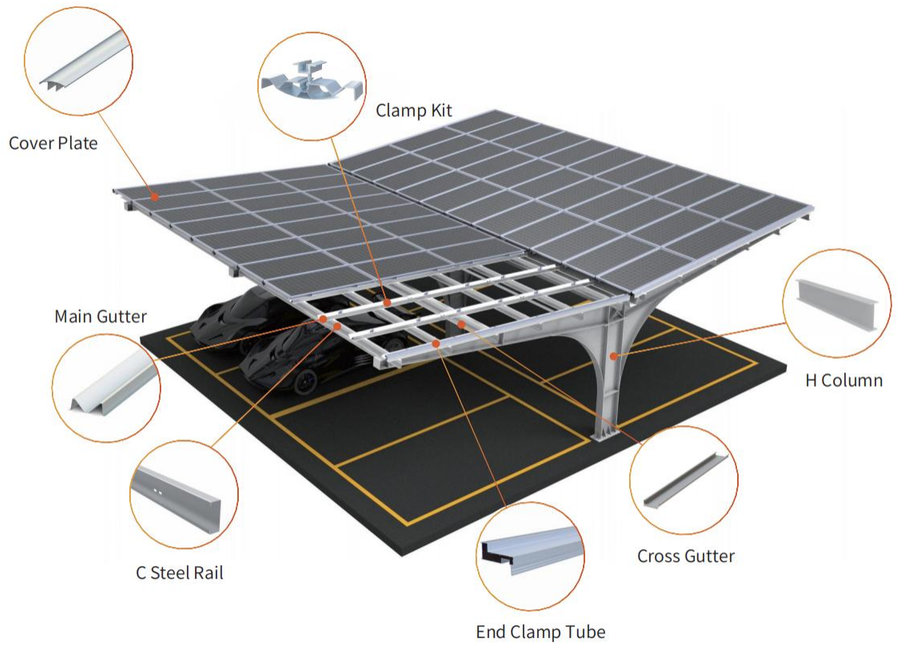
Technical Detail

Design description: The carport structure and waterproof system are made of high-strength aluminum alloy to meet customers' requirements for safety, installation convenience and aesthetics. Its special structural design allows two or four cars to be freely combined as a unit to maximize the use of space.

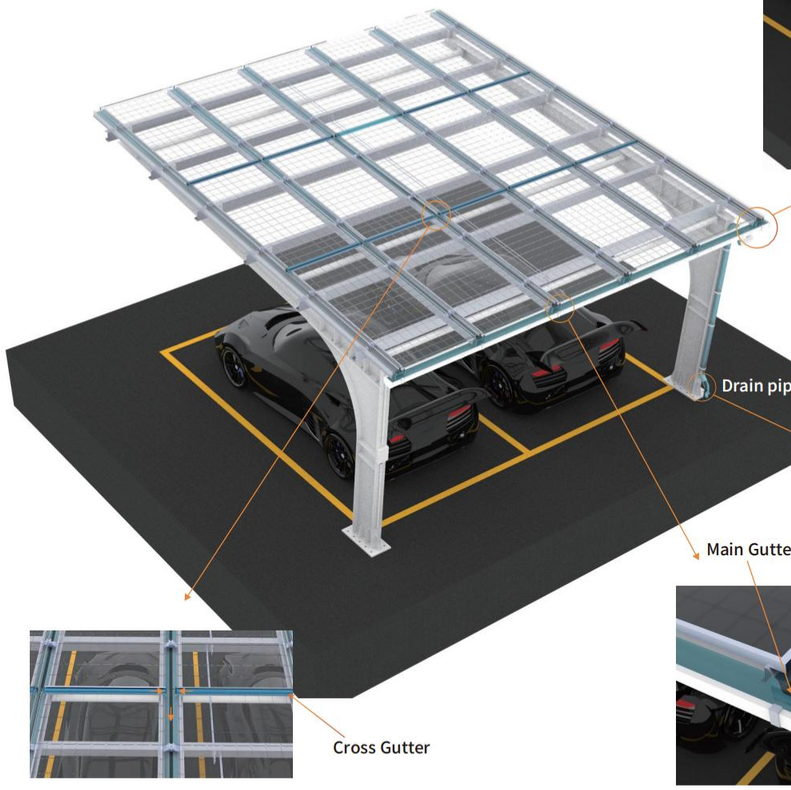
Installation	Ground
Foundation	Concrete
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Tilt Angle	0~15°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

SF STEEL CANTILEVER CARPORT



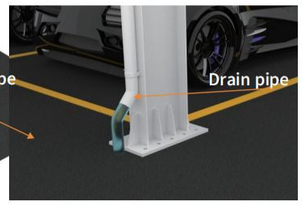


DRAINAGE OF WATER ON CARPORT

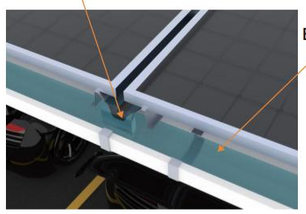




Step 3: The water in the eaves gutter flows into the plastic drainage pipe.



Step 4: Drain the water to the ground.



Step 2: The water flows along the main gutters to the eaves gutter.

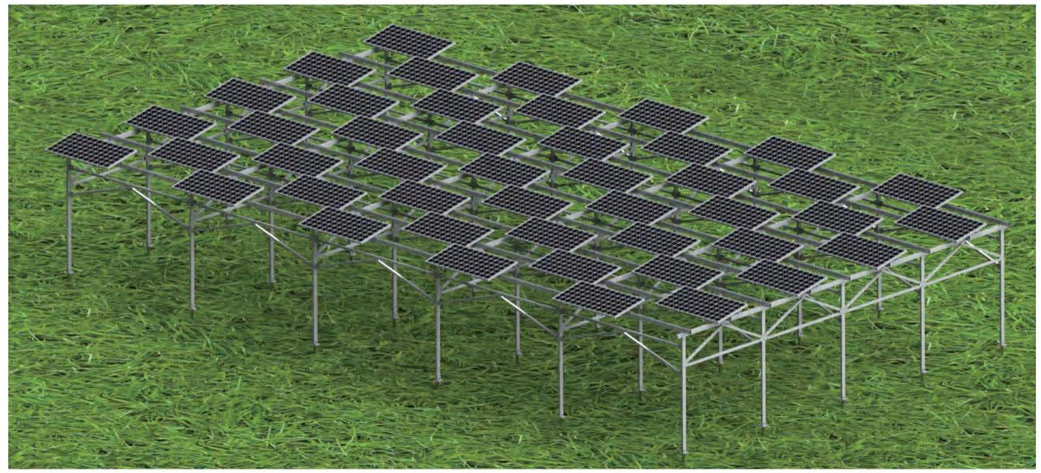
Step1: The water flows from the solar modules to the gutters around, to the vertical gutter, and then flows downward.

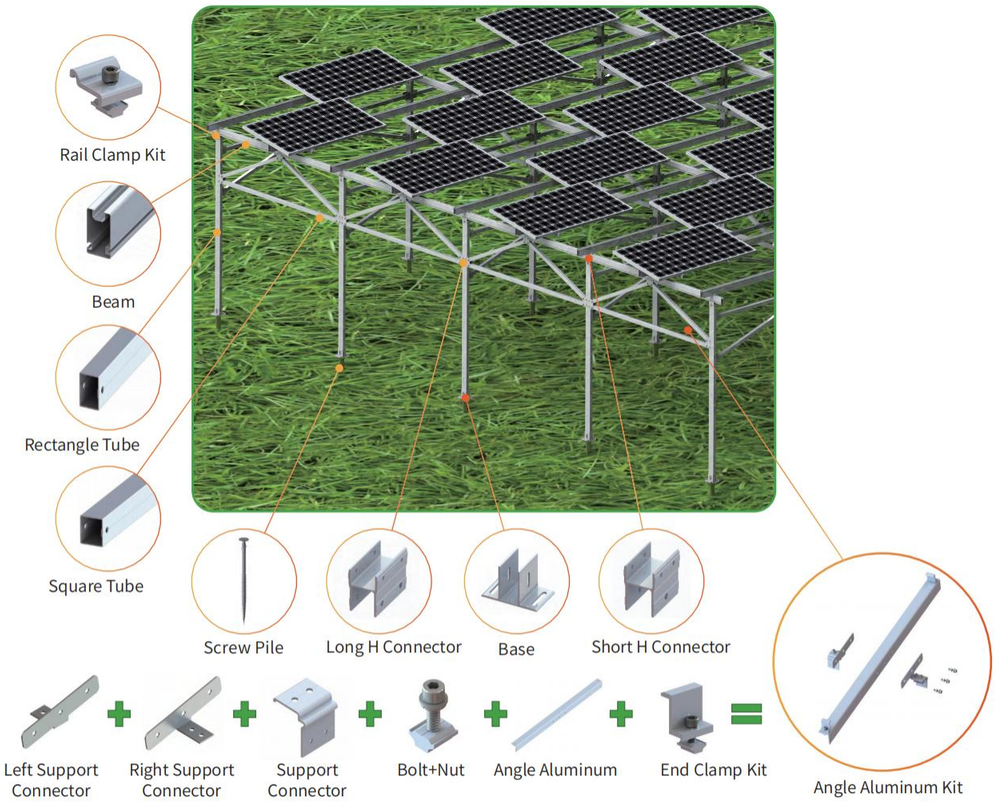
Technical Details

Design description: The main structre of the carport is made of high-strength carbon steel, the waterproof system also apply steel for safety, installation convenience and aesthetics. Its special structural design allows multiple cars to be freely combined as a unit to maximize the use of space.

Installation	Ground
Wind Load	up to 60m/s
Snow Load	1.4kn/m²
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50017-2017
Material	Anodized AL6005-T5, Hot Dip Gavanized Steel , Stainless Steel SUS304
Warranty	10 Years Warranty

SF AGRICULTURAL SOLAR MOUNT





Installation Steps

01 Install the pre-assembled brackets (a pre-assembled set)



02 Install beam supports (a pre-assembled set)



03 Install other pre-assembled brackets and beam supports



04 Install side supports (a pre-assembled set)



05 Install rails



06 Install panels

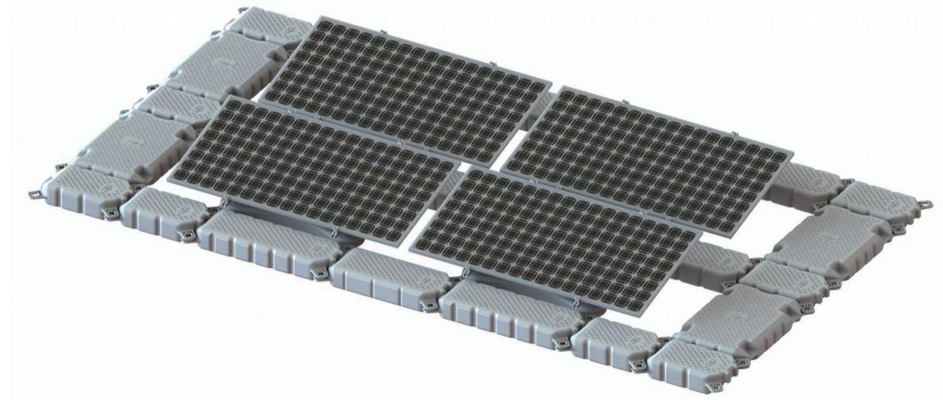


Technical Details

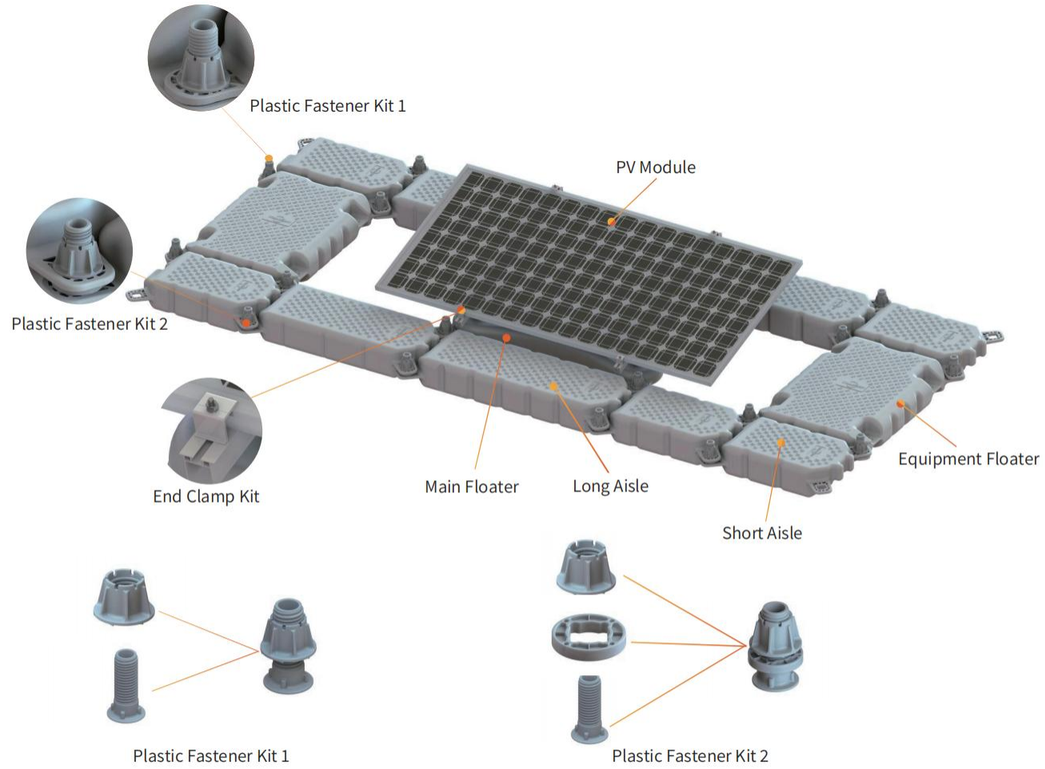
Design Description: This solution allows solar panels to generate power from sunlight, while its lower structure provides a suitable growing environment for crops, edible fungi and livestock.

Installation	Ground
Foundation	Screw Pile/ Concrete
Wind Load	up to 60m/s
Snow Load	1.4kn/m^2
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017,GB50429-2007
Material	Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

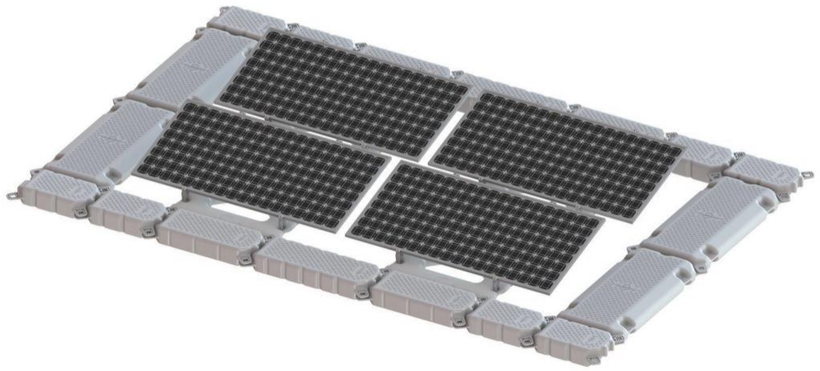
SF FLOATING SOLAR MOUNT (TGW01)



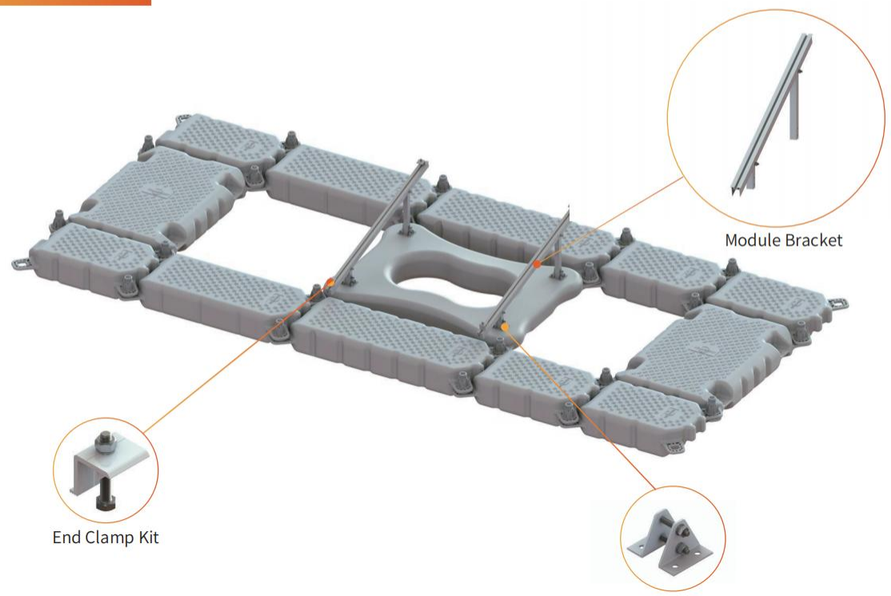
Floating Mounting System



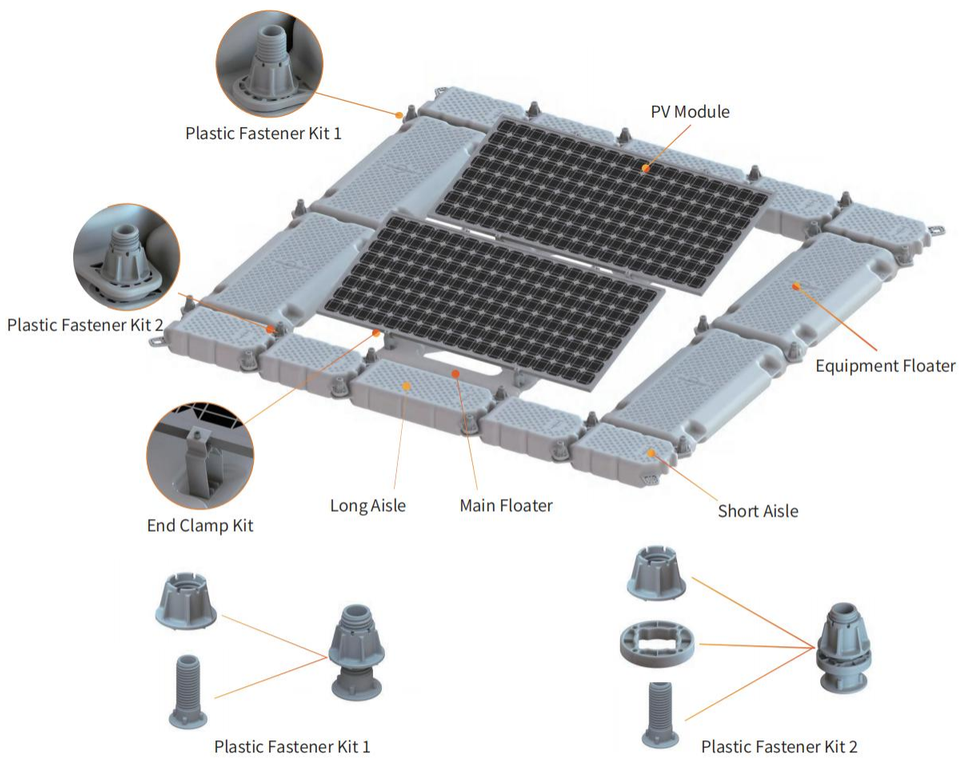
SF FLOATING SOLAR MOUNT (TGW02)



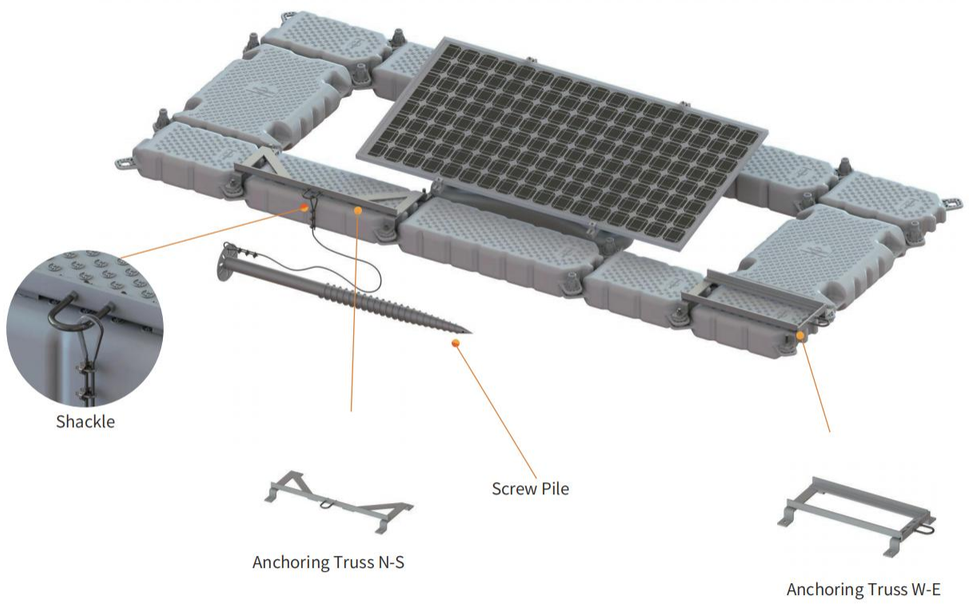
Structure



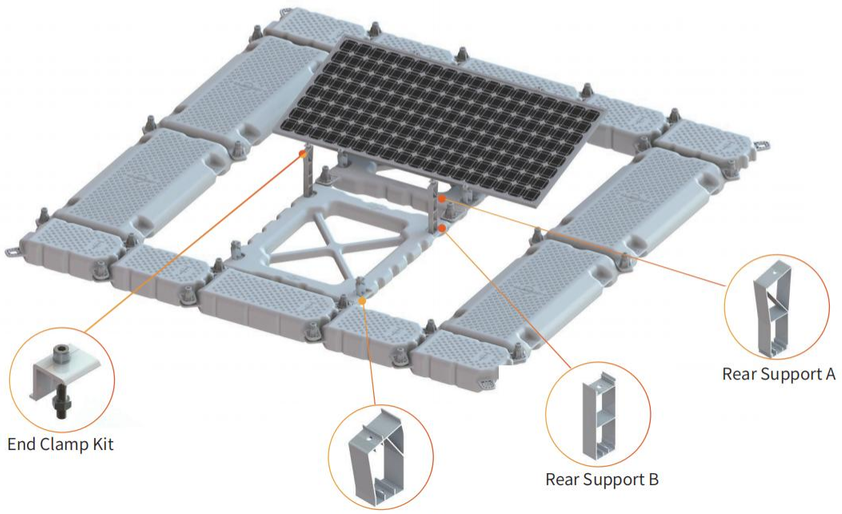
Floating Mounting System



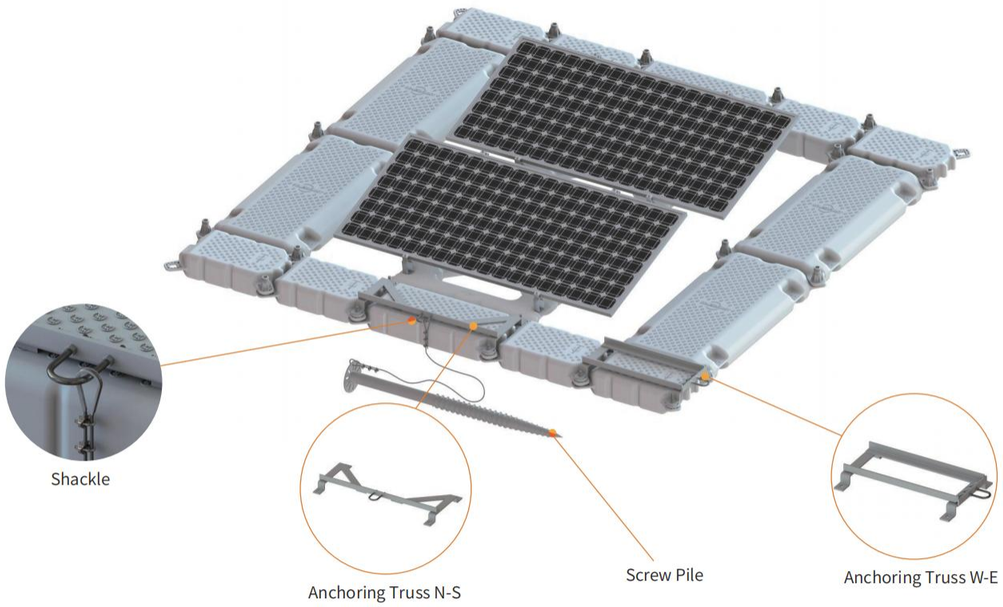
Anchoring System



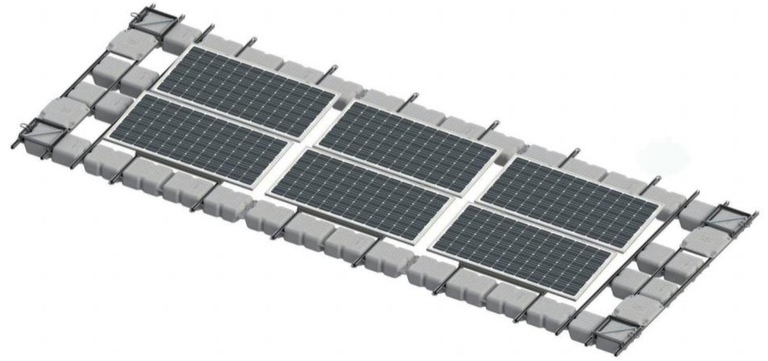
Structure



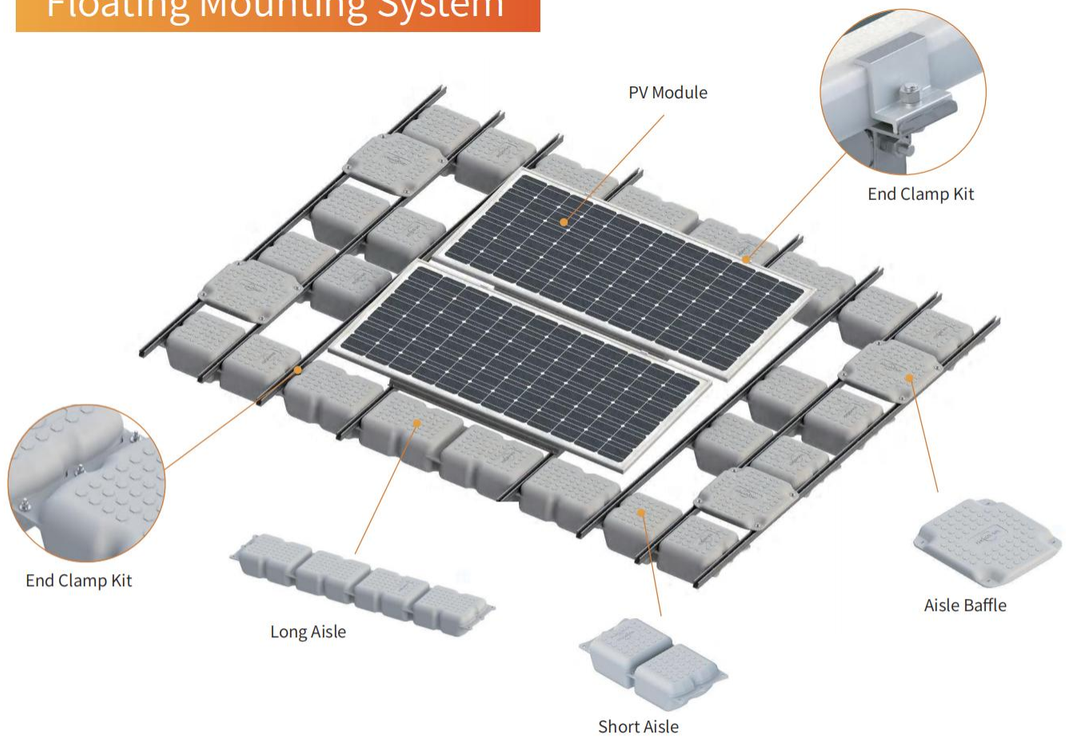
Anchoring System



SF FLOATING SOLAR MOUNT (TGW03)



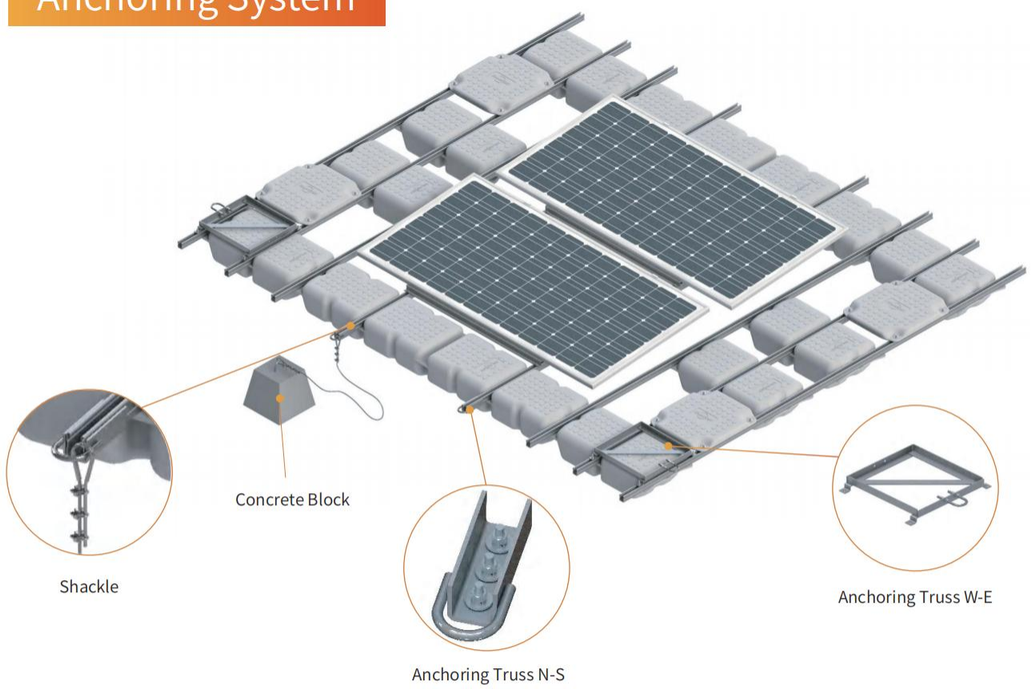
Floating Mounting System



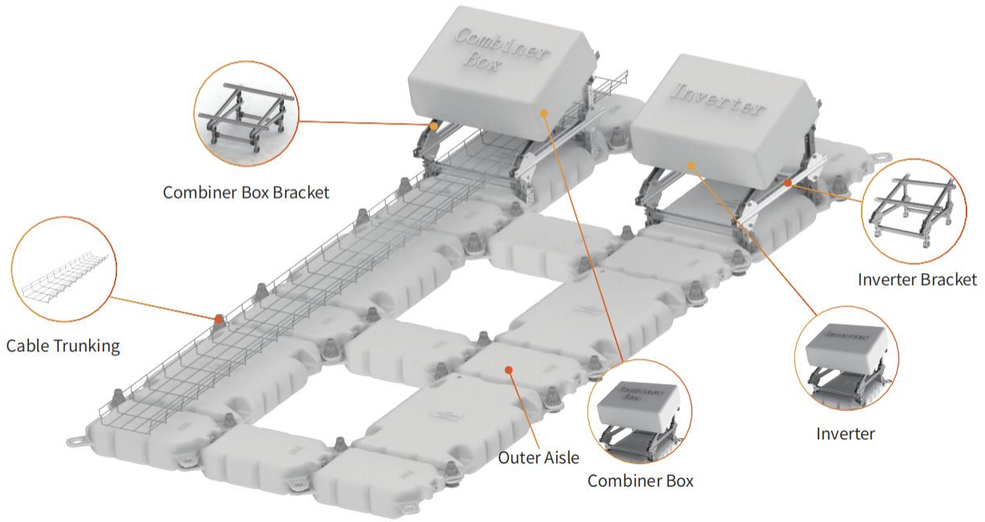
Structure



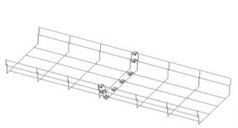
Anchoring System



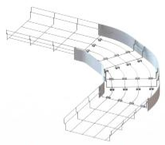
Combiner Box Bracket, Cable Trunking, Walkway



Types of Trunkings

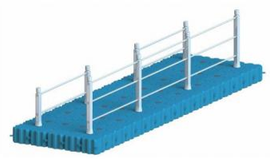


Straight Trunking

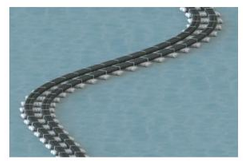


Turning Trunking

Visiting Aisle



Cable Walkway



Technical Details

Design Description: 1. Reduce water evaporation, and utilize the cooling effect of water to increase the power generation.
2. The bracket is made of fireproof metal.
3. Easy to install without heavy equipment; safe and convenient to maintain.

Installation	Water Surface
Surface Wave Height	⩽0.5m
Surface Flow Rate	⩽0.5m/s
Wind Load	⩽36m/s
Snow Load	⩽0.45kn/m²
Tilt Angle	0~25°
Standards	GB50009-2012, EN1990:2002, ASE7-05, AS/NZS1170, JIS C8955:2017
Material	HDPE, Anodized Aluminum AL6005-T5, Stainless Steel SUS304
Warranty	10 Years Warranty

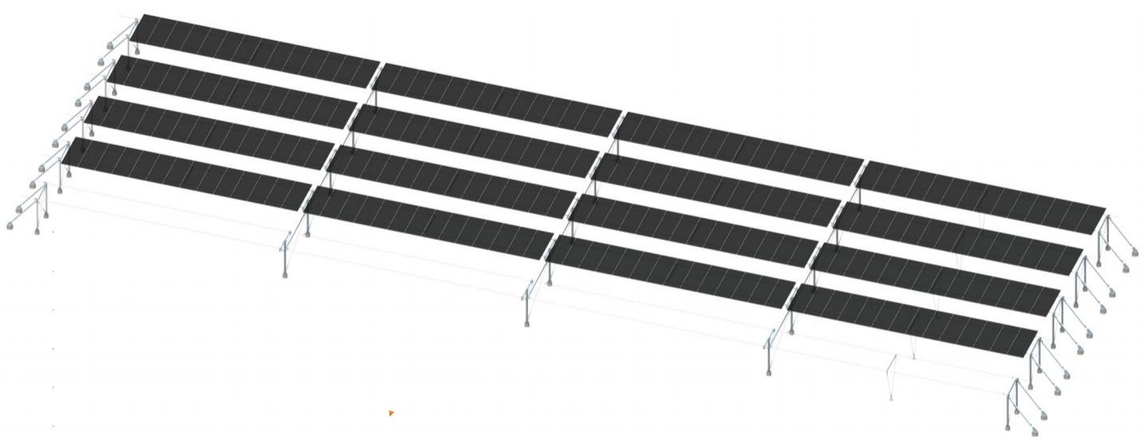
SF SINGLE LAYER FLEXIBLE MOUNTING SYSTEM

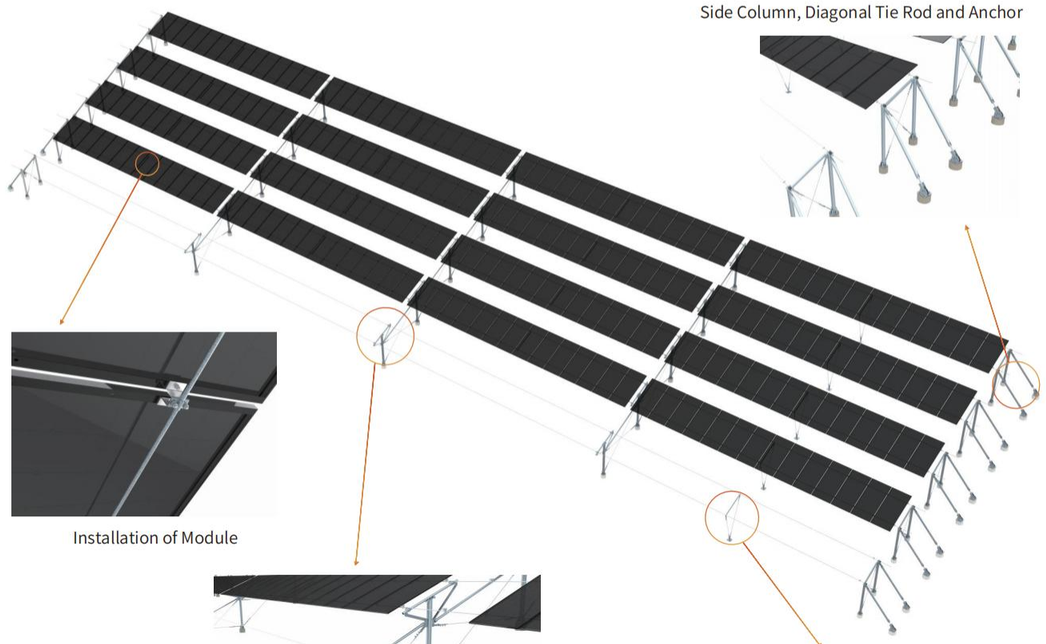
Product description

- **Larger Span:**
  it generally has a span of half string (15-20m).
- **High Clearance:**
  normally under 6 meters
- **Less Foundations:**
  Save about 20% compared with conventional fixed structure foundations (according to the array design).
- **Less steel:**
  30% less than the fixed structure (fixed structre about 20 tons).
- **Wider terrain adaptability:**
  applicable for the installation in irregular mountainous terrain, hills,deserts, ponds etc.



- Simple structure; once tensioning; convenient construction.
- In some environments,wind cables should be used to improve wind resistance.
- High cost performance; improve the utilization rate of land.





Side Column, Diagonal Tie Rod and Anchor

Installation of Module

Middle Column, Beam and Inter-Column Bracing of Middle Column

Wind Resistance Strand

Technical Details

Installation	Ground
Foundation	PHC/Cast-in-place Pile
Modules Layout	Single Row in Portrait
Single span	⩽20 m
Wind Load	0.45KN/㎡ (Adjustable according to the project)
Snow Load	0.15KN/㎡ (Adjustable according to the project)
Tilt Angle	⩽30°
Standards	GB 50009-2012、GB 50017-2017、NB/T 10115-2018、JGJ257-2012、JGJT 497-2023
Material	Anodized Aluminum AL6005-T5, Hot Dip Galvanized Steel, Zn-Al-Mg pre-coated steel, Stainless Steel SUS304
Warranty	10 Years Warranty

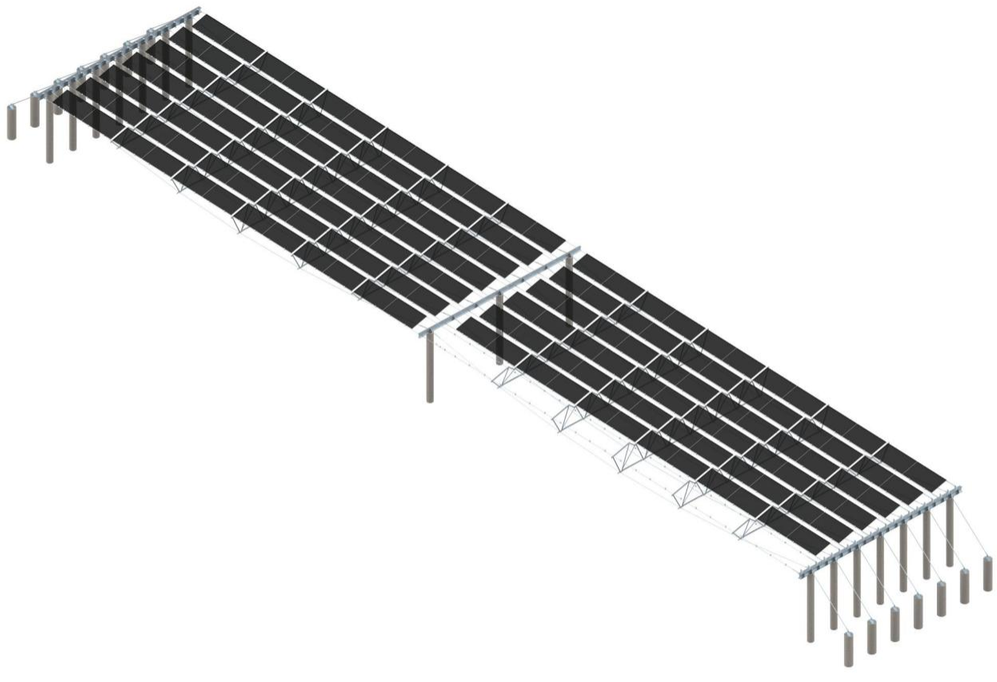
SF DOUBLE-LAYER FLEXIBLE MOUNTING SYSTEM

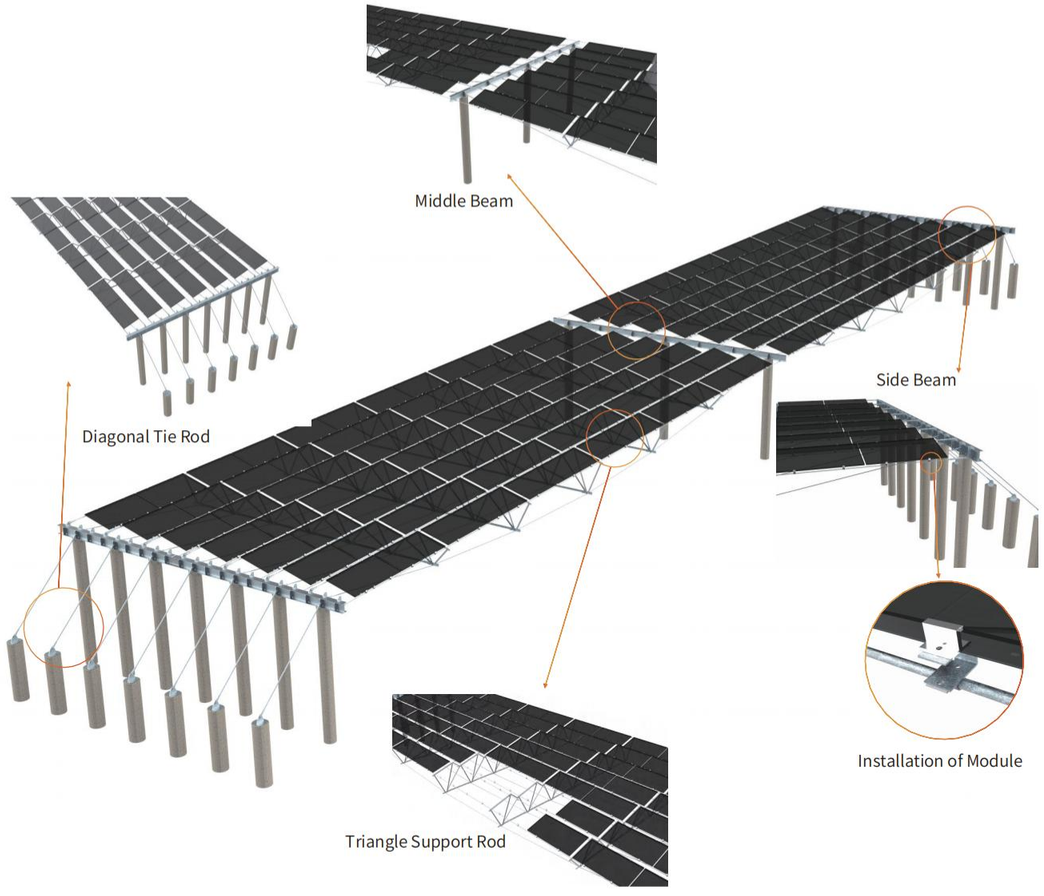
Product description

- **Larger Span:**
  it generally has a span of one (30-40m) string
- **High Clearance:**
  normally under 6 meters
- **Less Foundations:**
  Save about 55% compared with conventional fixed structure foundations (according to the array design).
- **Applicable Terrain:**
  Irregular mountainous terrain, hills, deserts, ponds, etc.
- **Cable Frame Structure:**
  good wind resistance



- **Installation:**
  Great overall stiffness (wind resistance) of the double layer structure, but higher requirements on the construction and installation.
- **Application Scenario:**
  sewage treatment plant, agrivoltaic project, fishery-voltaic project, etc





Technical Details

Installation	Ground
Foundation	PHC/Cast-in-place Pile
Modules Layout	Single Row in Portrait
Single span	⩽50 m
Wind Load	0.45KN/㎡ (Adjustable according to the project)
Snow Load	0.15KN/㎡ (Adjustable according to the project)
Tilt Angle	⩽15°
Standards	GB 50009-2012、GB 50017-2017、NB/T 10115-2018、JGJ257-2012、JGJT 497-2023
Material	Anodized Aluminum AL6005-T5, Hot Dip Galvanized Steel, Zn-Al-Mg pre-coated steel, Stainless Steel SUS304
Warranty	10 Years Warranty

SF FENCE

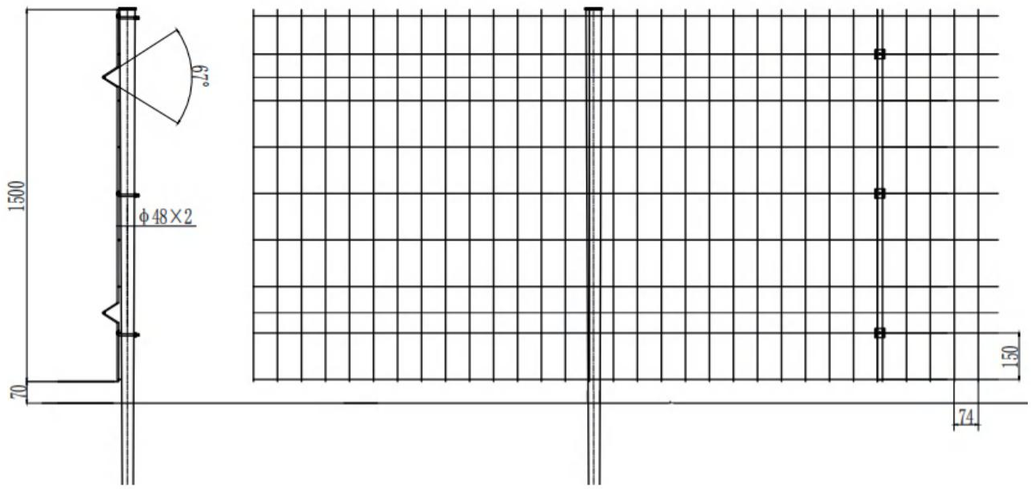


Why Fence

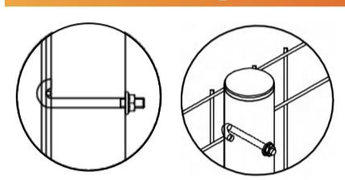
- To effectively protect personnel safety both inside and outside the project site.
- To prevent theft.

Advantage

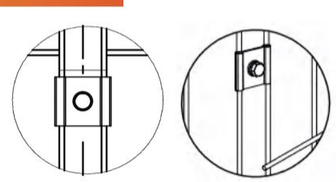
- Applicable to flat ground, as well as slopes at a certain inclination.
- A simple protective fence with high strength, high durability, high quality and low cost.
- Install easily, save labor costs.



Connecting Accessories



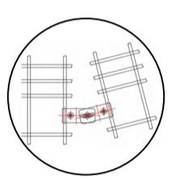
Connection between Column and Net (J bolt)



Connection between Nets (Connector)

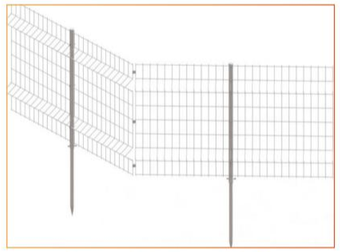


Connection at Corner



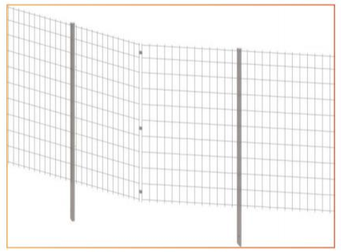
Connection on Slope

Foundation & Size



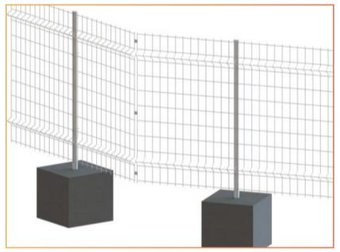
Screw Pile Foundation

Net Height (mm)	Φ48 Column Length (mm)	Screw Pile (mm)
1000	1070	800
1200	1270	800
1500	1570	800
1800	1870	1000
2000	2070	1000



Column Foundation

Net Height (mm)	Φ48 Column Length (mm)	Buried Depth (mm)
1000	1870	800
1200	2070	800
1500	2370	800
1800	2870	1000
2000	3070	1000



Concrete Foundation

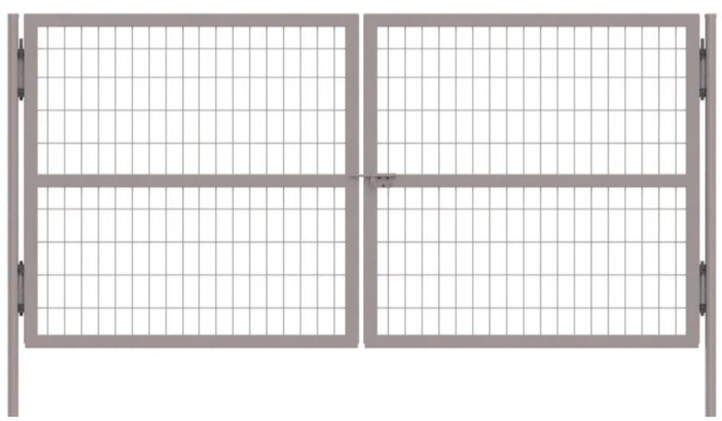
Net Height (mm)	Φ48 Column Length (mm)	Buried Depth (mm)
1000	1470	400
1200	1670	400
1500	1970	400
1800	2370	500
2000	2570	500

Size may be customized

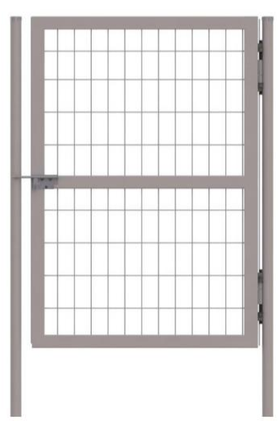
Component List

No.	Description	Dimension (mm)	Material	Surface Treatment	Unit
1	Mesh	ϕ3.5*L2000	steel	plastic dipping or galvanization	piece
2	Column	ϕ48*T2	steel	plastic dipping or galvanization	piece
3	Screw Pile	ϕ38	steel	hot dip galvanization	piece
4	Connector	/	aluminum/stainless steel	anodization	set

Double Gate



Single Gate



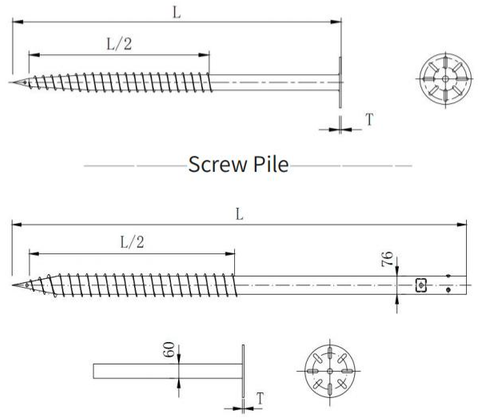
SF ACCESSORIES

Screw Pile

Apply carbon steel Q235 with HDG coating ⩾80μm, excellent in corrosi on resistance.
Custom-made solutions are available.

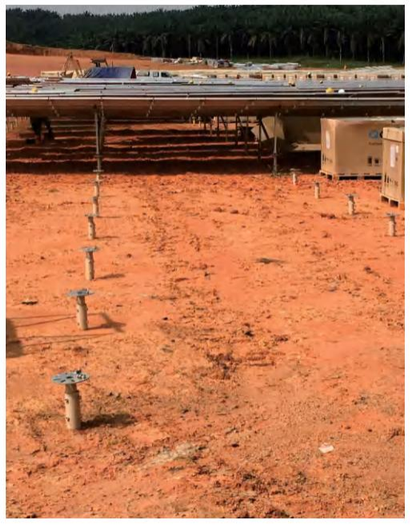


•DRAWING•



Screw Pile

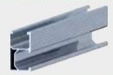
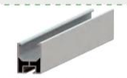
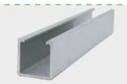
Adjustable Screw Pile





Accessories

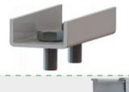
The accessories are made of anodized aluminum 6005-T5.
The fasteners are made of SUS304.

No.	Product Name	Picture
SF-DR05-L	Rail	
SF-DR06-L	Rail	
SF-HR-L	Rail	
SF-UR-L	Rail	





The installation of rail connector

SF-DR05-SP	Rail Connector	
SF-HR-SP	Rail Connector	
SF-RC-A	Rail Clamp Kit	

Grounding Accessories

Conduct the static electricity on the mount into the ground.

SF-FL-GC-01	SF-FL-GC-02	SF-FL-GC-03	SF-FL-GC-04
			
SF-FL-GC-05	SF-FL-GC-06	SF-FL-GC-07	SF-FL-GC-08
			
SF-FL-GC-09	SF-FL-GC10	SF-FL-GC11	SF-FL-GC-12
			

Cable Clip

SF-CC-01	SF-CC-02	SF-CC-03	SF-CC-04	SF-CC-05
				

Module Clamps for Frameless Module

No.	Product Name	Picture
SF-BM-EC80	Frameless Module End Clamp Kit	
SF-BM-IC80	Frameless Module End Clamp Kit	

PROJECT REFERENCE


Aluminum Mount, Malaysia 23MWp


Aluminum Mount, Malaysia 36MWp

PROJECT REFERENCE


Aluminum Mount, Malaysia 37MWp


Aluminum Mount, Malaysia 6.8MWp

PROJECT REFERENCE


Steel Mounting Structure, Malaysia 75MWp


Steel Mounting Structure, Malaysia 73MWp

PROJECT REFERENCE


Aluminum Mount, Miyazaki Japan 880KWp


Aluminum Mount, Japan 1MWp


Aluminum Mount, Hokkaido Japan 1.7MWp

PROJECT REFERENCE


Aluminum Mount, Miyazaki Japan 1.74MWp


Aluminum Mount, Armenia 1MWp

PROJECT REFERENCE



Aluminum Mount, Armenia 1.1MWp



Steel Mounting Structure, Armenia 6.6MWp

PROJECT REFERENCE

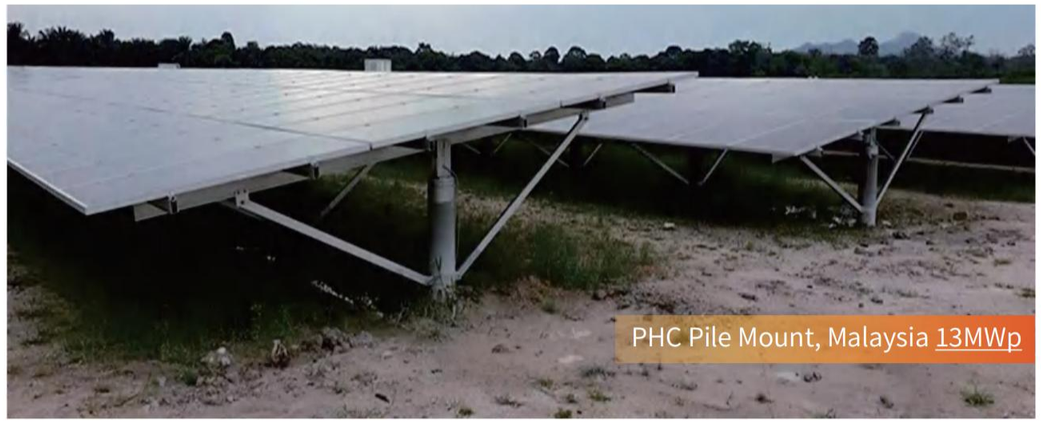


Steel Mounting Structure, Bosnia and Herzegovina 711.7MWp



Steel Mount, Thailand 4.8MWp

PROJECT REFERENCE


PHC Pile Mount, Malaysia 13MWp


PHC Pile Mount, Vietnam 108MWp


Ramming Pile Mount, Malaysia 48.9MWp

PROJECT REFERENCE


Agricultural Mount, Vietnam 15MWp


Agricultural Mount, Japan 90KWp


Waterproof Carport, Malaysia 1.6MWp

PROJECT REFERENCE


Waterproof Carport, Senegal 70KWp


Metal Roof Mount, Armenia 700KWp


Metal Roof Mount, India 552KWp

PROJECT REFERENCE


Metal Roof Mount, Japan 286KWp


Metal Roof Mount, Malaysia 5.8MWp

PROJECT REFERENCE


Metal Roof Mount, Malaysia 4MWp


Metal Roof Mount, Thailand 8.8MWp

PROJECT REFERENCE


BIPV Roof Mount,
Fujian China 4MWp


BIPV Roof Mount,
Guangxi China 2.1MWp


BIPV Roof Mount,
Guangdong China 5.6MWp

PROJECT REFERENCE



Flexible Mounting Structure,
Yunnan China 36MWp



Flexible Mounting Structure,
Shandong China 1.9MWp

PROJECT REFERENCE



Floating Solar Mount, Thailand 8MWp



Floating Solar Mount, Hungary 5MWp