FDA SOLAR
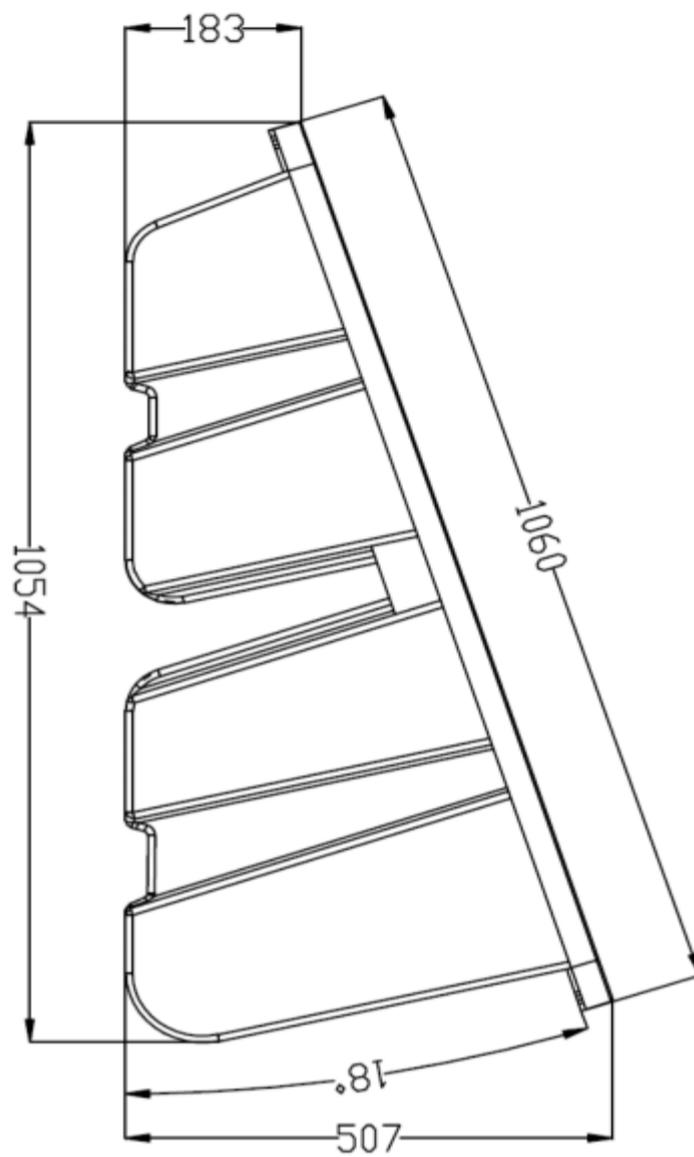
Montagesysteme

exklusive Module

Panelhalterung   Flachdach

Material Kunststoff   **CE Zertifiziert**
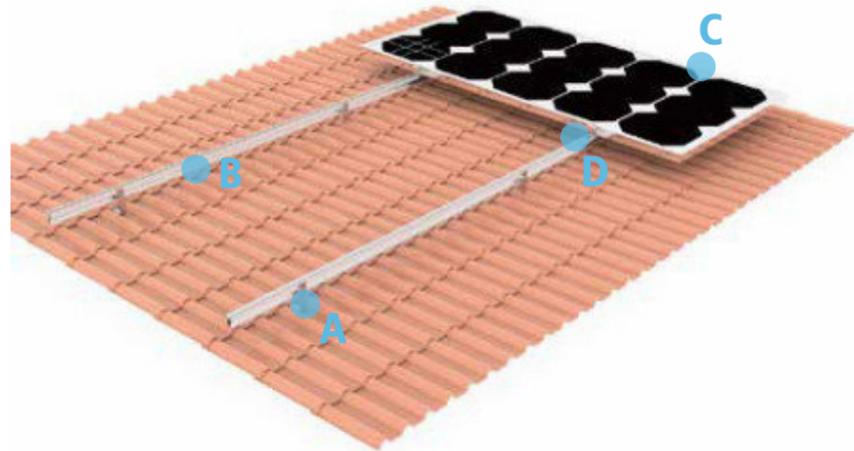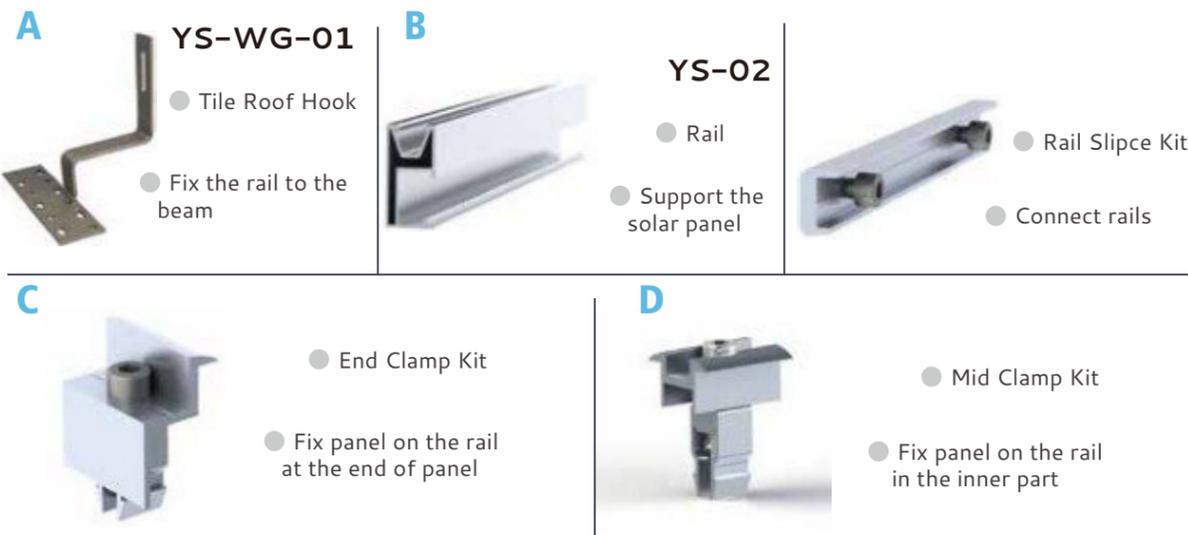

1017

695

183

1054

1060

18°

507
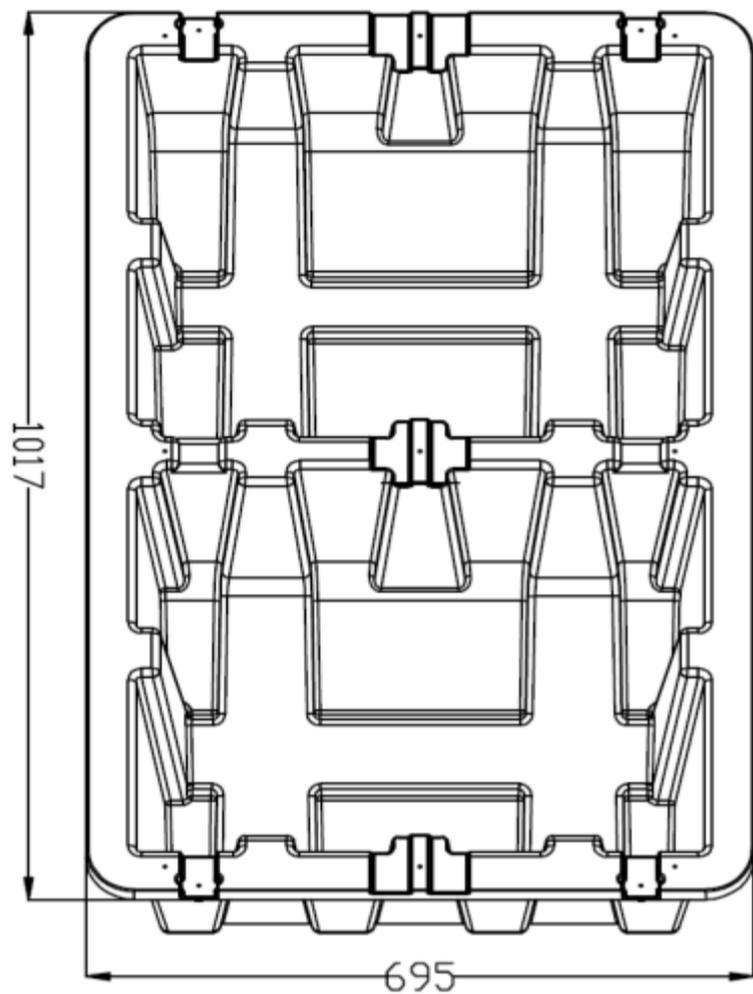
RP-1 Pitched Tile Roof Mounting

RP-1 Pitched Tile Roof Mounting is suitable for installing framed and frameless modules on the pitched roof with high strength and excellent stability. Different hooks are compatible with various tile roofs.

Brief Introduction

- Install Site: Pitched Tile Roof
- Max. Wind Speed: **60**m/s
- Snow Load: **1,4**KN/m2
- Material: AL 6005-T5 & Stainless Steel 304
- Warranty: **12** years warranty; **25** years service life

Tile Hook Types

YS-WG-01   YS-WG-02   YS-WG-03   YS-WG-04   YS-WG-07

YS-WG-08   YS-WG-09   YS-WG-10   YS-WG-11   YS-WG-12

Components Parts

A YS-WG-01
- Tile Roof Hook
- Fix the rail to the beam

B YS-02
- Rail
- Support the solar panel
- Rail Slipce Kit
- Connect rails

C
- End Clamp Kit
- Fix panel on the rail at the end of panel

D
- Mid Clamp Kit
- Fix panel on the rail in the inner part

Project Solution

BOM List for a project with 500W:

ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	2pcs.
Rail	L=2104mm	2pcs.
Hook		6pcs.
MidClamp	L=40mm	2pcs.
End Clamp	L=40mm	4pcs.
Grounding Washer	L=40mm	2pcs.
Grounding Lug	L=16mm	2pcs.
Cable		acc. to demand

RP-5 Trapezoidal Roof Mounting

RP-5 The panels are fixed on trapezoidal roof sheet with short rail and clamps directly. The clever design ensures minimal installation time. The higher rail improves the heat dissipation and makes it be suitable for tropical zone.

Application Roof

a>20mm

Components Parts

A YS-150
- Short Rail Kit
- Support panels

B
- End Clamp Kit
- Fix panel on the rail at the end of panel

C
- Mid Clamp Kit
- Fix panel on the rail in the inner part

Optional Short Rail Kit

YS-116-JJ

YS-103
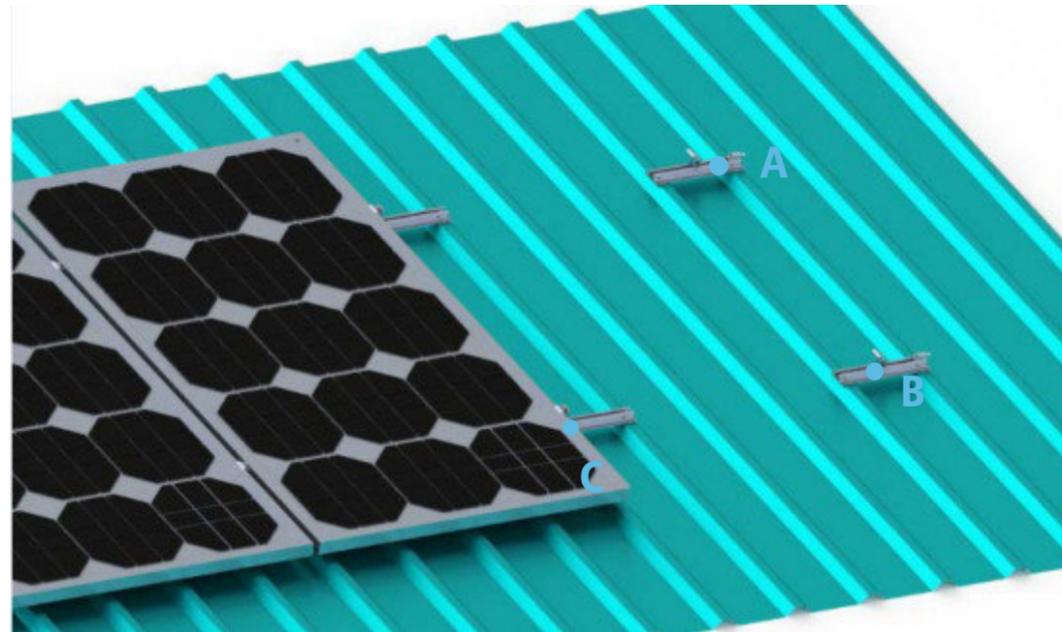
Brief Introduction

- Install Site: Trapezoidal Roof (Both available for Landscape & Potrait)
- Snow Load: **1,4**KN/m2
- Max. Wind Speed: **60**m/s
- The length of "a" should be more than 20mm
- Material: AL 6005-T5 & Stainless Steel 304
- Warranty: **12** years warranty; **25** years service life
- The short rails will be installed on the trapezoidal part "a" of the roof
- Fixing: The short rails will be fixed on roof with 4 pcs self-tapping screws

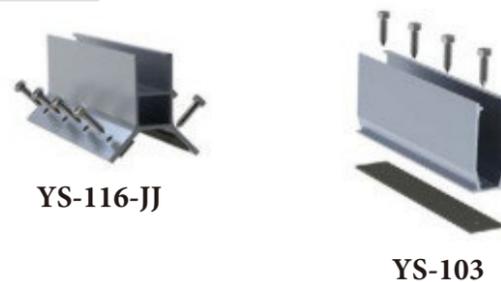## Project Solution

BOM List for a project with 1500W:

| ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	6pcs.
Short Rail	L=280mm	16pcs.
Mid Clamp	L=40mm	8pcs.
End Clamp	L=40mm	8pcs.
Cable		acc. to demand

Brief Installation Guide

1, Fix rail to the roof sheet with self-tapping screws

2, Put the panels onto the rails

3, Fix the panels with clamps

4, Fix all the panels and clamps and then installation will be finished

RP-2 Metal /Asbestos Roof Mounting

RP-2 Metal /Asbestos Roof Mounting is designed with patented and innovative rail, standard components and highly pre-assembled clamps, which make the installation to be simple with great flexibility.
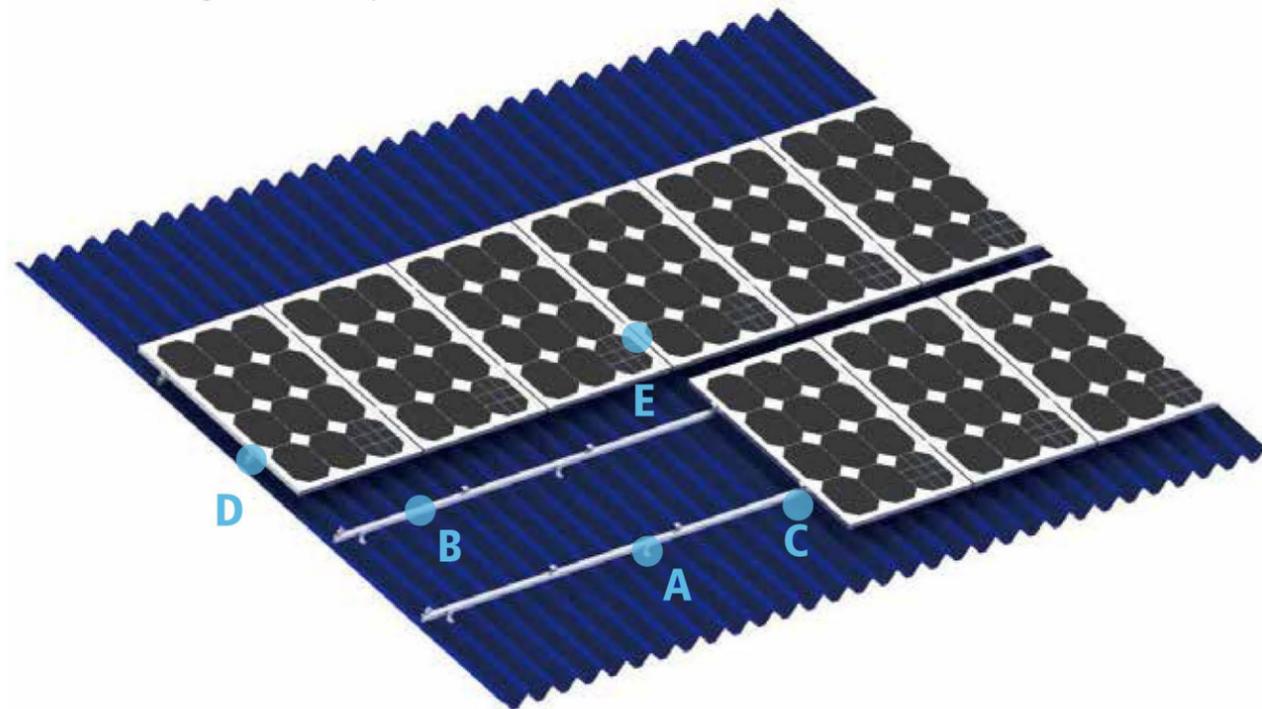
Brief Introduction

- Install Site: Pitched Tin Roof
- Max. Wind Speed: **60**m/s
- Snow Load: **1,4**KN/m2
- Material: AL 6005-T5 & Stainless Steel 304
- Warranty: **12** years warranty; **25** years service life

Related Hooks

YS-WG-36   YS-145   YS-22-Z   YS-WG-13

Components Parts

A
- L-Feet Kit
- Fix the rail to the beam

B YS-02
- Rail
- Support the solar panel

C
- Rail Splice Kit
- Connect rails

D
- End Clamp Kit
- Fix panel on the rail at the end of panel

E
- Mid Clamp Kit
- Fix panel on the rail in the inner part

Application Roof

Project Solution

BOM List for a project with 3000W:

ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	12pcs.
Rail	L=3076mm	8pcs.
Rail Splice	L=200mm	4pcs.
Mid Clamp	L=40mm	20pcs.
End Clamp	L=40mm	8pcs.
L Feet	L=40mm	16pcs.
Grounding Washer	L=40mm	20pcs.
Grounding Lug	L=16mm	v4pcs.
Cable		acc. to demand

TP-7 Flat Roof Ballast System

TP-7 is the south-oriented racking solution for mounting framed modules on flat roofs with 5°, 10° and 15° mounting tilts. The simply design saves time and reduces labor cost.
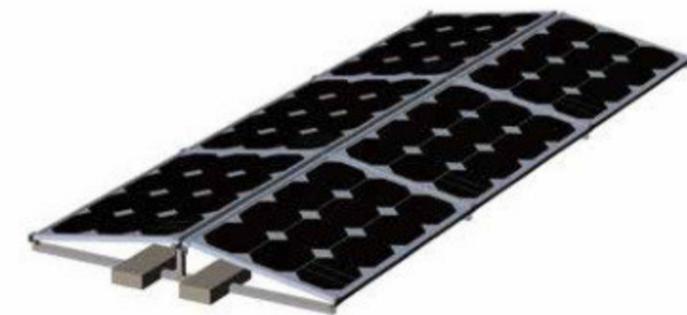
A

B

C

D
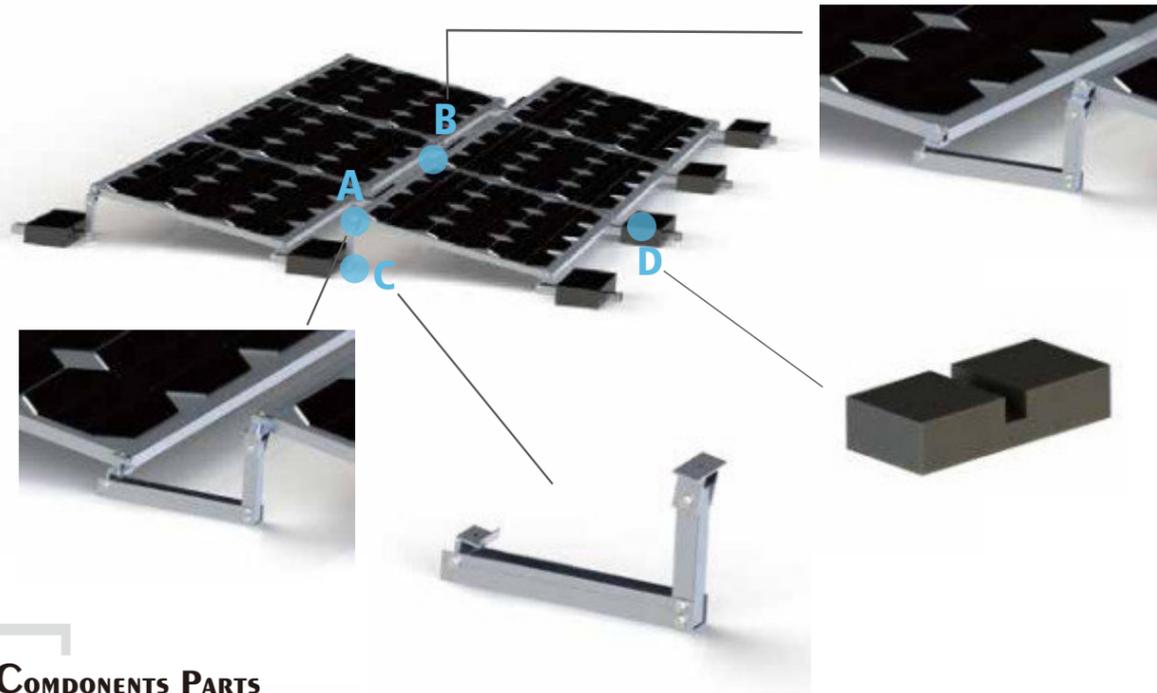
Brief Introduction

- Install Site: Flat Roof
- Tilt Degree: 5°, 10°, 15°
- Snow Load: **1,4** KN/m2
- Max. Wind Speed: **60** m/s
- Material: AL 6005-T5 & Stainless Steel 304
- Warranty: **12** years warranty; **25** years service life

East/West-Oriented Solution

Components Parts

A
- End Clamp Kit
- Fix panel on the leg base

B
- Mid Clamp Kit
- Fix panel on the leg base

C
- Base Rail Kit
- Support the panel and ballast

D
- Concrete block
- Put on the Base Rail Kit

Brief Installation Guide

1, Stretch the preassembled base rail kit.

2, Fix the panel by mid clamp and end clamp.

3, Put the concrete ballast on base rail, then Installation finished.

GL-2S Ground Screw Mounting

GL-2S Ground Screw Mounting system designed to provide an economical and practical mounting solution for large-scale open areas. Available for both framed and frameless modules. Compatible with screwing machine on the open area easily.

A Type: Ground Clearance ≤300mm

W Type: Severe Weather Area

N Type: Ground Clearance ≥600mm
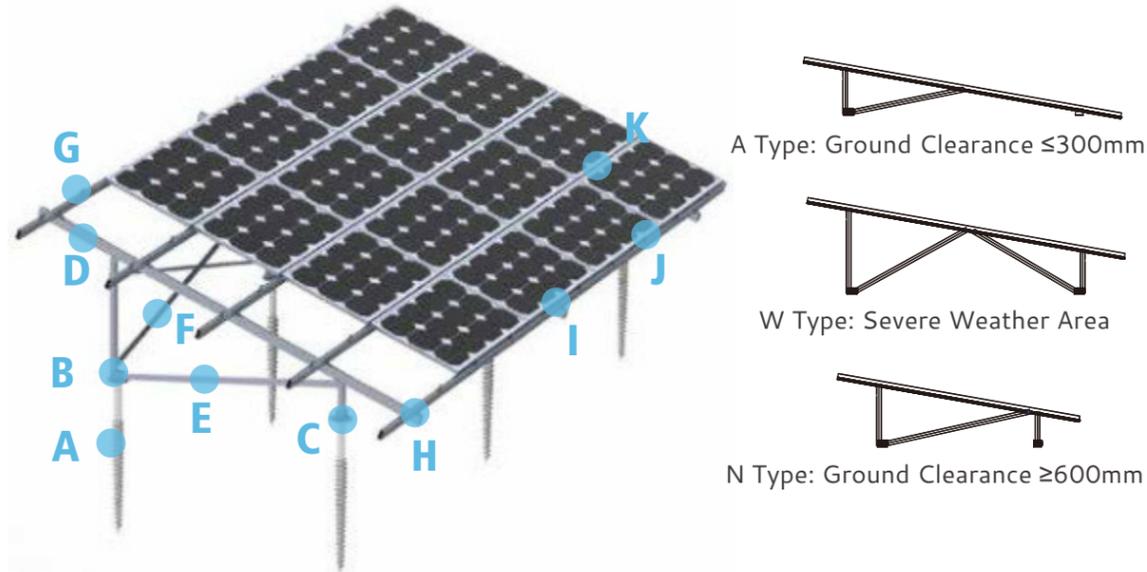
Project Solution

BOM List for a project with 5000W:

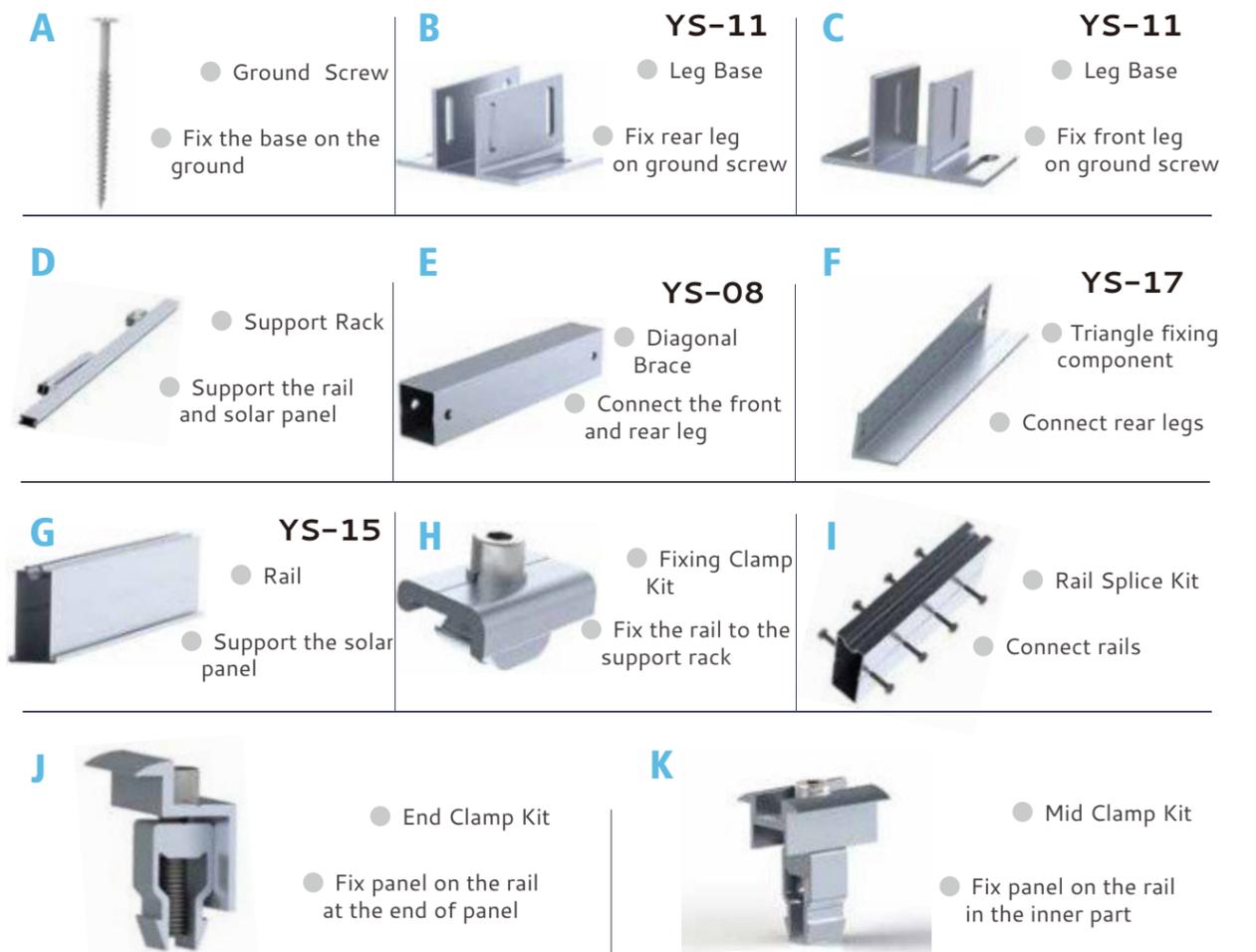| ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	20pcs.
Support Rack		3pcs.
Ground Screw		6pcs.
Rail	L=4170mm	10pcs.
Rail Splice	L=200mm	5pcs.
Mid Clamp	L=40mm	30pcs.
End Clamp	L=40mm	20pcs.
Fixing Clamp	L=40mm	30pcs.
Front Base		3pcs.
Rear Base		3pcs.
Fixing Component		4pcs.
Diagonal Brace		3pcs.
Grounding Washer	L=30mm	30pcs.
Grounding Lug	L=16mm	5pcs.

Foundation Type
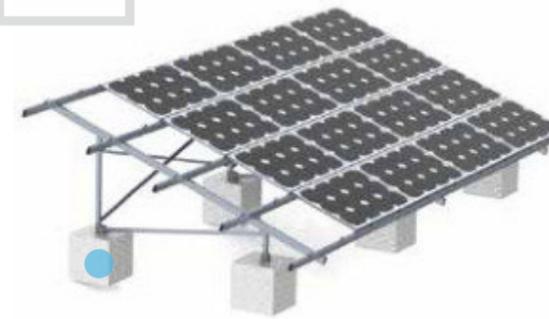
The Ground Screws can be replaced by Concrete Block with Anchor Bolt.

Brief Introduction

- Install Site: Open Field/Ground
- Max. Wind Speed: **60**m/s
- Material: AL 6005-T5
- Module Angle: **0-60°**
- Snow Load: **1,4**KN/m2
- Color: Natural
- Warranty: **12** years warranty; **25** years service life

Components Parts

A
- Ground Screw
- Fix the base on the ground

B YS-11
- Leg Base
- Fix rear leg on ground screw

C YS-11
- Leg Base
- Fix front leg on ground screw

D
- Support Rack
- Support the rail and solar panel

E YS-08
- Diagonal Brace
- Connect the front and rear leg

F YS-17
- Triangle fixing component
- Connect rear legs

G YS-15
- Rail
- Support the solar panel

H
- Fixing Clamp Kit
- Fix the rail to the support rack

I
- Rail Splice Kit
- Connect rails

J
- End Clamp Kit
- Fix panel on the rail at the end of panel

K
- Mid Clamp Kit
- Fix panel on the rail in the inner part

GP-3C HDG Steel Ground Mount

HDG Steel Ground Mount creates an economical solution and is also very solid, reliable for a large array PV system in open terrain. Its uses galvanized steel as legs, beams and rails. It is also compatible with ground screws, optimizing it for different terrains.

Brief Introduction

- Install Site: Open Field/Ground
- Max. Wind Speed: **60**m/s
- Module Angle: **0° –60°**
- Warranty: **12** years warranty
- Material: Q235 Hot Galvanizing
- Snow Load: **1,4**KN/m2
- Colar: Natural or Customized

Brief Installation Guide

1. Connect and fix front/rear leg to the concrete base

2. Stretch the preassembled support racks, fix it to the leg bases

**3.** Make sure the height of all the support rack kits reach a complete unity

4. Put the rail on the rack and fix the panel by end clamp and mid clamp

Components Parts

A YS-TG-04
- HDG Connector
- Contect the support rack and leg

B YS-TG-06
- HDG Leg Base
- Fix the leg on the concrete base

C
- Support Rack
- Support the rail and solar panel

D YS-TG-01
- HDG Rail
- Support the solar panel

E YS-CS-Z01
- Fixing Clamp Kit
- Fix the rail to the support rack

F YS-04-Z03
- End Clamp Kit
- Fix panel on the rail at the end of panel

H YS-21-C02
- Mid Clamp Kit
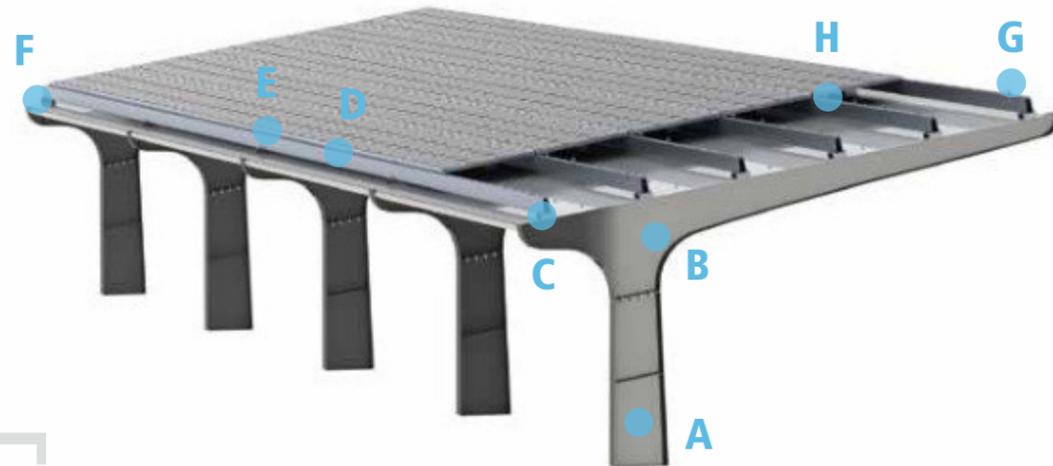- Fix panel on the rail in the inner part

Istallation Details
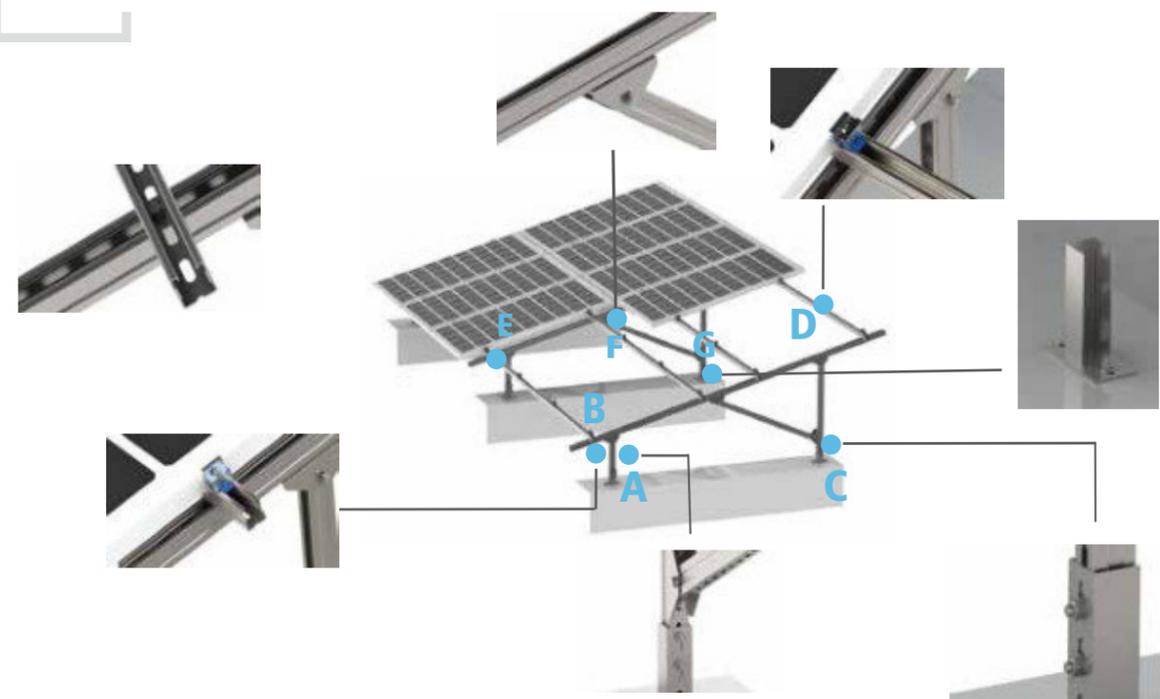
CL-3 Single T-Frame Solar Carport

CL-3 Single T-Frame Solar Carport Mounting, standard installations maintain 4000mm maximum clearance. No field welding, drilling or other on-site fabrication needed.

Brief Introduction

- Install Site: Open Field/Ground
- Max. Ground Clearance: ≤**4000**mm
- Material: AL 6005-T5 & Carbon Steel
- Warranty: **12** years warranty

- Max. Wind Speed: **60**m/s
- Module Angle: **0-20°**
- Color: Natural or customized
- Snow Load: **1,4**KN/m2

Components Parts

A
- Support Post/Leg
- Support the support rack

B
- Support Rack
- Support the roof

C
- Square Tube
- Fix the rails on support racks

D
- Rail
- Support the solar panels

E
- Rail Splice
- Connect the rails

F
- Fixing Clamp Kit
- Fix the rails on square tubes

G
- End Clamp Kit
- Fix panel on the rail at the end of panel

H
- Mid Clamp Kit
- Fix panel on the rail in the inner part

Project Solution

BOM List for a project with 15KW:

ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	60pcs.
Support Rack		5pcs.
Support Post/Leg		5pcs.
Rail	L=5073mm	24pcs.
Rail Splice	L=400mm	18pcs.
MidClamp	L=40mm	96pcs.
End Clamp	L=40mm	48pcs.
Fixing Clamp	L=40mm	60pcs.
Square Tube		30pcs.

Istallation Details
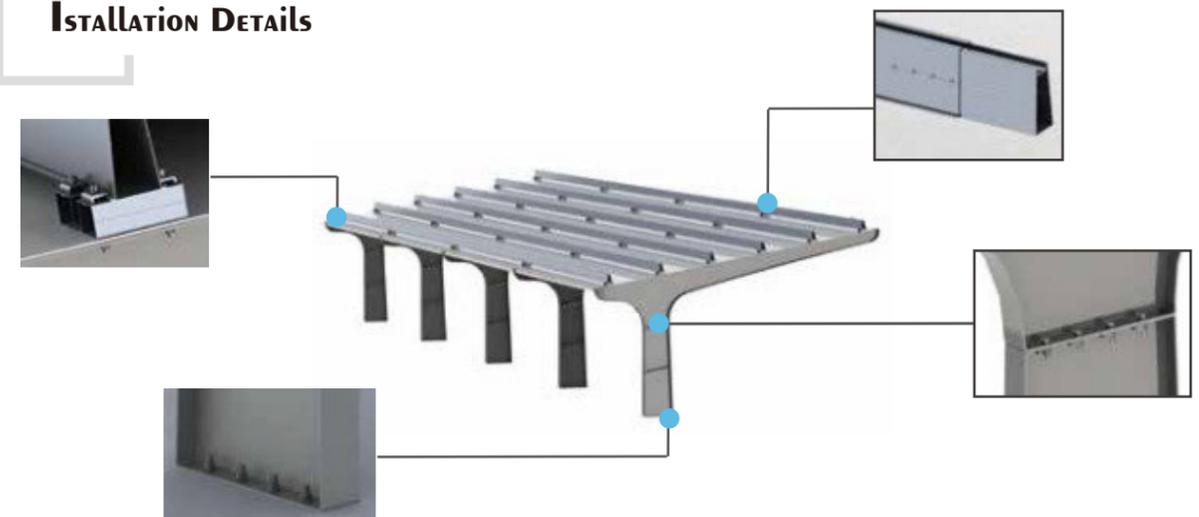
GROUND SCREW

Our Ground Screw is made of Q235 material. It is anti-corrosion with hot dip galvanization and compatible with screwing machine on the open area easy. The length and size can be customized.

BRIEF INTRODUCTION

- Install Site: All types of Soil
- Pipe Diameters: **50-140**mm
- Pipe Length: **1000-3500**mm
- Warranty: **5** years limited Finish warranty; **25** years service life
- Pipe Material: Q235
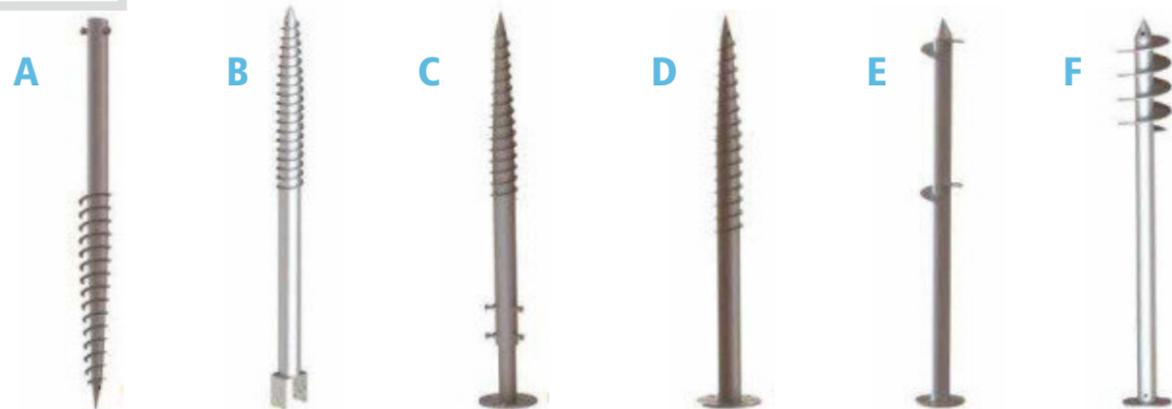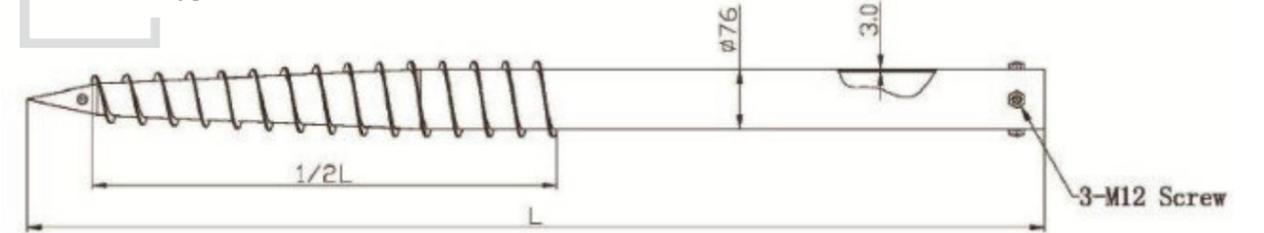- Pipe Thickness: **2-4**mm
- Surface: Hot dip galvanization

GROUND SCREW

A   B   C   D   E   F

TUBE TYPE

FLANGE TYPE
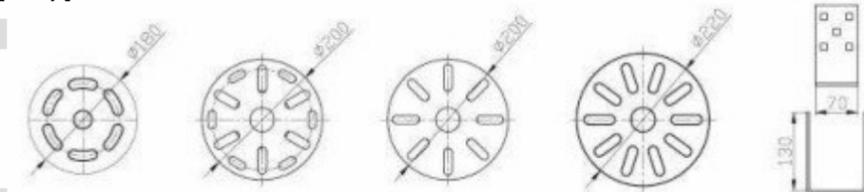
SPECIFICATION

NO.	Item NO.	Material	Surface	Galvanized surface	D(mm)	T(mm)	H(mm)
A	N76*L	Q235	Hot Galvanized	≥80μm	76	2-4mm	Customized
B	F76*L-U			≥80μm	76		
C	F76*L-A			≥80μm	76		
D	F76*L			≥80μm	76		
E	F76*L-2			≥80μm	76		
F	F76*L-4			≥80μm	76		

ADVANTAGES

Easy Installation, Removal and Relocation:
It is effective and cost-savings as available for installation machines. It can be installed, removed and relocated than other foundation solutions easier and faster.

Steady and Safety:
Many kinds of types can be selected comply with the static load analysis and test to make sure the foundation is safe.

Widely Application:
Different heads of screw piles will be adapted to meet the various needs of different customers.

Environmentally Friendly:
The surrounding areas will not be spoiled because no need of concrete base and without performing land preparation works during the insertion.

Montagesysteme Einzelteile

Rails

Framed panel clamps

YS-02

ITEM NO.	YS-02	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.767kg/m
SPEC.	1000~6500mm		

YS-97

ITEM NO.	YS-97	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.764kg/m
SPEC.	1000~6500mm		

YS-147

ITEM NO.	YS-147	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.686kg/m
SPEC.	1000~6500mm		

YS-26

ITEM NO.	YS-26	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	2.448kg/m
SPEC.	1000~6500mm		

YS-15

ITEM NO.	YS-15	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	1.428kg/m
SPEC.	1000~6500mm		

YS-19

ITEM NO.	YS-19	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	1.434kg/m
SPEC.	1000~6500mm		

YS-04

ITEM NO.	YS-04 End Clamp	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
SPEC.	L=40mm, H=35~50mm		

YS-21

ITEM NO.	YS-21 Mid Clamp	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.594kg/m
SPEC.	L=40mm, H=40mm		

YS-01

ITEM NO.	YS-01 Rail Block	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.446kg/m
SPEC.	16mm		

Thin film solar clamps

YS-39

ITEM NO.	YS-39	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.0795kg/pc.
SPEC.	L=80mm		

YS-40

ITEM NO.	YS-40	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.055kg/pc.
SPEC.	L=80mm		

Tile hooks

Mini Rails

YS-WG-01

ITEM NO.	YS-WG-01	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.505kg/pc.
DESC.			

YS-WG-02

ITEM NO.	YS-WG-02	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.430kg/pc.
SPEC.			

YS-WG-03

ITEM NO.	YS-WG-03	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.593kg/pc.
DESC.			

YS-WG-04

ITEM NO.	YS-WG-04	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.533kg/pc.
DESC.			

YS-WG-05

ITEM NO.	YS-WG-05	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.329kg/pc.
DESC.			

YS-WG-06

ITEM NO.	YS-WG-06	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.495kg/pc.
DESC.			

YS-103

ITEM NO.	YS-103	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
SPEC.			

YS-116

ITEM NO.	YS-116	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-117

ITEM NO.	YS-117	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-CL-12

ITEM NO.	YS-CL-12	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-CL-21

ITEM NO.	YS-CL-21	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-33

ITEM NO.	YS-WG-33	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

Clip Lock

YS-WG-23

ITEM NO.	YS-WG-23	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-27

ITEM NO.	YS-WG-27	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-34

ITEM NO.	YS-WG-34	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-35

ITEM NO.	YS-WG-35	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-36

ITEM NO.	YS-WG-36	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-37

ITEM NO.	YS-WG-37	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
SPEC.			

Cable Clips

YS-XJ-01

ITEM NO.	YS-XJ-01	MATERIAL	SUS 304
SURFACE	Clean	WEIGHT	0.0025kg/pc.
DESC.		1~2 cables	

YS-XJ-02

ITEM NO.	YS-XJ-02	MATERIAL	SUS 304
SURFACE	Clean	WEIGHT	0.0057kg/pc.
DESC.		3~4 cables	

Grounding Components

YS-44

ITEM NO.	YS-44	MATERIAL	SUS 304
SURFACE	Clean	WEIGHT	
DESC.		Grounding Washer	

YS-45

ITEM NO.	YS-45	MATERIAL	SUS304
SURFACE	Clean	WEIGHT	
DESC.		Grounding Washer	

YS-54

ITEM NO.	YS-54	MATERIAL	Copper&Steel
SURFACE	Clean	WEIGHT	0.0758kg/pc.
DESC.		Bonding Jumper	

FDA SOLAR

Customized Tile hooks

Customized Tile hooks

YS-RH-01

YS-RH-02

YS-RH-07

YS-RH-08

YS-RH-03

YS-RH-04

YS-RH-09

YS-RH-10

YS-RH-05

YS-RH-06

YS-RH-11

YS-RH-CT1