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www.xmtopenergy.com **xmtopfence.en.alibaba.com**

SOLAR SYSTEM & GENERATION SOLUTION

Xiamen TopFence Co., Ltd.

Welcome W

Content

01 Company Profile
02 Company History
03 Certifications, Patents, and Partners
04 Exhibitions
05 One-stop Energy Storage System Solution
09 Off-Grid Solar System
11 On-Grid Solar System
13 Hybrid Solar System
15 Solar Carport System
17 Metal Roof Mounting System
19 Cement Roof Mounting System
21 Solar Balcony System
22 Mounting Accessories
25 Solar Ground Mounting System
27 Solar Farm Mounting System
28 Solar Tracking System
29 Fences
31 Steel Grating
32 FRP Molded Grating
33 Solar Bird Fence
34 Cable Tray
35 Inspection Process
36 Related Products
37 Case Pictures

Company Profile

XIAMEN TOPFENCE CO., LTD. is a high-tech photovoltaic enterprise that specializes in the development, design, and construction of solar photovoltaic ground power stations, distributed photovoltaic, micro-grid, and off-grid projects. We are committed to providing cutting-edge technology and efficient services. Our product range includes photovoltaic brackets, agricultural greenhouses, fences, grass-proof cloth, ground screws, and cables. These products have been successfully exported to various countries and regions, including Japan, the United States, Australia, Europe, the Middle East, Africa, and Southeast Asia, with numerous cases of installation in ultra-high voltage projects.

We have integrated new-generation information technologies such as artificial intelligence, the Internet of Things, energy storage, energy Internet, and intelligent manufacturing into our products. We have launched photovoltaic tracking systems, photovoltaic fixed brackets, water surface floating brackets, and BIPV computing system solutions. Our team consists of highly skilled engineers who ensure the quality and reliability of our products.

Our products are certified by UL, TUV, CE, and MCS. They have undergone thorough testing in accordance with the requirements of AS/NZS1170 standards. Additionally, we have conducted wind tunnel tests and obtained global authoritative certifications in many countries and regions. We have established long-term and stable strategic partnerships with several powerful Fortune 500 companies.

Why Choose Us

01 Own factory, complete industrial chain

02 Guaranteed transport and short delivery time

03 One-stop service with a wide range of solar products

04 Experienced engineers offer technical support and after-sales service

05 Work with global manufacturers to offer certified high-quality products

06 Solar PV mounting systems undergo rigorous testing for reliability guarantee

Company History

XIAMEN TOPFENCE CO.，LTD. is a professional photovoltaic mounting manufacturer based in China, offering solar power generation systems for large-scale construction projects. Our company has recently founded Top Fence Co., Ltd. to further develop operations abroad, focusing on markets such as Japan, Europe, America, South America, Southeast Asia, and the Middle East. In addition, we have established Top Industries Co., Ltd. in Japan to provide customers with more substantial customer maintenance services, with plans to equip warehouses in the future and offer customizable products to provide reliable and efficient solutions.

C Certifications, Patents, and Partners

JA SOLAR · 一期一会 ICHIGO · いちご ICHIGO · CanadianSolar · KSTAR 科士达 · SAJ · 上能电气 SINENG

GOODWE · HUAWEI · Growatt · risen · ITOCHU · TBEA 特变电工 · 阳光电源 SUNGROW

CHNT · JinKO Solar · LONGi · SUNTECH · novis · Sky Japan · WWB 株式会社

E Exhibitions

Xiamen TopFence Co., Ltd.

One-stop Energy Storage System Solution

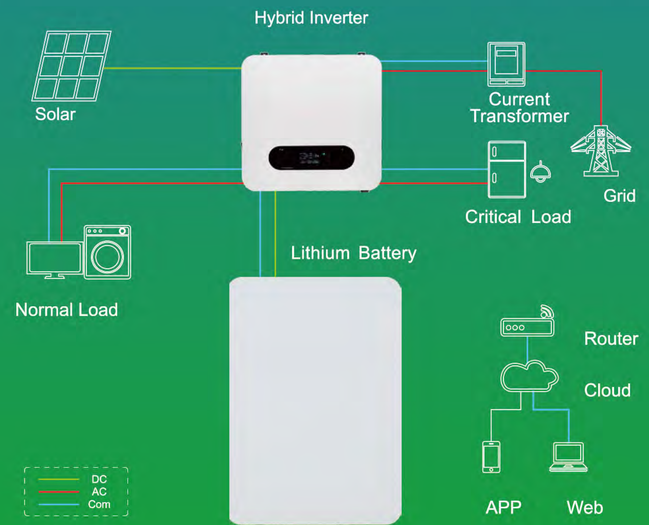
Residential Energy Storage Battery Series

On-Grid Solar System | Hybrid Solar System | Balcony System

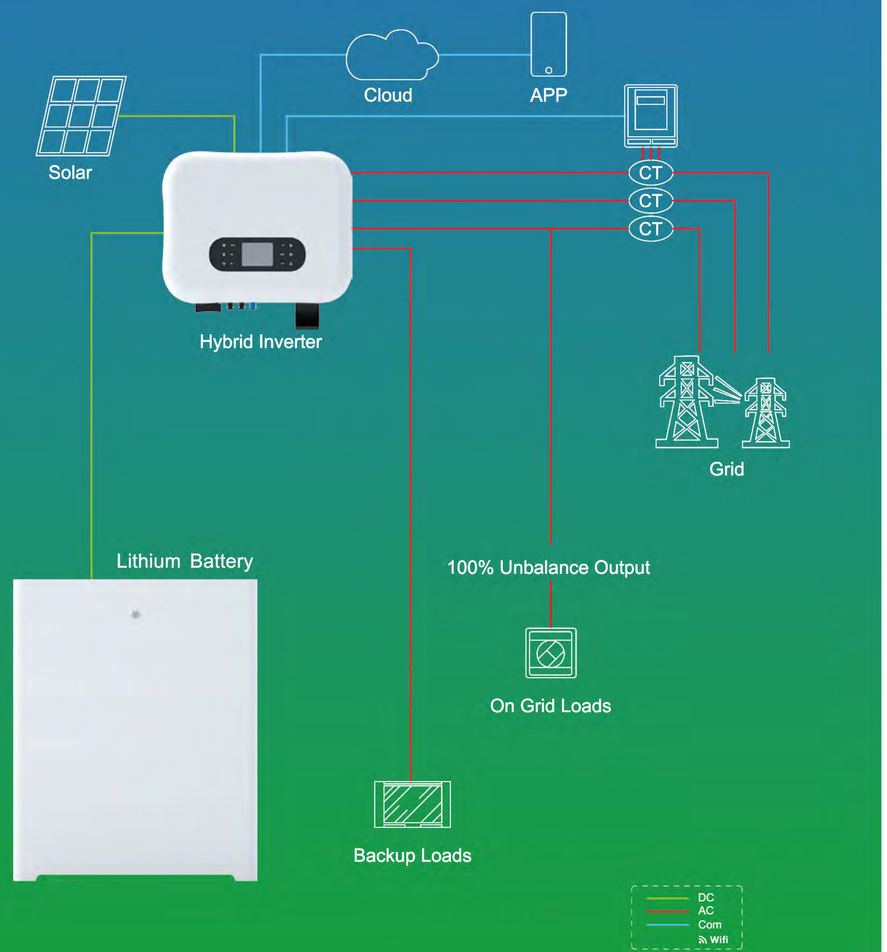
- Professional R&D team design system
- On-grid, and hybrid solar systems
- One-stop solution, 24-hour professional service
- High level of intelligent management to ensure system security

On-Grid PV System

Low Voltage 5kW Hybrid PV System



High Voltage 12kW Hybrid PV System



Off-Grid Solar System

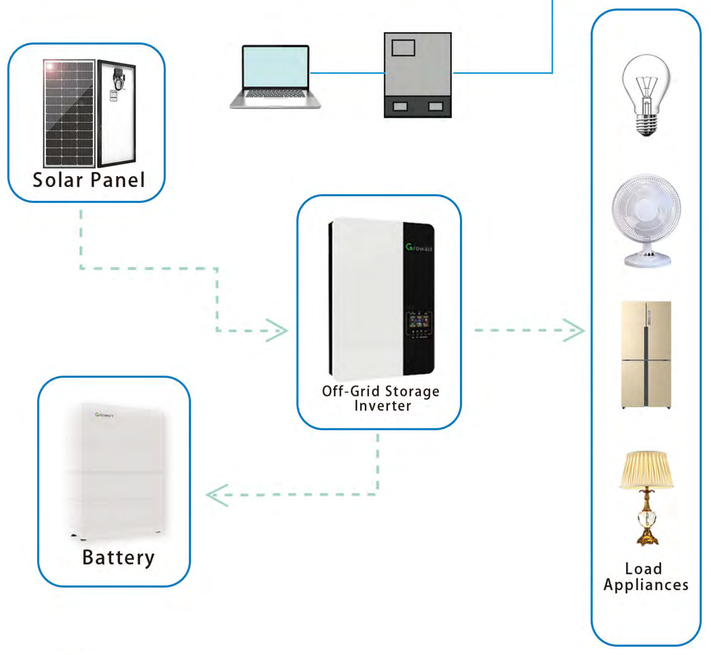
Features

The advantages of off-grid solar system: high reliability, convenient charging, no noise, no pollution.

It realizes off-grid power supply without the need for external power grid operation, ensuring safety, stability, and high reliability.

It can be applied in remote areas and island regions.

Remote monitoring allows for real-time monitoring and management of system operations, facilitating fault diagnosis and maintenance.



Working mode

Off-grid solar systems: It uses solar panels to convert sunlight into electrical energy, which is then stored in batteries after being regulated by the controller for users to use.

On-Grid Solar System

Main Feature

- **Safety Protection Functions**: such as overload protection, short-circuit protection and ground fault protection, etc., to ensure the safety of the system during operation.
- **System Scalability**: the number of solar photovoltaic panels can be gradually increased according to the actual situation in order to increase the power generation capacity.
- **Simple Maintenance**: regular cleaning and inspection of solar panels, etc. to ensure their power generation efficiency is sufficient.

Xiamen TopFence Co., Ltd.

When the solar system generates more power than the load demand, the excess power is converted to AC power through an inverter and fed to the grid. Similarly, when the load demand exceeds the solar system's power generation, the system takes additional power from the grid.

Application Scenarios

Hybrid Solar System

Features

- Reduce dependence on the power grid - no more blackouts.
- Provide uninterrupted power.
- Perfect for areas with frequent power outages.
- Ideal for places with plenty of sunshine.
- Potential to profit from net metering.
- Hybrid solar system can automatically adjust the working mode based on solar power supply and load demand, to achieve optimal energy utilization and stable power supply.
- A hybrid solar system intelligently switches between using solar power, battery storage and grid power.

Working mode

During the day, solar panels generate electricity. This passes through charge controllers to charge the solar battery. A hybrid inverter draws the battery power and converts it to AC for powering appliances.

During peak solar power generation, the excess flows to the hybrid inverter. The inverter converts it to AC and feeds it to the utility power lines.

Solar Carport System

Main Feature

- **Solar Power:** The system generates electricity by harvesting energy from sunlight.
- **Energy Storage System:** The system is equipped with a battery bank to store the electricity generated through solar power generation. In this way, the system is still able to provide a continuous supply of electricity at night or on cloudy days.
- **Carport Structure:** It serves the dual function of solar power generation and energy storage. The carport structure also provides vehicle parking and protection.
- **Environmental Protection and Energy Saving:** It does not produce harmful gases such as carbon dioxide, so it is environmentally friendly and energy saving.

Main Products

Solar Panels
Used to convert solar energy into direct current.

Pv Inverter All-in-One Machine
Integration of PV inverters and grid controllers in one device

Battery Bank
Stores the electricity generated through solar power.

Carport Brackets
Support and protection

Application

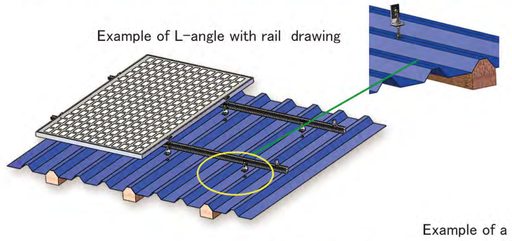
- **Industrial parks**
- **Commercial areas**
- **Hospitals**
- **Schools**

As a public service organization with high energy consumption, it is under great pressure to reduce energy consumption and emissions in the future, and it is particularly important to actively explore the green hospital construction and development mode, and to promote the scientific application of green building concepts and energy-saving and consumption-reducing technologies.

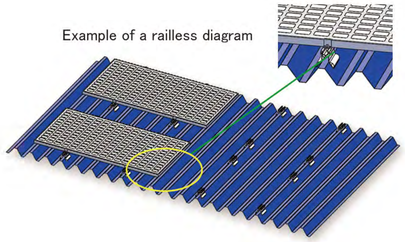
C Metal Roof Mounting System

Clamp + Rail Mounting Diagram

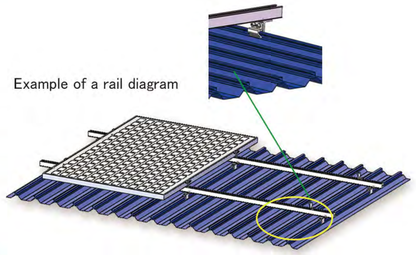
Example of L-angle with rail drawing



Example of a railless diagram

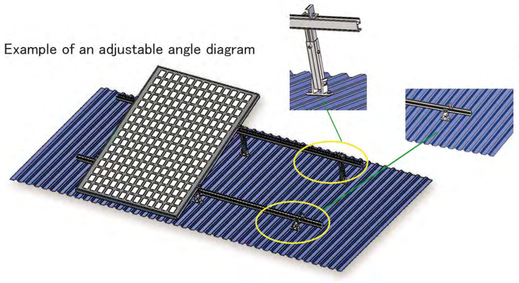


Example of a rail diagram

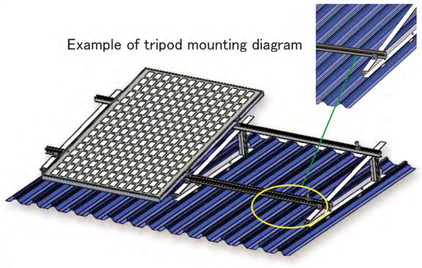


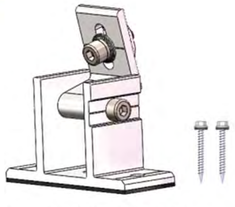
A Adjustable Bracket

Example of an adjustable angle diagram

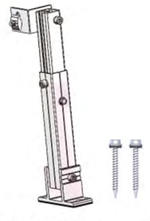


Example of tripod mounting diagram



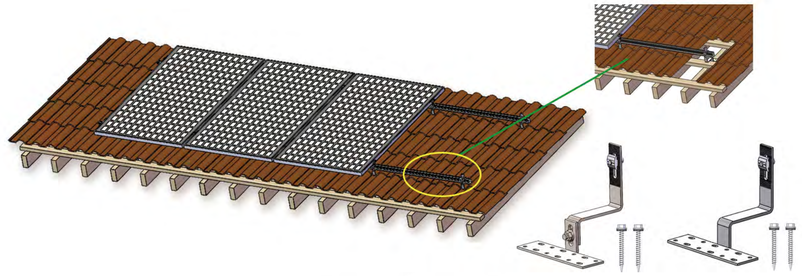


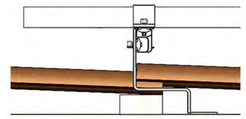
Front foot (adjustable angle)

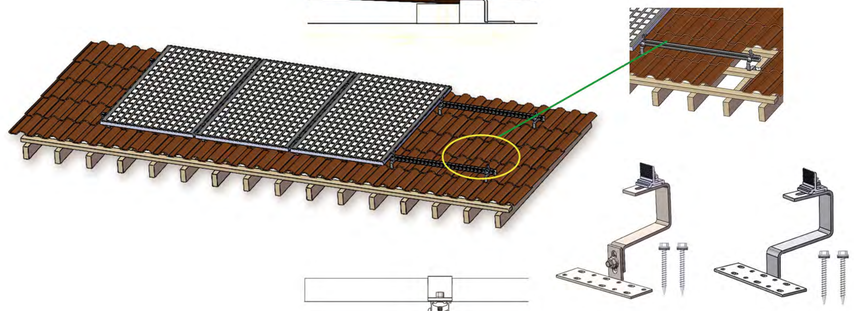


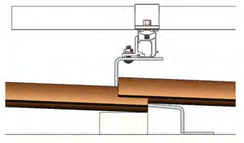
Rear foot (adjustable angle)

T Tile Roof Mounting System







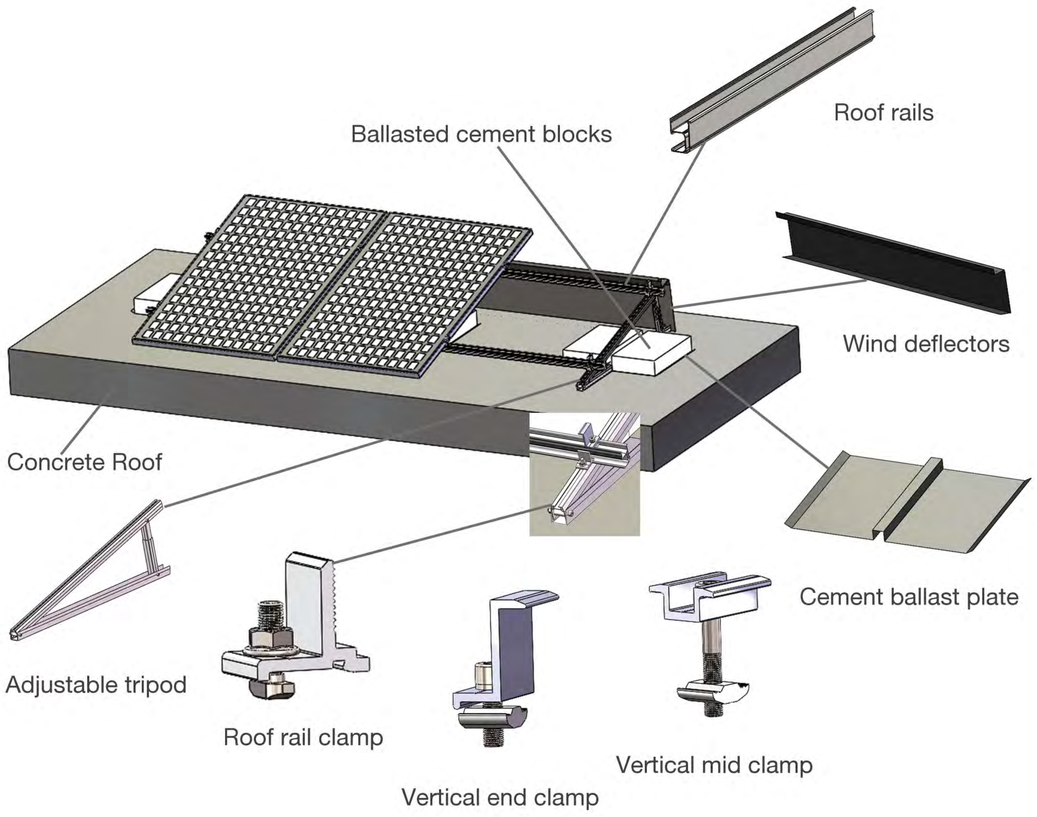


Feature

1. High-quality stainless steel 304 material, strong corrosion resistance.
2. Compatible with a wide range of masonry roofs.
3. Suitable for installation of a wide range of component specifications in the market.
4. Components will be pre-assembled in the factory and uniformly packaged in standardized packages, which can save installation time and improve installation efficiency.

C Cement Roof Mounting System

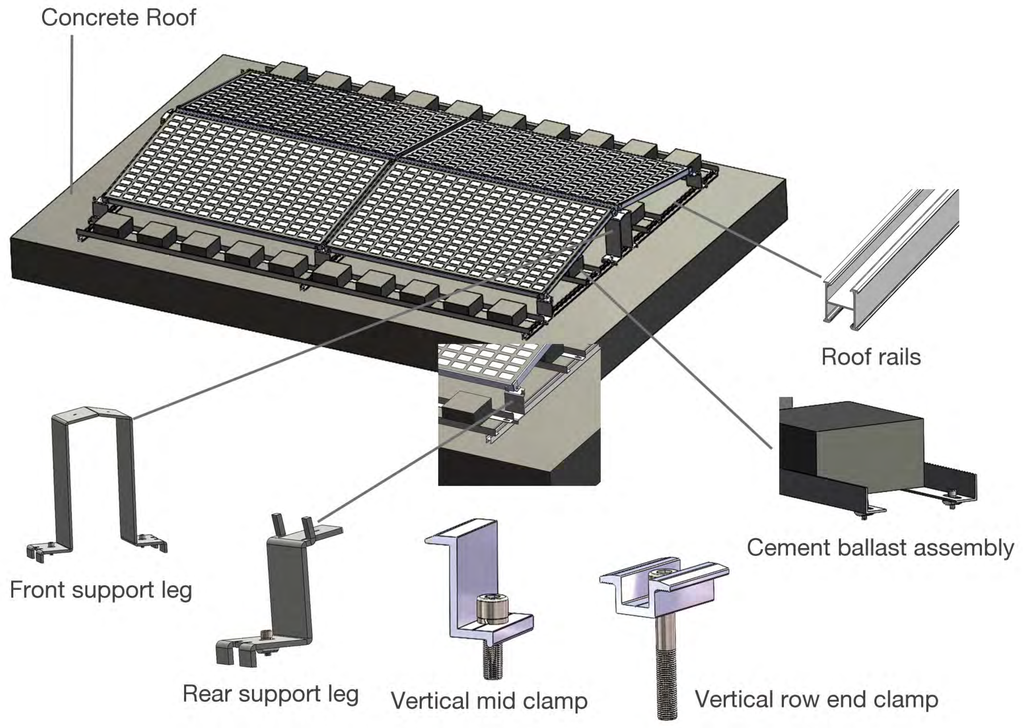
Adjustable Tripod Ballasted System



Feature

The brackets will be pre-assembled in advance and adjusted to the actual condition of the roof using a load base. There is no need for cutting and welding work on site or drilling holes in the ground, which can substantially increase construction efficiency and construction time.

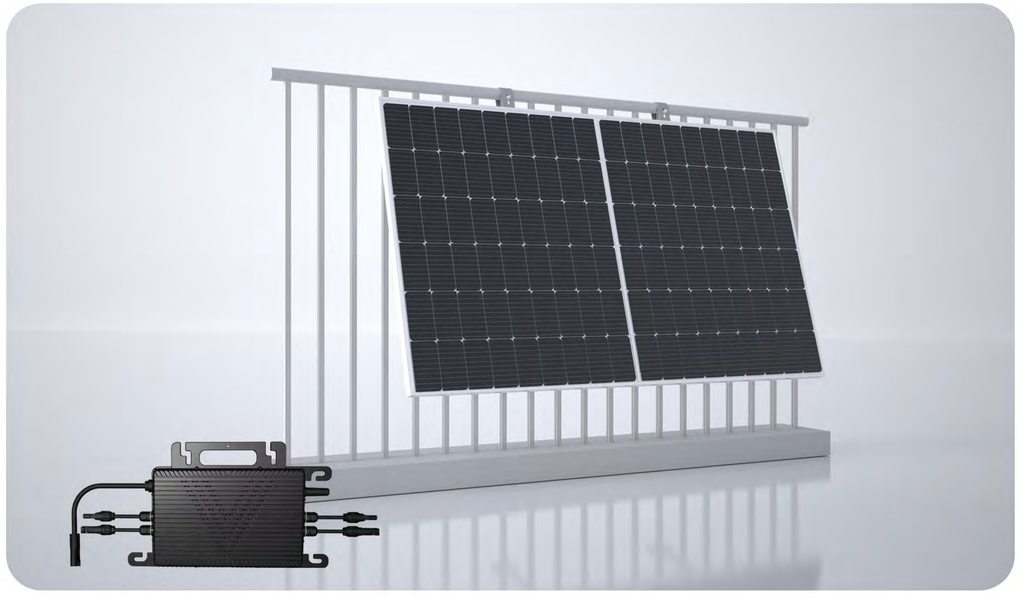
E East-West Ballasted System



Feature

East-West ballasted system is a compact, easy-to-install system that doesn't need extra support, making use of available roof space. It is fixed sturdily, and can blend with building exteriors to improve roofs without detracting from the building's appearance. The system converts solar energy into power and reduces reliance on non-renewable energy sources.

S Solar Balcony System



Higher Yields
Up to 30% More Energy
50°C Full Power Operation

Strong Communication
Encrypted Sub-1G Solution
for Residential & Commercial

Fexible Installation
3 Hooks Designed for
Multiple Applications

Safety Reliability
RSD Compliance
IP67

M Mounting Accessories

TF-HR-01

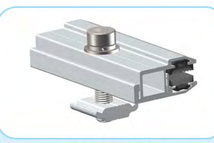
TF-R-B48

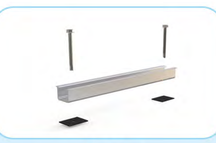
TF-LEC/PEC

TF-RL-B48-RC

TF-LMC

TF-B-GC-L


TF-FME-01


TF-UR-01

TF-Lfoot-01

TF-FMM-01

TF-RC-L50

TF-CRC-2AN

TF-CRC-01

TF-PMC

TF-Tfoot-01

TF-FHK-V02

TF-XJ-01

TF-XJ-02

TF-FHK-V03

DS-01-200

TF-DJ-01

TF-ST-01

TF-FHK-H04

TF-FHK-V01

TF-FHK-V06

TF-FHK-V09

TF-AHK-H04

TF-FHK-H07

TF-AHK-V01

TF-AHK-V03

TF-TRH-S12

TF-AHK-V08

TF-FHK-H10

TF-FHK-V11

TF-FHK-V12

TF-FHK-H13

TF-AHK-H11

TF-AHK-H12

TF-AHK-H13

TF-AHK-V40

TF-AHK-H09

TF-AHK-H10

TF-TRH-S11

TF-FHK-V05

TF-NAK-F01

TF-NAK-F02

TF-SK-F01

TF-SK-F02

TF-AK-F03

TF-SK-F04

TF-RK-F05

TF-TRB-C05

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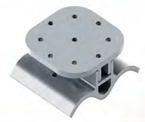
TF-TRB-C12

TF-GC-L-01

TF-TRB-C13

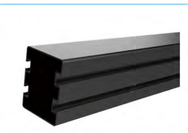


TF-AFK-F

TF-AFK-A

TF-GL-01

TF-KK-01

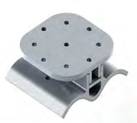

TF-BM-80100

TF-RL-C120

TF-ST-80100-01

TF-BC-80-01

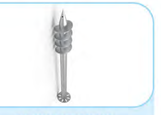
TF-HC-80-02


TF-TRB-C10

TF-AFL-01

TF-ARL-01

Ground screw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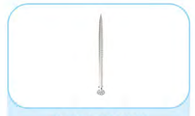
TF-GS2-7630P1Q2

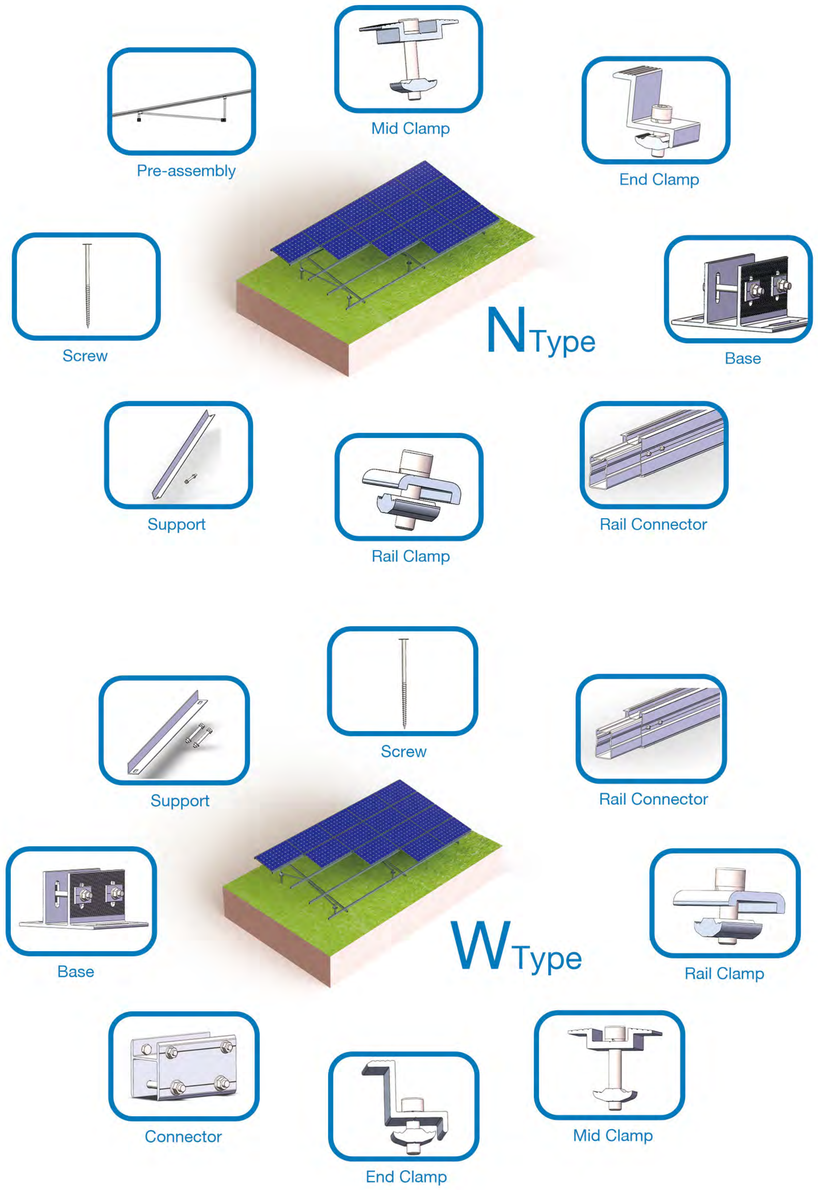

TF-GS3-7630P1Q2

TF-GS1-7630P1Q2

TF-GS5-6030P1Q2

Solar Ground Mounting System

Types



Feature

Stability: Provides good stability against wind and other external forces.

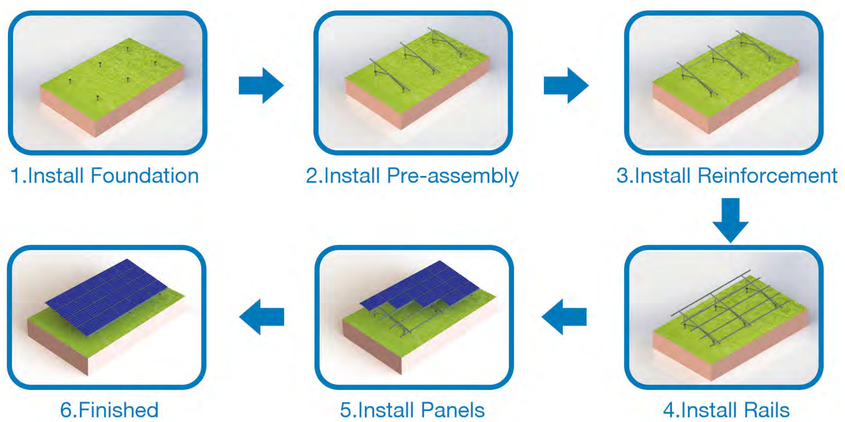
Durability: Treated with anti-rust and other treatments to provide a long service life and adapt to various climatic conditions.

Easy Installation: The installation process is relatively simple and requires less manpower and tools.

Description

Installation Site	Open field
Tilt Angle	10~60 deg
Max Wind Load	60 m/s
Max Snow Load	1.4 KN/m2
Standard	AS/NZS 1170, JIS C8955: 2017/ GB5009-2012
Material	AL6005-T5
Panel Orientation	Portrait/ Landscape
Warranty	10 years

Installation Process



Solar Farm Mounting System

Advantages

1. Dual benefits: Taking into account both agricultural cultivation and solar power generation, realizing the dual benefits of agricultural production and the use of clean energy.
2. Elevated structure: The elevated structure design is conducive to crop growth and yield enhancement.
3. Multi-functional use: Shade effect, protect crops from sun damage, make full use of land resources.

Solar Tracking System

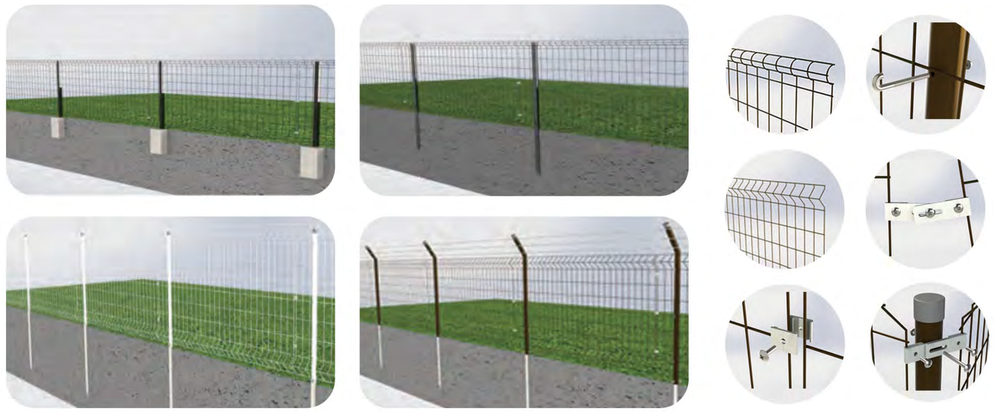
Advantages

- Simple construction
- Low energy consumption
- Excellent stability
- Low failure rate and easy maintenance
- High resistance to wind and snow

Economic Benefits

- Significant reduction in construction materials, which accelerated the project construction schedule
- 20% less steel used per unit capacity of horizontal single axis than fixed type
- Horizontal single axis generation efficiency better than fixed
- Overall beautiful and ornamental, can be used as a tourist attraction

F Fence



Advantages

1. Efficient use of space: saves land area and realizes the integration of solar photovoltaic power generation and fencing functions

2. Increase security: it can effectively restrict the entry of people and animals, and strengthen security protection

3. Renewable energy: photovoltaic fencing has the characteristics of green energy, reducing the dependence on traditional energy and reducing environmental pollution

Application

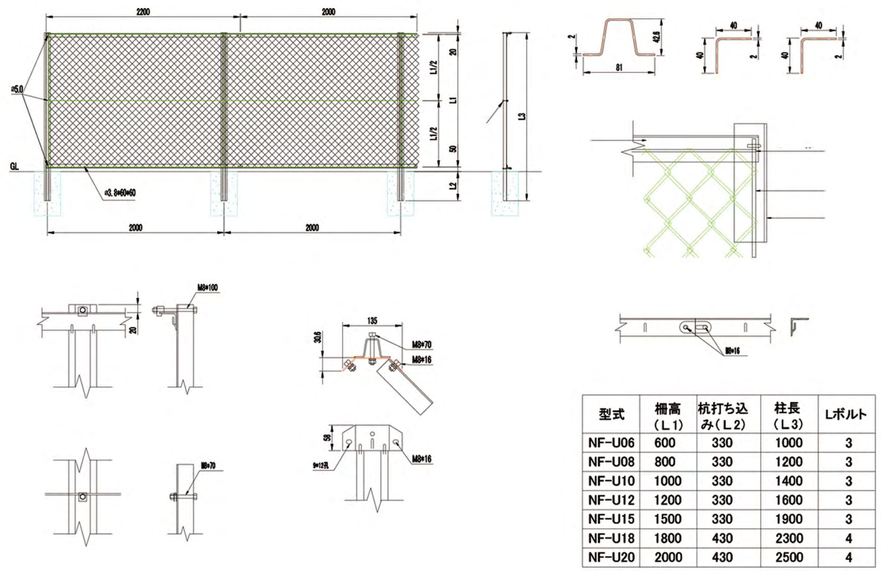
1. Agricultural area: Farmland fencing, orchard fencing and other fencing facilities for agricultural purposes

2. Industrial areas and construction sites: Industrial area boundary fences, construction site security fences

3. Public places: Park fences, school fences and other public facilities places

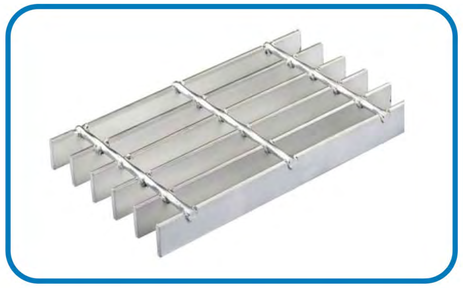
Xiamen TopFence Co., Ltd.

F Fence

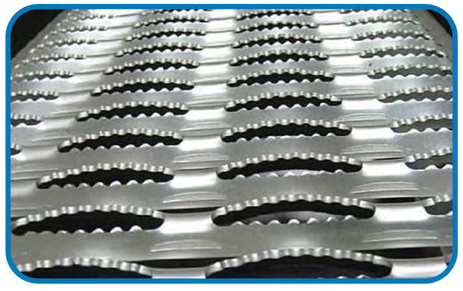


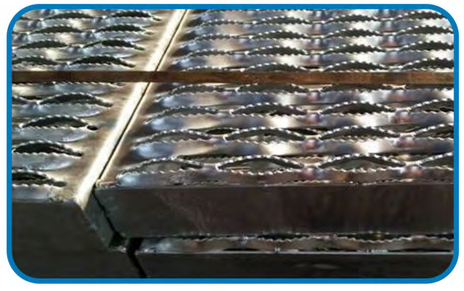
型式	柵高（L1）	杭打ち込み（L2）	柱長（L3）	Lボルト
NF-U06	600	330	1000	3
NF-U08	800	330	1200	3
NF-U10	1000	330	1400	3
NF-U12	1200	330	1600	3
NF-U15	1500	330	1900	3
NF-U18	1800	430	2300	4
NF-U20	2000	430	2500	4

S Steel Grating



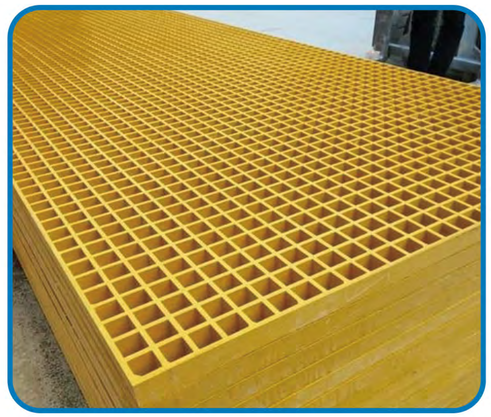
- **Material:** Carbon Steel/ Stainless Steel/Carbon Steel
- **Cross bar pitch:** 50mm, 100mm or according to your requirements
- **Production technique:** punching, cutting,bending, welding
- **Thickness:** Customized
- **Weld Way:** Welded, Pressure-locked,Swage Locked

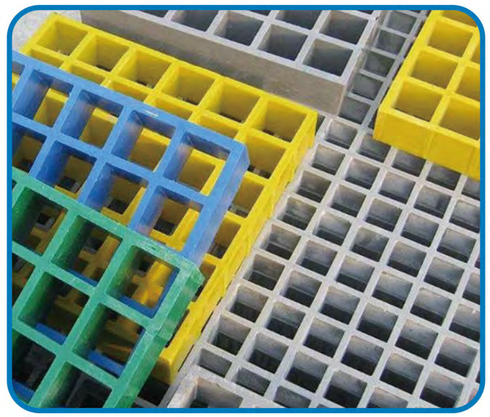




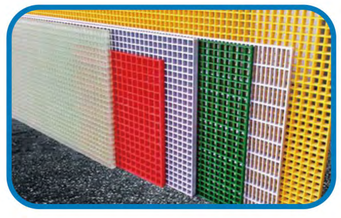
- **Materials:**pre-galvanized carbon steel HRPO carbon steel 5052-H32 mill finish aluminum Stainless steel 304 or 316
- **Surface treatment:** galvanized, hot rolling, pickling
- **Total length:** 6000 mm
- **Total width:** 120 mm, 180 mm, 240 mm, 300 mm,360 mm, 420 mm, 480 mm
- **Total height:** 40 mm, 50 mm, 75 mm
- **Thickness:** 1.5 mm, 2 mm, 2.5 mm
- **Width of the protruding section:** 15 mm
- **Height of the protruding section:** 10 mm
- **Spacing between the protruding sections:** 30 mm

F FRP Molded Grating





- **Color:** Yellow, Green, Gray, Red, Customized
- **Material:** Fiberglass Reinforced Plastic
- **Production technique:** Moulding, Cutting
- **Feature:** Aging-Resistant, Insulation,Corrosion resistance



S Solar Bird Fence

Advantages

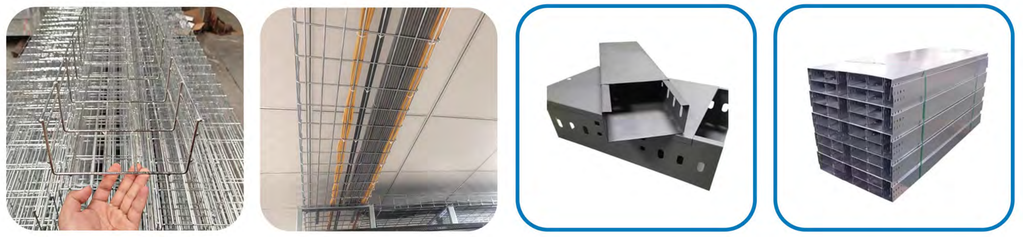
1. Easy to install
2. High durability
3. Low cost
4. No damage to the solar panel itself
5. Compatible with all kinds of rooftop solar panels
6. Protection of solar panels

Parts Composition Mesh Fence

Mesh Fence Material:Steel Surface:Black PVC coated
Height:200mm Length:30.5m/roll Color:Black

Fixing Clip Kit Material:Stainless steel Length:120mm Color:Silver or black

C Cable Tray



Feature

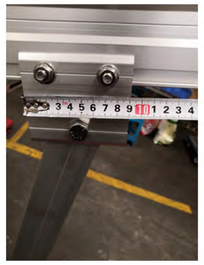
Mesh Cable Tray have a grid-like support structure made of lightweight but durable metal materials, allowing for ventilation and easy visibility and maintenance of cables and pipes.

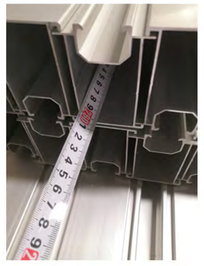
Slotted bridges have slotted channels for easy installation and routing of cables and pipelines, providing isolation protection and keeping the system tidy.

Application

Mesh Cable Tray are used to support and organize cables in industrial and commercial settings. Trough bridges are used to isolate and protect cables and pipelines in places requiring high hygiene and safety standards like hospitals, laboratories, and food processing plants.

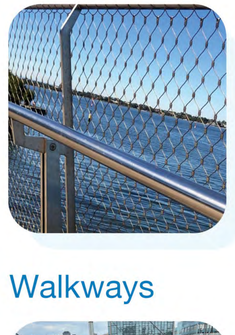
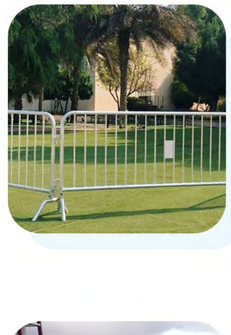
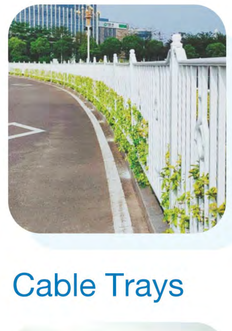
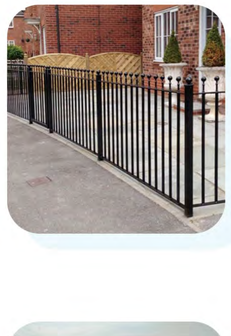
I Inspection Process



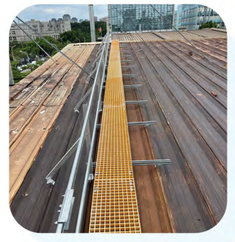


R Related Products

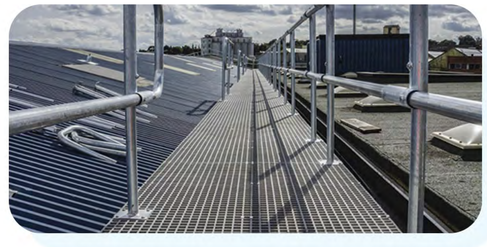
Fences

Walkways



Cable Trays



Xiamen TopFence Co., Ltd.

C Case Pictures