

Lesso New Energy Development Private Limited

One Raffles Quay, North Tower, #19-03, Singapore 048583 LESSO Group (2128) is listed in the Stock Exchange of Hong Kong.







* This catalog has been prepared as a support guide. Under no circumstance shall LESSO assume any liability or responsibility with the information in this catalog. Every effort has been made by LESSO to provide accurate and up to date information.

01 | PRODUCTION OVERVIEW PRODUCTION EQUIPMENT | 02



Solar Mountings & Accessories

Production Workshop

Covering an area of approximately 10,000m², the production workshop is equipped with multiple advanced devices including JCH roll forming machines, U-channel steel production lines, cold roll forming machines, slitting machines, combined punching and cutting machines, C-type single-point precision punching machines, crawler cranes and high-altitude roll forming machines.

Floor Area: 10,000m²





Mold Workshop

Covering an area of approximately 8,880m², the mold workshop is equipped with a variety of CNC machining centers, including horizontal machining centers and gantry type machining centers, CNC devices including CNC lathes, EDM forming machines, pneumatic punching machines, wire rope cutting machines, CNC double milling machines, injection molding machines, composite grinding machines, center-less grinding machines and CNC engraving machines, as well as 83 general-purpose processing devices including lathes, drilling machines, milling machines and grinding machines.

Floor Area: 8,880m² Processing devices: 83sets

PRODUCTION EQUIPMENT















U-channel steel production line

High-altitude roll forming vehicle

Occupined punching and cutting machine for aluminum parts

Laser cutting machine

JCH roll forming machine

Automatic welding machine

C-type single-point precision punching machine

CONTENT



05/06

Solar Mounting System for Color Steel Tile Roof



11/12

Solar Mounting System for Agriculture and Aquaculture Farm



07/08

Solar Mounting System for Concrete Roof



13/14

BIPV Water-proof Solar Mounting



09/10

Solar Mounting System for Glazed Tile Roof



Solar Mounting System for Color Steel Tile Roof

[LS001]



Introduction

The solar mounting system for color steel tile roof is suitable for distributed power stations. It consists of aluminium profiles making it very light, with low loading requirements for the roof.

Features

- All-aluminum structure, light weight, reduced roof load, simple, reliable and durable.
- Suitable for photovoltaic power stations on large area color steel tile roofs for facilities or warehouses.
- Multiple clamps available for different types of color steel tile panels.
- Fully universal superstructure and components.
- Unique lightning-proof grounded design, reducing the cost of additional lightning-proofing.

Product Description

Installation Location	Snow Load	Material	Service Life
Color Steel Tile Roof	70kg/m²	Aluminum Profile	25 Years

Drawing Force	Wind-bearing Capacity	Mounting Type	Color
1000N	40m/s, 32.5kg/m², level 13	Frame	Natural Color

Main Components

















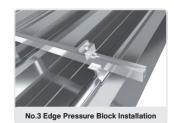
InstallationStep

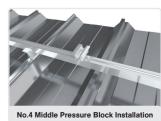












Solar Mounting System for Concrete Roof

[LS002]



Introduction

The solar mounting system for concrete roof is suitable for solar power stations installed on the ground or on concrete roofs. It features good wind resistance and is highly cost effective, and able to meet most customer demands.

Features

- Light weight, solid structure, reducing roof loads.
- Prefabricated concrete roof, simplifying installation procedures and reducing working hours on site, with no damage to the original building structure.
- Designed with mounting at an incline, guaranteeing higher power output.
- Unique lightning-proof grounded design, reducing the cost of additional lightning-proofing.

Product Description

All Specifications Supported

Installation Location	Snow Load	Material	Service Life
Flat Ground/ Roof	14KN/m²	Carbon Steel	25 Years
Drawing Force	Wind-bearing Capacity	Surface Treatm	ent
1000N	40m/s	Hot-dip Galvanizing/ Aluminum-Zinc-Mag	nesium Alloy Coating
Specification of PV Mo			Angle of Modul

Horizontal/Vertical

As per customer requirements

Main Components













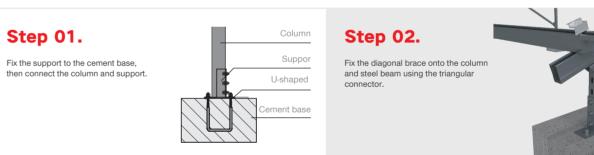


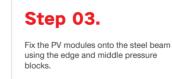






Installation













Solar Mounting System for Glazed Tile Roof



Introduction

The solar mounting system for glazed tile roof is suitable for distributed power stations. It features stainless steel hooks and aluminum profiles for strong adaptability to different types of glazed tile roofs and low loading requirements

Features

- Suitable for a variety of conventional glazed tile roofs and tile types of different heights, easily adjustable mounting and convenient installation.
- Materials with different specifications can be selected as the main bearing parts according to specific loads, ensuring structural safety and effective control over mounting costs.
- Stainless steel and anodized aluminum alloy materials ensure an aesthetic appearance and outstanding anti-corrosion performance.

Product Description

Installation Location	Snow Load	Material	Service Life
Glazed Tile Roof	70kg/m²	Aluminium Profile	25 Years

Drawing Force	Wind-bearing Capacity	Mounting Type	Color
1000N	40m/s, 32.5kg/m², level 13	Frame	Natural Color

Main Components



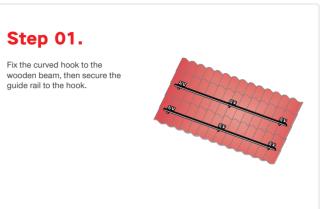




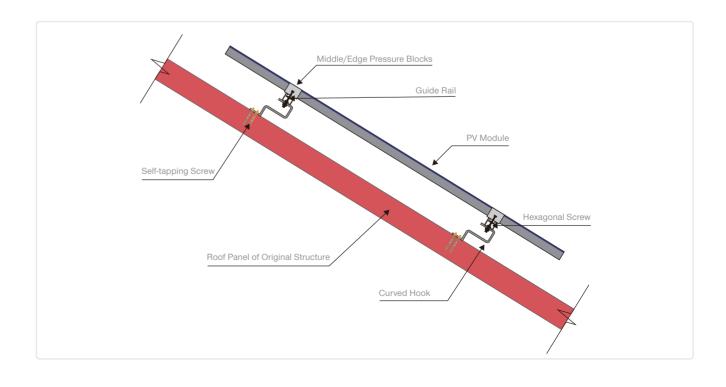




Installation







Solar Mounting System for Agriculture and Aquaculture Farm [LS004]



Introduction

The single column solar mounting system is suitable for solar power stations for agriculture and aquaculture farms and large mountain solar power stations. It has low requirements in terms of terrain, strong adaptability to a variety of complex environments, and convenient installation, meeting most customer demands.

Features

- Single column structure, small footprint.
- One piece of land for multiple uses: generating power and raising fish (growing vegetables), greatly increasing the utilization efficiency of land resources.
- Prestressed concrete pile foundation mounting height can be adjusted according to water depth and crop growth.
- Prestressed concrete piles are highly corrosion-resistant against acidic soil containing chemical fertilizers and against long-term water soaking.

Product Description

Installation Location	Snow	Load	Material	Service Life
Fish ponds or ground-based	0.5KN/ı	m²	Carbon Steel	25 Years
Drawing Force	Wind-l	pearing Capacity	Surface Treatme	ent
1000N	40m/s		Hot-dip Galvanizing/ Aluminum-Zinc-Mag	nesium Alloy Coating
Specification of PV Mod	lules	PV Module Layout	t Inclination A	Angle of Modules
All Specifications Supported		Horizontal/Vertical	As per custome	er requirements

Main Components

















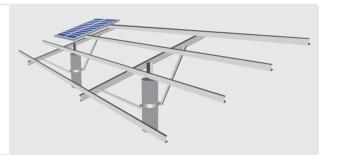


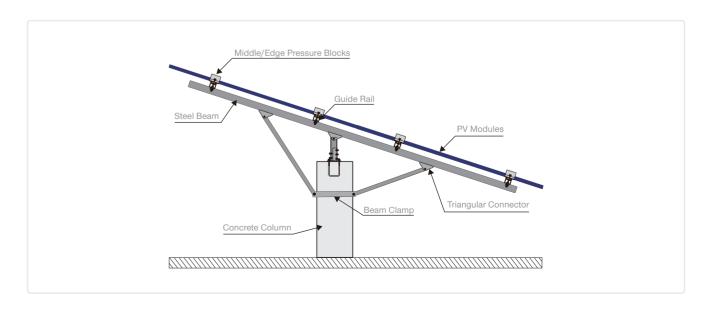




Installation

- Pre-embed the U-bolts on the pipe piles.
- Fix the support and column to the pipe pile.
- Install steel beam and guide rail.
- Install beam clamp, and connect diagonal brace, steel beam and hoop using the triangular connector;
- Install the PV modules on the guide rail using the edge and middle pressure blocks.





BIPV Water-proof Solar Mounting



Introduction

The BIPV mounting is suitable for sun rooms with concrete roofs, BIPV commercial plants, and waterproof PVcarports.

Features

- Solid structure, strong corrosion resistance.
- Convenient installation, reducing labor costs.
- Lap-type component installation, with multiple forms of protection for outstanding waterproofing performance.
- Intelligent use of space, meeting client requirements

Product Description

Installation Location	Material	Service Life
Plants, Carports and Sun Rooms	Zinc-Aluminum-Magnesium, Aluminum Alloy, Stainless Steel	25 Years

Snow Load	Wind-bearing Capacity	Installation Angle
As per project requirements	As per project requirements	As per project requirements

PV Module Layout	Specification of PV Modules
Horizontal/Vertical	All Specifications Supported





Waterproof PV carport



Main Components







Guide Trough **Guide Rail Connector**











Installation

Step 01.

Install the waterproof guide rail (main trough) onto the paved horizontal cross-beam using the M8*25 T-screw set.

Waterproof Guide Rail





Step 02.

Install the PV modules onto the waterproof guide rail from top to bottom and from left to right. Before installing the side press and center press, first complete the installation of the guide trough under the PV modules. (Note: When fitting the components horizontally, a weather-resistant sealant needs to be inserted into the gap between the upper and lower components for added strengthening and waterproofing, and to reduce water ingress. In addition, vertical supports should be added to the lower middle section of the components, in order to prevent sinking and cracking).





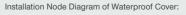
Installation Node Diagram of PV Modules:





Step 03.

Install waterproof cover in the middle gap between the PV modules. Press down directly or use a rubber mallet to clamp them tightly to the middle pressure block.







Location: Karamay, Xinjiang, China









Location: Egypt
Project Capacity: 275KW



Location: Changsha, Hunan, China **Project Capacity:** 9.75MW



Location: Maoming, Guangdong, China Project Capacity: 6.58MW

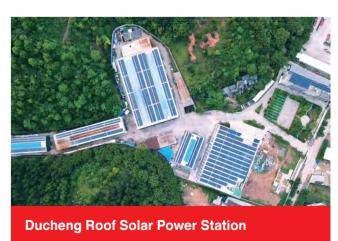


Location: Foshan, Guangdong, China **Project Capacity:** 6.14MW



Dingan Rooftop Solar Power Station

Location: Dingcheng, Dingan, Hainan, China **Project Capacity:** 6MW



Location: Yunan, Yunfu, China **Project Capacity:** 5MW

17 | STRATEGIC PARTNERS

STRATEGIC PARTNERS





















































SolarScace





















