



U R Energy started its journey in the solar industry in Australia in 2009 and within 6 years achieved a market leading position servicing 70.000+ residential and commercial customers across the Australian solar market. Inspired by the success in Australia, the company decided to expand globally and began operations in India in 2015 and the United States of America in 2016. The company now procures, develops and installs solar power systems at economic prices for residential, commercial and utility scale customers across the world including Australia, United States of America, India, Dubai, Africa, and United Kingdom. UR Energy group has installed 200+ MW Solar Plants across these countries and adding more daily.

Quality is at the core of our business whether it be the solar products we source, our installation process or the service we provide to our customers. UR Energy is an ISO 9001, ISO 14001 and OHSAS 18001 accredited company and we source the highest quality solar power systems from Tier 1, modern manufacturing facilities around the world.

The business was started with a single goal, to help accelerate the growth and adoption of solar power systems across the world, not only for its obvious environmental benefits but also for the economic benefits available to our customers. That's why we offer the highest quality products at the best price available on the market today and as always, backed by our 5% price beat guarantee.



















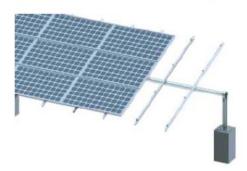
# **Module Mounting System**

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#### Single Axis Solar Tracker System





**Partial Diagram** 

years Warranty

Compare to the fixed mounting system, single axis tracker can collect more sun lights, increasing the electricity production by 20-35%.

#### **Product Features**

#### 1. Easy installation:

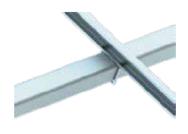
Structure is stable and more reliable. While the system is working, center of gravity and the axis are in the same position, thus eliminating the reducer bias.

- **2. Smart Protection**: In case of strong winds or adjust the bracket flat, parallel to the ground thus preventing it from damage.
- 3. 10 Years Warranty: After optimization of the bearings and other components, and choosing proper materials design, effectively prevent the external conditions such as dust, wind to damage the system.

| Technical Parameters            |                             |
|---------------------------------|-----------------------------|
| Installation site               | Flat Ground                 |
| Base                            | Concrete Base               |
| Material                        | Hot Dipped Galvanized Steel |
| Wind Load                       | 30 m/s                      |
| Snow Load                       | 0.7 kN/m²                   |
| Protection Level                | IP65                        |
| Tracking Accuracy               | ≤ 0.5°                      |
| Increase Electricity Production | ≥ 20%                       |
| Warranty                        | 10 Years                    |
| Material                        | Anodized AL6005-T5, SUS304  |
| Yield Strength                  | 205N/mm²                    |
|                                 |                             |



**Main Post** 



Rail

#### Flat Roof Racking System



**Adjustable System** 

**Fixed System** 

UR Flat Roof Racking system is developed to mount the module tilt a certain angle on a flat roof or ground. You can have the fixed or adjustable angle solution as 10-15deg, 15-30deg and 30-60deg according to your exact requirement. UR series product have the innovated aluminum rail, D-module, clamps and legs which can be pre-assembled to make the installation easy and quick for saving your labor cost and time. Besides, the customized length of rail will not require onsite weld and cut, keeping the appearance entirety, structural strength and anti-corrosive performance.

#### **Product Features**

#### 1. Safety Reliability:

The racking systems can stand up to the extreme weather complied with the AS/NZS 1170 and other international structure load standards by skilled engineers. The main support components have also been tested to guarantee its structure and load-carrying capacity.

#### 2. Easy Installation:

D-module can be put into GD Rail from any position. so the parts can be pre-assembled on factory to save your install time on site.

#### 3. Flexibility and Compatible:

GD Rail and its accessories can be installed with the most solar panels on the difference condition.

| Technical Paramete | ers                              |
|--------------------|----------------------------------|
| Installation Site  | Low profile roof or open field   |
| Tilt Angle         | 10deg ~ 60deg                    |
| Building Height    | up to 20m                        |
| Max Wind Speed     | up to 60m/s                      |
| Snow Load          | up to1.4KN/m°                    |
| Standards          | AS/NZS 1170 & DIN 1055 & Other   |
| Material           | Aluminum alloy & Stainless steel |
| Color              | Natural                          |
| Anti-corrosive     | Anodized                         |
| Warranty           | Ten years warranty               |
| Duration           | More than 20 years               |
|                    |                                  |



Flat Roof Racking System

# **COMPONENTS**

### **Adjustable Tilt System**



## Legs

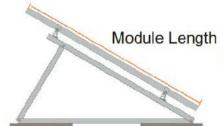


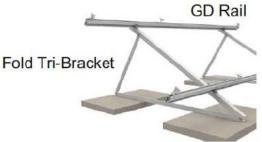
| Item No.      | Description           | Leg Length |
|---------------|-----------------------|------------|
| UR-AD-FL      | AD Front Leg          |            |
| UR-AD-RL10/15 | AD Rear Leg 10/15 deg | 240~360mm  |
| UR-AD-RL15/30 | AD Rear Leg 15/30 deg | 340~680mm  |
| UR-AD-RL30/60 | AD Rear Leg 30/60 deg | 700~1200mm |

Flat Roof Racking System

# COMPONENTS

### **Fold Tri-Bracket System**

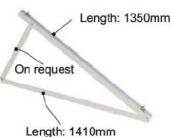






Fold Package

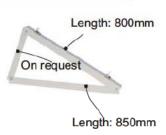
### **Fold Tri-Bracket**



Tri-Bracket 1#



Adjustable Tri-Bracket 1#



Tri-Bracket 2#



Accessories: DR Rail Clamp

| Item No.     | Description                     | Module Length       | Angle       |
|--------------|---------------------------------|---------------------|-------------|
| UR-FT30-01   | Triangle Bracket 1# 30deg       | Less than 1.7meter  | Fixed 30deg |
| UR-FT30-02   | Triangle Bracket 2# 30deg       | Less than 1.1 meter | Fixed 30deg |
|              |                                 |                     |             |
| UR-AT2-10/15 | Adjustable 2# Tri-Bracket 10/15 | Less than 1.7meter  | 10~15deg    |
| UR-AT2-15/25 | Adjustable 2# Tri-Bracket 15/25 | Less than 1.7meter  | 15~25deg    |
| UR-AT2-25/45 | Adjustable 2# Tri-Bracket 25/45 | Less than 1.7meter  | 25~45deg    |

UR-RC-01 DR Rail Clamp Kit

Flat Roof Racking System

# **PROJECT EXAMPLE**

#### **ADJUSTABLE TILT SYSTEM**



| Solar Panels Size:<br>1580*808*46mm or<br>1585*826*46mm | Rail<br>UR-DR-  | Front Leg<br>UR-AD-FL | Front Leg<br>UR-AD-RL | Inter Clamp<br>UR-IC-F46 | End Clamp<br>UR-EC-F46 | Rail Splice<br>UR-DR-SP |
|---|-----------------|-----------------------|-----------------------|--------------------------|------------------------|-------------------------|
| Adjustable 10/15<br>4 Panels install                    | 3405mm<br>2 pcs | 4                     | 4                     | 6                        | 4                      | 2                       |
| Adjustable 15/30<br>4 Panels install                    | 3405mm<br>2 pcs | 4                     | 4                     | 6                        | 4                      | 2                       |
| Adjustable 30/60<br>4 Panels install                    | 3405mm<br>2 pcs | 4                     | 4                     | 6                        | 4                      | 2                       |

# **Fold Tri-Bracket System**

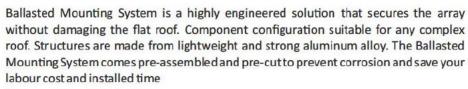




| Solar Panels Size:<br>1580*808*46mm or<br>1585*826*46mm | Rail<br>UR-DR-  | Tri-Bracket 1#<br>UR-FT30-01 | Rail Clamp<br>UR-RC-01 | Inter Clamp<br>UR-IC-F46 | End Clamp<br>UR-EC-F46 | Rail Splice<br>UR-DR-SP |
|---|-----------------|------------------------------|------------------------|--------------------------|------------------------|-------------------------|
| Fixed 30 deg<br>3 Panels install                        | 2560mm<br>2 pcs | 2                            | 4 pcs                  | 4                        | 4                      | 2                       |
| Fixed 30deg<br>4 Panels install                         | 3405mm<br>2 pcs | 3                            | 6 pcs                  | 6                        | 4                      | 2                       |

#### **Ballasted Mounting System**







#### 1. Quick Installation

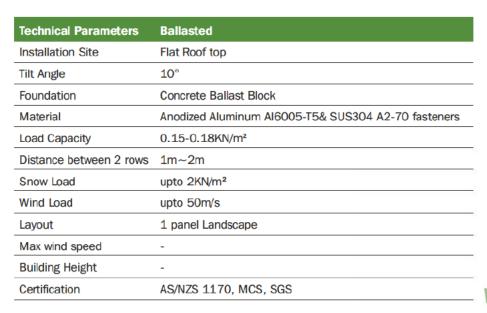
Pre-assembled, no need to drill hole or welding. Each set is an independent unit which can be adjusted or combined as required

#### 2. High Anti Corrosion

High class Aluminum alloy Al6005-T5 and stainless steel fasteners provides a very high protection against corrosion and the material strength ensure the brackets high load bearing capacity.

#### 3. Higher Security

No need to penetrate the roof, so it does not lead to leaky roof. Pre-fabricated concrete blocks can be used as load.





Pre assembled Triod (Folded)



Connector



**Ballast Plate** 



Ballast Load + Plate



**Wind Deflector** 



**Universal Mid/End Clamps** 



#### **Adjustable Tripod Mounting**



#### **Product Features**

#### 1. Simple Design

These products are factory assembled, well packaged, which highly reduce on site installation time by 40% compared to traditional type. Team of 4 professional labours can install 200KW in 1 day.

#### 2. Universal

Use of universal mid and end clamps enables panel installation of thickness 35mm to 50mm. The tilt angle can be adjusted from 10 deg - 25deg. This product can adopt concrete block or ground screw piles as foundation.

This product can adopt concrete block or ground screw piles as foundation.

#### 3. Safety and Reliability

The design has followed japan JIS standard and have obtained TUV and MCS certification.

#### 4. 20 Years Warranty

Aluminum structure are treated with anodized layer of thickness  ${\bf 15}$ , can stand up to the extreme weather conditions.

The main support components have also been tested to guarantee its structure and load-bearing capacity.

# Pre assembled Tripod (folded)



Rail



Mid/End Clamps

| Technical Parameters |                               |  |  |
|----------------------|-------------------------------|--|--|
| Install Site         | Low profit roof or open field |  |  |
| Tilt Angle           | 10 deg - 25 deg               |  |  |
| Max Wind Load        | upto 60m/s                    |  |  |
| Snow Load            | up to 1.4KN/m²                |  |  |
| Warranty             | 20 Years                      |  |  |
| Certification        | AS/NZS 1170, MCS, SGS         |  |  |
| Material             | Anodized Aluminum AL6005-T5   |  |  |
| Fasteners            | SUS304 A2-70                  |  |  |
| Yield Strength       | 260N/mm²                      |  |  |
|                      |                               |  |  |













#### **UB-Ground Mounting System**





Concrete Foundation 4x2

**Ground Screw Foundation 4x3** 

UR UB-Ground Mounting System is applicable for the photovoltaic array system on the open fields. The steadiness and safety of this system is compilable with the structural mechanics and construction acts.

For different foundation solutions, such as concrete with pre-buried bolt, direct buried and ground screw, the system can be modified to install. Material used include hot galvanized steel and anodized aluminum alloy, with great anti-corrosive suitable for outdoor using.

As per practical requirements, the system is able to be planned and customized in the factory to avoid welding and cut on the spot, saving your time and cost.

#### **Product Features**

#### 1. Steady and Safety:

Design and check the structure according to the structural mechanics and construction acts.

#### 2. Easy Installation:

Planning and machining in the factory saving your time and cost

#### 3. Excellent Duration:

For Outdoor using, all the material selected with high class anti-corrosion protection.

#### 4. Great Flexibility:

The Ground Array can be planned from kilo-watt to mega-watt

| Technical Parameters |                                   |  |  |  |
|----------------------|-----------------------------------|--|--|--|
| Installation Site    | Open Field                        |  |  |  |
| Tilt Angle           | 10deg ~ 60deg                     |  |  |  |
| Building Height      | up to 20m                         |  |  |  |
| Max Wind Speed       | up to 60m/s                       |  |  |  |
| Snow Load            | up to1.4KN/m²                     |  |  |  |
| Standards            | AS/NZS 1170 & DIN 1055 & Other    |  |  |  |
| Main Material        | Aluminum alloy & Galvanized steel |  |  |  |
| Color                | Natural                           |  |  |  |
| Anti-corrosive       | Anodized & Galvanized             |  |  |  |
| Warranty             | Ten years warranty                |  |  |  |
| Duration             | More than 20 years                |  |  |  |



**UB-Ground Mounting System** 

# **COMPONENTS**

### **Integrated Type Ground Mounting**

#### **Features**

- Material and finish: Hot galvanized & Dacromet steel Q235
- The Leg welded to be integral reduce the install step
- Foundation option: Concrete Foundation



Concrete Foundation with Pre-buried Bolt

| Item No.      | Description.                            |
|---------------|---|
| UR-CP-60/     | Cross Pipe OD60                         |
| UR-AS-40/1820 | Angle Steel Brace 1820mm with accessory |
| UR-GM-FL985   | Front Leg 985mm with U bolt             |
| UR-GM-BL1990  | Back Leg 1990mm with U bolt             |

Note: the above products is planned for the project example

| Item No. | Description                           |    |
|----------|---------------------------------------|----|
| UR-GM-SK | Angle Splice for cross pipe and GD Ra | il |





3.UR-GM-FL985 4. UR-GM-BL1990



5. UR-GM-SK

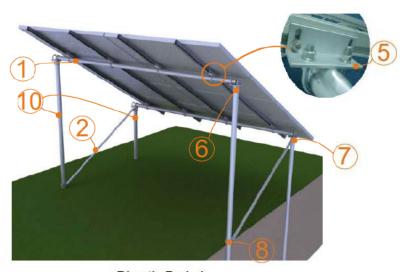
**UB-Ground Mounting System** 

# **COMPONENTS**

### **Cap Type Ground Mounting**

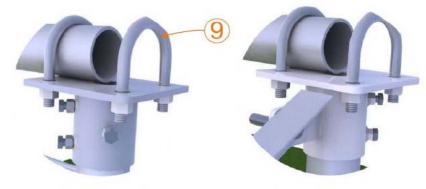
#### **Features**

- Material and finish: Hot galvanized & Dacromet steel Q235
- The steel cap can be applied flexibly on various condition
- Foundation option: a. Concrete b. Ground Screw c. Directly Buried



**Directly Buried** 

| Item No.     | Description.                |  |  |  |
|--------------|-----------------------------|--|--|--|
| UR-GM-C01    | Steel Cap 1# for Pipe OD60  |  |  |  |
| UR-GM-C02    | Steel Cap 2# for Pipe OD60  |  |  |  |
| UR-GM-C03    | Steel Cap 3# for Pipe OD60  |  |  |  |
| UR-FA-UB60   | U bolt kit M12x76, DACROMET |  |  |  |
| UR-P2-Length | Pipe, Front & Back Leg      |  |  |  |



Installation of Steel Cap 1#

Installation of Steel Cap 2#



6. UR-GM-C01



7. UR-GM-C02



8. UR-GM-C03



9. UR-FA-UB60



10. UR-P2-Length



Installation of Steel Cap 3#

**UB-Ground Mounting System** 

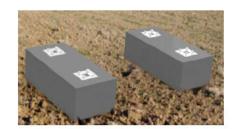
# PROJECT EXAMPLE

### **Project Information**

| Tilt Angle: | 0-30 deg                               | Flood | Height:         | 600mm  |
|-------------|--|-------|-----------------|--------|
|             | 0-30 deg                               | Wind  | Speed:          | Normal |
| Unit Array: | 4*2 (8 pcs panels) 4*3 (12 pcs panels) |       | (12 pcs panels) |        |

### **Solution 1: Integrated Ground Mount**

| Product       | 0          | Q         | ty        |
|---------------|------------|-----------|-----------|
| ltem          | Spec.      | Array 4*2 | Array 4*3 |
| UR-DR-3405    | 3405mm     | 4pcs      | 6pcs      |
| UR-IC-F46     | 46mm       | 12pcs     | 18pcs     |
| UR-EC-F46     | 46mm       | 8pcs      | 12pcs     |
| UR-GM-SK      | 50*6*140mm | 8pcs      | 12pcs     |
| UR-GM-FL985   | 985mm      | 2pcs      | 2pcs      |
| UR-GM-BL1990  | 1990mm     | 2pcs      | 2pcs      |
| UR-AS-40/1820 | 1820mm     | 2pcs      | 2pcs      |
| UR-CP-60/3200 | 3200mm     | 2pcs      | X         |
| UR-CP-60/4800 | 4800mm     | X         | 2pcs      |



Concrete Foundation

## **Solution 2: Cap type Ground Mount**

| Product       | Spec.      | Qty       |           |  |
|---------------|------------|-----------|-----------|--|
| Item          | орес.      | Array 4*2 | Array 4*3 |  |
| UR-DR-3405    | 3405mm     | 4pcs      | 6pcs      |  |
| UR-IC-F46     | 46mm       | 12pcs     | 18pcs     |  |
| UR-EC-F46     | 46mm       | 8pcs      | 12pcs     |  |
| UR-GM-SK      | 50*6*140mm | 8pcs      | 12pcs     |  |
| UR-GM-C01     | 1#         | 2pcs      | 2pcs      |  |
| UR-GM-C02     | 2#         | 2pcs      | 2pcs      |  |
| UR-GM-C03     | 3#         | 2pcs      | 2pcs      |  |
| UR-FA-UB60    | M12x76     | 8pcs      | 8pcs      |  |
| UR-P2-1985    | 1985mm     | 2pcs      | 2pcs      |  |
| UR-P2-2990    | 2990mm     | 2pcs      | 2pcs      |  |
| UR-AS-40/1820 | 1820mm     | 2pcs      | 2pcs      |  |
| UR-CP-60/3200 | 3200mm     | 2pcs      | X         |  |
| UR-CP-60/4800 | 4800mm     | X         | 2pcs      |  |

Note: The above is suitable for the directly buried solution.

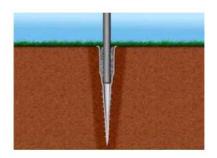
Foundation Option 2: Ground Screw

UR-N76-1600 OD76\*1600 4pcs 4pcs

Note: The front and back leg can be shorted 700mm.



**Directly Buried** 



Ground Screw Foundation

#### **Pile-Ground Mounting System**



UR Pile Ground System is applied for large commercial and utility PV systems on non-sandy ground, suitable for both framed and frameless module installation.

In UR Pile Ground System, Open Post can be pile into the ground 1-2 meters by pile machine quickly, then easily mounting the pre-assembled Al-Beam structure, B-Rail with clamps.

Our mission is to simplify your installation and ensure the structure safety. UR Energy, your best choice.

#### **Product Features**

#### 1. Safety and Reliability:

Check and test the structure strictly to against the extreme weather condition.

#### 2. Easy Installation:

Parts have been high pre-assembly on factory to save your installation time.

#### 3. Flexibility and Adjustable:

Smart design reduce the difficulty of the installation on the most condition .

#### 4. 10 Years Warranty:

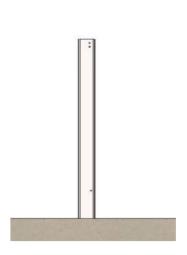
UR Energy provides a 10-years warranty for the material and structure.

| Technical Paramete | rs                              |
|--------------------|---------------------------------|
| Installation Site  | Open Field                      |
| Max Wind Speed     | up to 60m/s                     |
| Snow Load          | up to1. 4KN/m²                  |
| Module Type        | Framed or Frameless             |
| Module Orientation | Portrait                        |
| Rail Material      | Anodized Aluminum               |
| Post Material      | Hot-dip Galvanized Steel        |
|                    | Post Height Deviation: 10mm     |
| Adjustability      | Post Angle Deviation: 2°        |
|                    | Post Verticality Deviation: 2°  |
|                    | Pile Driving Depth: 1000~2000mm |
| Soil Condition     | Non-Sandy                       |

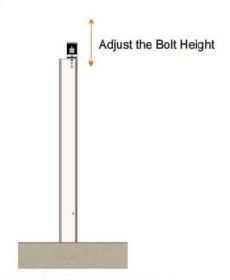


**Pile-Ground Mounting System** 

# **INSTALLATION STEPS**



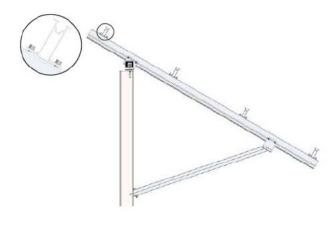
Step 1: Pile the Open Post by Pile Machine



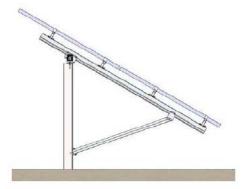
Step 2: Install and adjust the Top Cap



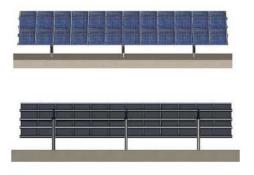
Step 3: Install the Assembby of Beam



Step 4: Install the B-Rail by Rail Clamp



Step 5: Install the Modules



Finish

**Pile-Ground Mounting System** 

# **COMPONENTS**

### **System Overview**





2. UR-PG-BA30 (Fold Package)



3. UR-PG-TC



4. UR-BR-4990

|       |      |    | eff. |
|-------|------|----|------|
| 100   | 1000 |    |      |
| -     |      |    | -4   |
| - 101 | -    |    | 4    |
|       | 100  | de | 1    |
|       | *    | ₩. |      |

5. UR-BR-SP



6. UR-BR-C60

| Item No.     | Description      |
|--------------|------------------|
| UR-PG-OP2950 | Open Post 2950mm |

Material: Q235 Steel

| UR-PG-TC   | Assembly of Top Cap   |
|------------|---|
| UR-PG-BA30 | Assembly of Support Beam, 30deg<br>-For Module length 1400~1600mm<br>-High Pre-Assembly |
| UR-BR-4990 | B-Rail 4990mm   |
| UR-BR-SP   | B-Rail Splice   |
| UR-BR-C60  | B-Rail Clamp  |

Material: Aluminum Alloy 6005-T5

**Pile-Ground Mounting System** 

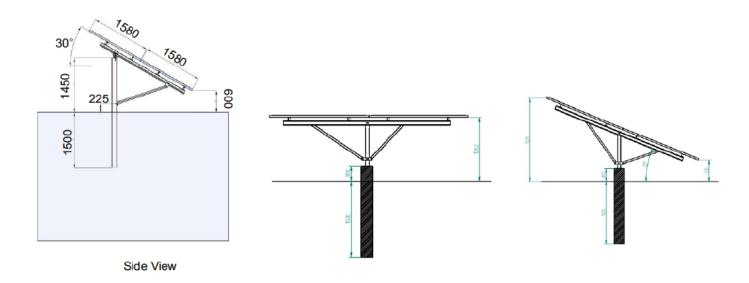
# **PROJECT EXAMPLE**

### **Project Information**

| Tilt Angle:         | 0 - 30 deg          |
|---------------------|---------------------|
| Module Orientation: | Portrait            |
| Unit Array:         | 2*12 (24pcs panels) |

| Flood Height:   | 600mm     |
|-----------------|-----------|
| Wind Speed:     | <45m/s    |
| Soil Condition: | Non Sandy |
| Pile Height:    | 1500mm    |

### **2D Planning Drawing**



# **Components List**

| Item         | Description                     | Spec.  | Qty   |
|--------------|---------------------------------|--------|-------|
| UR-BR-4990   | B-Rail 4990                     | 4990mm | 8pcs  |
| UR-BR-SP     | B-Rail Splice                   | 200mm  | 4pcs  |
| UR-BR-C60    | B-Rail Clamp                    | 60mm   | 24pcs |
| UR-IC-F46    | Inter Clamp Kit                 | 46mm   | 44pcs |
| UR-EC-F46    | End Clamp Kit                   | 46mm   | 8pcs  |
| UR-PG-BA30   | Assembly of Support Beam, 30deg | 30°    | 3pcs  |
| UR-PG-TC     | Aluminum Top Cap                | 80mm   | 3pcs  |
| UR-PG-OP2950 | Open Post 2950                  | 2950mm | 3pcs  |

#### **C-Steel Ground Mounting System**





Main Beam Pre assembled



Front/Rear Post Pre assembled



#### Rail



**Ground Screws** 

#### **Product Features**

#### 1. Simple Design

These products are factory assembled, well packaged, which highly reduce on site installation time by 40% compared to traditional type. Team of 4 professional labours can install 200KWin 1 day.

#### 2. Universal

Design sophisticatedly so that it allows some adjustment during installation. This product can adopt concrete block or ground screw piles as foundation.

#### 3. Safety and Reliability

The design has followed japan JIS standard and have obtained TUV and MCS certification.

#### 4. 10 Years Warranty

Steel are hot dipped galvanized with average galvanization thickness of 85, can stand up to the extreme weather conditions.

The main support components have also been tested to guarantee its structure and loadbearing capacity.

| Technical Parameters |  |  |
|----------------------|--|--|
| Application          | Open Terrain                                   |  |
| Wind Load            | upto 60m/s                                     |  |
| Snow Load            | upto 1.4KN/m²                                  |  |
| Module Layout        | As per requirement                             |  |
| Module Orientation   | Landscape/Portrait                             |  |
| Module Inclination   | 0° - 45°                                       |  |
| Ground Clearance     | Standard 600mm or customized                   |  |
| Standard             | JIS  |  |
| Warranty             | 25 Years                                       |  |
| Certification        | MCS, AS/NZS 1170, SGS                          |  |
| Material             | Q235B, Q345B, Hot Dipped Galvanization, SUS304 |  |
| Yield Strength       | 260N/mm²                                       |  |



Back Tie and Mid/End Clamp







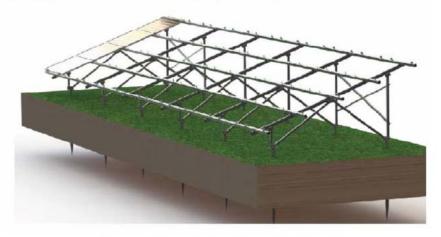








#### **Slope-Ground Mounting System**





- URE ground mounting solution is applied for the large commercial and utility scale PV system on a non-sandy ground.
- · All Aluminum Structure.
- Suitable for framed or frameless module installation.
- Ground Screw or Concrete block as basis for option.
- Our mission is to simplify your installation and ensure the structure safety.



**Beam Connector** 



Connector



**Ground Piles** 



Main Beam



Rail Splice

#### **Product Features**

- 1. Easy installation:
  - All Aluminum structure, very light.
  - Pre-assemble in factory to save installation time
- 2. High corrosion resistance ability, suit for high salinity environment such as sea coastline
- 3. Safety and Reliability:

Structure is made of 6005-T5 aluminum alloy material, that makes the structure look nice and perfect at the same time, effectively ensure the structure strength.

| Technical Parameters |   |  |
|----------------------|---|--|
| Application          | Open Terrain - Ground Mount Residential or Big Solar Park |  |
| Wind Load            | upto 60m/s  |  |
| Snow Load            | 1.4KN/m²  |  |
| PV Modules           | Framed/Unframed   |  |
| Module Orientation   | Landscape/Portrait  |  |
| Module Inclination   | 0-45°   |  |
| Ground Clearance     | Around 600mm or customized                                |  |
| Standards            | JIS   |  |
| Material             | Aluminum, Steel 6005-T5                                   |  |
| Yield Strength       | 260N/mm²  |  |

#### **Aluminum Ground Mounting System**



These products are factory assembled, well packaged, which highly reduce on site installation time by 40% compared to traditional type. Team of 4 professional labours can install 200KW in 1 day.

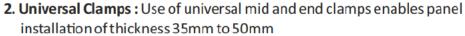


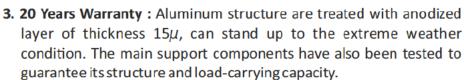
Pre-assembled Front / Rear Post

#### **Product Features**

#### 1. Safety Reliability:

The design has followed Japan JIS standard and have obtained TUV and MCS certification.









Main Beam



Rail



Rail Splice



**Universal Mid/End Clamps** 

#### Pole Mounting System





**Detail Figure** 

UR Pole Mount System is designed to install solar panels on a single pole. According to different conditions, several kinds of solutions are available.

UR Pole Mount System takes the importance of safety and duration. The systems have been calculated compilable with the structural mechanics and tested strictly. Material used include hot galvanized steel and anodized aluminum alloy, with great anti-corrosive suitable for outdoor using.

#### **Product Features**

#### 1. Steady and Safety:

Design and check the structure according to the structural mechanics and construction acts.

#### 2. Easy Installation:

Integrated Design for the support pole minimizing time and cost of installation

#### 3. Excellence Duration:

For outdoor using, all the material selected with high class anti-corrosion protection.

#### 4. Great Flexibility

Tilt angle can be adjusted according to the actual needs on the install site.

| Technical Parameters |                      |  |
|----------------------|----------------------|--|
| Installation Site    | Open Field           |  |
| Tilt Angle           | 10deg~60deg          |  |
| Building Height      | 20 meters            |  |
| Max Wind Speed       | Up to 60m/s          |  |
| Max Snow Load        | up to1. 4KN/m²       |  |
| Standard             | AS/NZS1170 and other |  |
| Post Material        | Galvanized Steel     |  |
| Rail Steel           | Anodized Aluminum    |  |
| Warranty             | 10 Years Warranty    |  |



**Pole Mounting System** 

# **COMPONENTS**

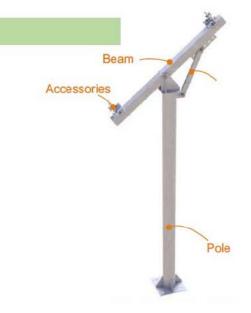
### **POLE MOUNT 2#**

#### **Features**

- · Material: Hot galvanized steel Q235
- · High integrated to reduce the bolt
- Install area of modules: up to 3.2 m (wind speed<45m/s)
- · Foundation: concrete with pre-buried bolt

| Item No.   | Description   |  |
|------------|---|--|
| UR-PM02-01 | Pole support for 2 pcs module - Pole OD89x1490mm x 1pc - Beam 50x900mm x 1pc - Adjustable bar x 1pc - Accessories and Fastens |  |

Note: the length of the Beam and Pole can be customized for different conditions



### **POLE MOUNT 6#**

#### **Features**

- Material: Hot galvanized steel Q235
- · High integrated to reduce the bolt
- Install area of modules: up to 8.3 m²(wind speed<45m/s)</li>
- Foundation: concrete with pre-buried bolt

| Item No.   | Description   |
|------------|---|
| UR-PM06-01 | Pole support for 6 pcs module - Pole OD140x1490mm x1pc - Beam 80x1300mm x 1pc - Purlin C100x2600mm x 2pcs - Adjustable bar x 1pcs - Accessories and Fastens |

Note: the length of the Pole, Beam and Purlin can be customized for different conditions



#### **Pole Mounting System**

# **COMPONENTS**

### **POLE MOUNT 8#**

#### **Features**

- · Material: Hot galvanized steel Q235
- High integrated to reduce the bolt
- Install area of modules: up to 11.5 m²(wind speed<45m/s)</li>
- · Foundation: concrete with pre-buried bolt

| Item No.   | Description   |
|------------|---|
| UR-PM08-01 | Pole support for 8 pcs module - Pole OD165x1490mm x 1pc - Beam 100x1800mm x 1pc - Purlin C100x2600mm x 3 pcs - Adjustable bar x 1pc - Accessories and fastens |

Note: the length of the Pole, Beam and Purlin can be customized for different conditions



**Pole Mounting System** 

# **PROJECT EXAMPLE**

## **Project Information**

| Tilt Angle: | 10~60 deg                     | Pole Height: | 1500mm |
|-------------|-------------------------------|--------------|--------|
|             |                               | Wind Speed:  | <45m/s |
| Foundation: | Concrete with pre-buried bolt |              |        |
| Array 1#    | 1*2 (2 pcs panels)            |              |        |
| Array 2#    | 3*2 (6 pcs panels)            |              |        |
| Array 3#    | 4*2 (8 pcs panels)            |              |        |

## Array 1#

| Product    | Spec.  | Qty  |
|------------|--------|------|
| Item       | Ороб.  | 1x2  |
| UR-DR-1700 | 1700mm | 2pcs |
| UR-IC-F46  | 46mm   | 2pcs |
| UR-EC-F46  | 46mm   | 4pcs |
| UR-PM02-01 | 1500mm | 1pcs |

# Array 2#

| Product Spec. |        | Qty  |
|---------------|--------|------|
| Item          | Орес.  | 3x2  |
| UR-DR-2560    | 2560mm | 4pcs |
| UR-IC-F46     | 46mm   | 8pcs |
| UR-EC-F46     | 46mm   | 8pcs |
| UR-PM06-01    | 1500mm | 1pcs |

## Array 3#

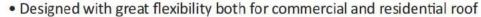
| Product    | Spec.  | Qty   |
|------------|--------|-------|
| Item       | орес.  | 4x2   |
| UR-DR-3405 | 3405mm | 4pcs  |
| UR-IC-F46  | 46mm   | 12pcs |
| UR-EC-F46  | 46mm   | 8pcs  |
| UR-PM08-01 | 1500mm | 1pcs  |



### Module Mounting System: Metal (Tin) Roof System









Rail



Mid / End Clamp









Roof Clamps / L Feet

#### **Product Features**

#### 1. Easy installation:

- Click in system, smart and easy for installation
- Universal end/middle clamp suit for 30-55mm panels
- 5 components for verticle mounting

#### 2. Safety and Reliability:

AS/NZS1170, CE certified



Rail Splice

| Technical Parameters    |  |  |
|-------------------------|--|--|
| upto 20m                |  |  |
| upto 60m/s              |  |  |
| upto 1.4KN/m²           |  |  |
| MCS, AS/NZS 1170, SGS   |  |  |
| AL6005-T5, SUS304 A2-70 |  |  |
| 260N/mm²                |  |  |
|                         |  |  |















### Module Mounting System: Metal (Tin) Roof System

#### **Metal Roof Clamps**

URE-RC01

Roof Clamp 01 Material: SUS 304



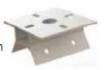
**URE-RC03** 

Roof Clamp 03 Material: SUS 304



URE-RC04

Roof Clamp 04 Material: Aluminium



URE-RC05

Roof Clamp 05 Material: Aluminium



**URE-RC06** 

Roof Clamp 06 Material: Aluminium



URE-RC07

Roof Clamp 07 Material: Aluminium



URE-RC09

Roof Clamp 09 Material: Aluminium



URE-RC12

Roof Clamp 12 Material: Aluminium



URE-RC13

Roof Clamp 13

Material: Aluminium



URE-RC15

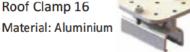
Roof Clamp 15

Material: Aluminium



**URE-RC16** 

Roof Clamp 16





Roof Clamp 19

Material: Aluminium



URE-RC22

Roof Clamp 22 Material: Aluminium



**URE-RC23** 

Roof Clamp 23 Material: Aluminium



**URE-RC24** 

Roof Clamp 13

Material: Aluminiun



URE-RC25

Roof Clamp 25

Material: Aluminium



URE-LF01-56D

Hanger bolt with L feet Material: Aluminium

+ SUS 304



**URE-LF02** 

L - Feet

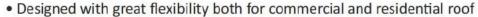
Material: Aluminium



#### Tile Roof









Rail



Hook



Mid / End Clamp

#### **Product Features**

#### 1. Easy installation:

- Click in system, smart and easy for installation
- Universal end/middle clamp suit for 30-55mm panels
- 5 components for verticle mounting
- 6 components for landscape mounting

#### 2. Safety and Reliability:

MCS, AS/NZS1170, CE certified



Rail Splice

| Building       | Up to 20m               |
|----------------|-------------------------|
| Wind Load      | upto 60m/s              |
| Snow Load      | upto 1.4KN/m²           |
| Warranty       | 20 Years                |
| Certification  | MCS, AS/NZS 1170, SGS   |
| Material       | AL6005-T5, SUS304 A2-70 |
| Yield Strength | 260N/mm²                |















#### Tile Roof Hooks

#### **URE-HK01**

Tile Hook 1

Material: Stainless Steel SUS 304



#### **URE-HK03**

Tile Hook 03

Material: Stainless Steel SUS 304



#### **URE-HK05**

Tile Hook 05

Material: Stainless Steel SUS 304



#### **URE-HK06**

Tile Hook 06

Material: Stainless Steel SUS 304



#### **URE-HK07**

Tile Hook 07

Material: Stainless Steel SUS 304



#### **URE-HK08**

Tile Hook 08

Material: Stainless Steel SUS 304



#### URE-HK09

Tile Hook 09

Material: Stainless Steel SUS 304



#### **URE-HK10**

Tile Hook 10

Material: Stainless Steel SUS 304



#### URE-HK11

Tile Hook 11

Material: Stainless Steel SUS 304



#### URE-HK12

Tile Hook 12

Material: Stainless Steel SUS 304



#### URE-HK13

Tile Hook 13

Material: Stainless Steel SUS 304



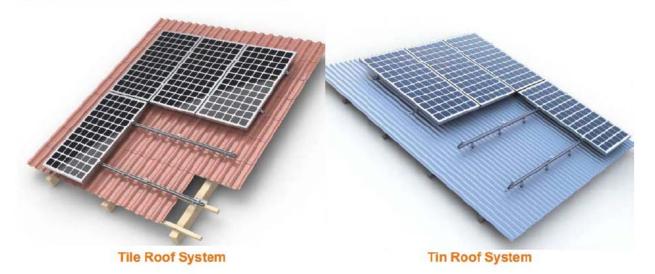
#### **URE-HK20**

Tile Hook 20

Material: Stainless Steel SUS 304



#### Pitched Roof Racking System



UR Pitched Roof Racking System designs with great flexibility both for commercial and residential roof solar system. it is suitable for installing framed and frameless modules flushed to the pitched roof. UR series product have the innovated design of GD Rail and D module make the installation more easily and quickly. High pre-assembly parts and customized solution to save your install time and money. UR have the excellent engineer team and quality management system to provide the perfect service. UR your best choice.

#### **Product Features**

#### 1. Safety Reliability:

The racking systems can stand up to the extreme weather complied with the AS/NZS 1170 and other international structure load standards by skilled engineers. The main support components have also been tested to guarantee its structure and load-carrying capacity.

#### 2. Easy Installation:

D-module can be put into GD Rail from any position. so the parts can be pre-assemblyed on factory to save your install time on site.

#### 3. Flexibility and Compatible:

GD Rail and its accessories can be installed with the most solar panels on the difference condition.

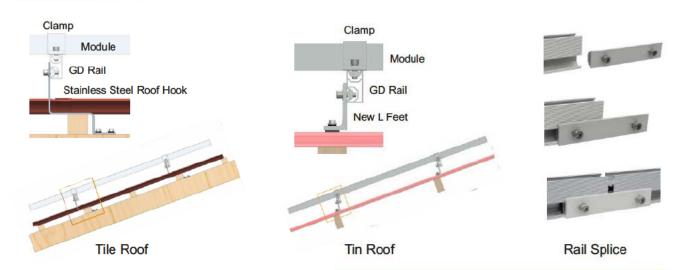
| Technical Paramete | ers                                |
|--------------------|------------------------------------|
| Installation Site  | Pitched Roof                       |
| Tilt Angle         | Flushed with the roof, up to 60deg |
| Building Height    | up to 20m                          |
| Max Wind Speed     | up to 60m/s                        |
| Snow Load          | up to1.4KN/m²                      |
| Standards          | AS/NZS 1170 & DIN 1055 & Other     |
| Material           | Aluminum alloy & Stainless steel   |
| Color              | Natural                            |
| Anti-corrosive     | Anodized                           |
| Warranty           | Ten years warranty                 |
| Duration           | More than 20 years                 |
|                    |                                    |



**Pitched Roof Racking System** 

# **COMPONENTS**

### **System Overview**



### Rail and Splice

| Item No.     | Description                                 |
|--------------|---|
| UR-DR-Length | GD Standard Rail -Have top and side channel |

Note: the standard length is 2560mm, 3405mm, 4200mm. the other must be customized

| UR-HR-Length  | GH Rail with a customized length -Have top and bottom channel |
|---------------|---|
|               |   |
|               |   |
| UR-DR4-Length | GD 4# Rail  |
|               | -Back connect   |
|               |   |
|               |   |
| UR-DR-SP      | GD Rail splice kit  |
| UR-DR4-SP     | GD 4# Rail splice kit   |
|               |   |

**UR-DR-SP** 





**UR-DR** 



UR-HR



**UR-DR4** 

**Pitched Roof Racking System** 

# **COMPONENTS**

# **Framed Module Clamp**







| Description                    |  |  |  |  |
|--------------------------------|--|--|--|--|
|                                |  |  |  |  |
| UR Inter Clamp Kit 30mm        |  |  |  |  |
| UR Inter Clamp Kit 35mm        |  |  |  |  |
| UR Inter Clamp Kit 40mm        |  |  |  |  |
| UR Inter Clamp Kit 46mm        |  |  |  |  |
| UR Inter Clamp Kit 50mm        |  |  |  |  |
| UR Inter Clamp Kit 57mm        |  |  |  |  |
|                                |  |  |  |  |
| UR End Clamp Kit 30mm          |  |  |  |  |
| UR End Clamp Kit 35mm          |  |  |  |  |
| UR End Clamp Kit 40mm          |  |  |  |  |
| UR End Clamp Kit 46mm          |  |  |  |  |
| UR End Clamp Kit 50mm          |  |  |  |  |
| UR End Clamp Kit 57mm          |  |  |  |  |
| Adjustable End Clamp Kit       |  |  |  |  |
| UR Adjustable End Clamp Kit 1# |  |  |  |  |
| UR Adjustable End Clamp Kit 2# |  |  |  |  |
|                                |  |  |  |  |



**UR-IC-F** 



**UR-EC-F** 



For Module Thickness from 25~60mm UR-EC-A01



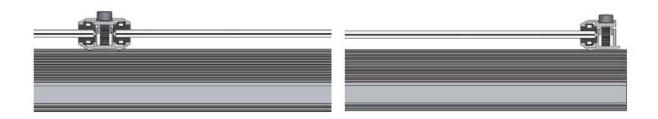


For Module Thickness from 30~58mm UR-EC-A02

**Pitched Roof Racking System** 

# **COMPONENTS**

# **Frameless Module Clamp**

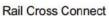


| Item No.  | Description                  |
|-----------|------------------------------|
| UR-IC-L80 | Thin Film Module Inter Clamp |
| UR-EC-L80 | Thin Film Module End Clamp   |
| UR-RC-D   | GD Rail Clamp                |



UR-IC-L80







UR-EC-L80



**UR-RC-D** 

**Pitched Roof Racking System** 

# **COMPONENTS**

### **Roman Tile Roof Hook**







UR-IK-01







UR-IK-06 UR-IK-14

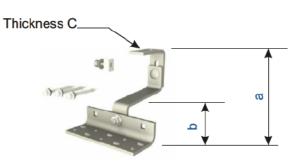
| Item No. | Description                  | Minute - One disting | Dimension (mm) |    |   |
|----------|------------------------------|----------------------|----------------|----|---|
|          |                              | Weather Condition    | а              | b  | С |
| UR-IK-01 | Stainless Steel Hook 1# Kit  | Normal               | 101            | 46 | 5 |
| UR-IK-06 | Stainless Steel Hook 6# Kit  | Normal               | 101            | 46 | 5 |
| UR-IK-14 | Stainless Steel Hook 14# Kit | Normal               | 101            |    | 5 |







UR-IK-12



UR-IK-15

| Item No. Description | Description                             | Material        | Dimension (mm) |       |   |
|----------------------|---|-----------------|----------------|-------|---|
|                      | Description                             |                 | а              | b     | С |
| UR-IK-12             | Adjustable Stainless Steel Hook 12# Kit | Stainless Steel | 156~176        | 38~50 | 5 |
| UR-IK-15             | Adjustable Stainless Steel Hook 15# Kit | Stainless Steel | 116~146        | 38~50 | 5 |
|                      |   |                 |                |       |   |
| UR-IK-HP             | Height Adjust Plate for Roof Hook       | Stainless Steel | 150            |       | 5 |

**Pitched Roof Racking System** 

# **COMPONENTS**

### **Roman Tile Roof Hook**







UR-AIK-01

#### Feature

·Material: Al6005-T5

·Variable Bar Height in roof batten area: 40~50mm

·Laterally adjustable in roof batten area

·Height adjustment in Rail area: up to 20mm

·Pressure parallel to roof surface: 0.7KN

·Pressure perpendicular to roof surface: 1.3KN

·Tensile Force Perpendicular to roof surface: -1.3KN

| Ham Nia   | Di-ii                     | Material | Dimension (mm) |       |     |  |
|-----------|---------------------------|----------|----------------|-------|-----|--|
| Item No.  | Description               |          | а              | b     | С   |  |
| UR-AIK-01 | Aluminum Roof Hook 1# kit | Aluminum | 172~182        | 40~50 | 6~8 |  |

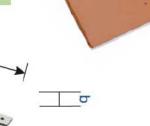
**Pitched Roof Racking System** 

# **COMPONENTS**

### **Flat Tile Roof Hook**







UR-IK-02

UR-IK-02-A

UR-IK-02-B

| Item No.   | Description                    | Weather Condition | Dimension (mm) |    |           |
|------------|--------------------------------|-------------------|----------------|----|-----------|
|            |                                |                   | а              | b  | Thickness |
| UR-IK-02   | Stainless Steel Hook 2#        | Normal            | 190            | 30 | 5         |
| UR-IK-02-A | Stainless Steel Hook 2# A type | Normal            | 190            | 30 | 5         |
| UR-IK-02-B | Stainless Steel Hook 2# B type | Normal            | 190            | 30 | 5         |

# **Shingle Tile Roof Hook**









UR-IK-04

UR-IK-04-A

UR-IK-04-B

| Itam Na    | Description                    | Weather Condition | Dimension (mm) |       |           |
|------------|--------------------------------|-------------------|----------------|-------|-----------|
| Item No.   |                                |                   | Length         | Width | Thickness |
| UR-IK-04   | Stainless Steel Hook 4#        | Normal            | 200            | 30    | 5         |
| UR-IK-04-A | Stainless Steel Hook 4# A type | Normal            | 200            | 30    | 5         |
| UR-IK-04-B | Stainless Steel Hook 4# B type | Normal            | 200            | 30    | 5         |

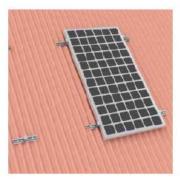
**Pitched Roof Racking System** 

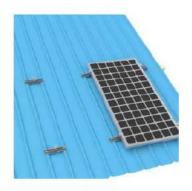
# **COMPONENTS**

## **Flat Rail Hook**









|--|--| |--|--|

210mm

Shingle Roof UR-IK-FR

Corrugated roof UR-IK-FR-02

Trapezoid roof UR-IK-FR-02

#### **Feature**

·Material: Al6005-T5

·Fasten by 2 x Wood Screw St6.3x80



**UR-IK-FR** 

| Item No.    | Description     | Length(mm) |
|-------------|-----------------|------------|
| UR-IK-FR    | FB Rail Hook 1# | 120        |
| UR-IK-FR-02 | FB Rail Hook 2# | 250        |

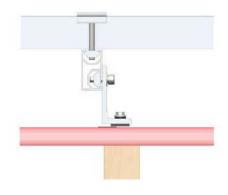


UR-IK-FR-02

**Pitched Roof Racking System** 

# **COMPONENTS**

## **Tin Roof Hook**













UR-IK-H01



UR-IK-H04



UR-IK-H05

| Item No.  | Description                   | Accessories                  |
|-----------|-------------------------------|------------------------------|
| UR-IK-05  | Aluminum Tin Interface Kit 5# | Wood Screw M6.3x80           |
| UR-IK-H01 | Hanger Bolt Hook 1#           | Hanger bolt M10x200          |
| UR-IK-H04 | Hanger Bolt Hook 4#           | Hanger bolt M10x200 & L Feet |
| UR-IK-H05 | Hanger Bolt Hook 5#           | Hanger bolt M10x200          |

**Pitched Roof Racking System** 

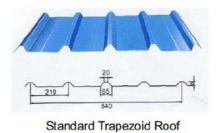
UR-IK-07

# **COMPONENTS**

## **Trapezoid Metal Roof Hook**







UR-IK-07-B UR-IK-07-A

| Item No.   | Description                    |
|------------|--------------------------------|
| UR-IK-07   | Stainless Steel Hook 7#        |
| UR-IK-07-A | Stainless Steel Hook 7# A type |
| UR-IK-07-B | Stainless Steel Hook 7# B type |

Note: Standard product is just fitted with the trapezoid roof as right figure shown other size must consider the mould cost

## **Universal Trapezoid Metal Roof Hook**



#### **Feature**

- ·Material: Al6005-T5 & Sus304 & EPDM
- ·Suitable for trapezoid metal roof: a<80mm, b>25mm

| Item No.  | Description                            |
|-----------|--|
| UR-UTK-01 | Universal Trapezoid Metal Roof Hook 1# |









## **Pitched Roof Racking System**

# **COMPONENTS**

## **Standing Seam Roof Hook**



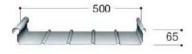
Butler-roof



UR-IK-S01



UR-IK-S04



KalZip-roof



UR-IK-S02



UR-IK-S02-A



Zambelli Rib Roof Speed 500



UR-IK-S03



UR-IK-S03-A



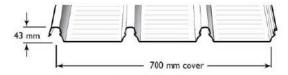
Klip-lok 700



UR-IK-SK7



UR-IK-SK7-A



Klip-lok 700 Hi-Strength



UR-IK-S07

| Item No.    | Description                       | Roof Type                  |
|-------------|-----------------------------------|----------------------------|
| UR-IK-S01   | Standing Seam Roof Hook 1#        | Butler Roof                |
| UR-IK-S04   | Standing Seam Roof Hook 4#        | Butler Roof                |
| UR-IK-S02   | Standing Seam Roof Hook 2#        | KalZip- Bemo-roofs         |
| UR-IK-S02-A | Standing Seam Roof Hook 2# A Type | KalZip- Bemo-roofs         |
| UR-IK-S03   | Standing Seam Roof Hook 3#        | Zambelli RibRoof Speed 500 |
| UR-IK-S03-A | Standing Seam Roof Hook 3# A Type | Zambelli RibRoof Speed 500 |
| UR-IK-SK7   | Standing Seam Roof Hook K7        | Klip-Lok 700               |
| UR-IK-SK7-A | Standing Seam Roof Hook K7A Type  | Klip-Lok 700               |
| UR-IK-S07   | Standing Seam Roof Hook 7#        | Klip-Lok 700 Hi-Strength   |

**Pitched Roof Racking System** 

# **COMPONENTS**

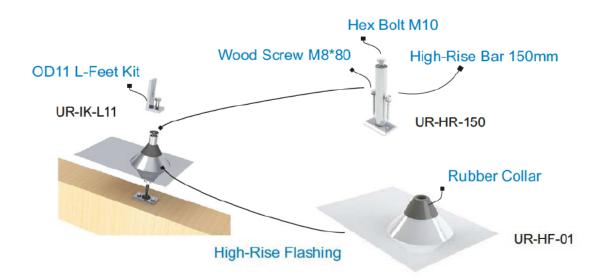
## **Flashing Hook**



#### **Features**

- · All-in-one waterproof flashing and mount to anchor photovoltaic racking systems
- · Fit with in most composition and wood shingle roof systems
- · Non-fading sealing collar
- · Not for hot-mopped or built-up roofs
- Do not use paint or petroleum based products on rubber collars

| Item No.  | Description   |
|-----------|---|
| UR-HR-150 | High-Rise Bar, Height is150mm -Height can be customized |
| UR-HF-01  | High-Rise Flashing1#, 305x205x1mm                       |
| UR-IK-L11 | OD11 L Feet Kit   |



## **Pitched Roof Racking System**

# **COMPONENTS**

## Accessories

|   | UR-A-IC    | Framed Module Inter Clamp                  | -        |
|---|------------|--|----------|
| ı |            |  |          |
|   | UR-A-EC30  | Framed Module End Clamp 30                 |          |
|   | UR-A-EC35  | Framed Module End Clamp 35                 |          |
|   | UR-A-EC40  | Framed Module End Clamp 40                 |          |
|   | UR-A-EC46  | Framed Module End Clamp 46                 |          |
|   | UR-A-EC50  | Framed Module End Clamp 50                 |          |
|   | UR-A-EC57  | Framed Module End Clamp 57                 |          |
|   |            |  |          |
|   | UR-A-DM    | D-Module,<br>-Width 20mm, M8 threaded hole |          |
|   |            |  |          |
|   | UR-A-PC01  | Plastic Cable Clip 1#                      | <b>3</b> |
| Ī |            |  |          |
|   | UR-SSCC-01 | SS Cable Clip 1#                           | - 8      |
|   |            |  |          |
|   | UR-SSCC-02 | SS Cable Clip 2#                           |          |
| Ī |            |  |          |
|   | UR-A-DRC   | GD Rail Cap                                | <b>₹</b> |
| Ī |            |  |          |

**Pitched Roof Racking System** 

# **COMPONENTS**

## **Fastener**

| Socket Head ScrewStainless Steel A2-70 |                         |  |  |  |
|--|-------------------------|--|--|--|
| UR-F-S820                              | Socket Head Screw M8x20 |  |  |  |
| UR-F-S825                              | Socket Head Screw M8x25 |  |  |  |
| UR-F-S828                              | Socket Head Screw M8x28 |  |  |  |
| UR-F-S830                              | Socket Head Screw M8x30 |  |  |  |
| UR-F-S835                              | Socket Head Screw M8x35 |  |  |  |
| UR-F-S840                              | Socket Head Screw M8x40 |  |  |  |
| UR-F-S845                              | Socket Head Screw M8x45 |  |  |  |
| UR-F-S850                              | Socket Head Screw M8x50 |  |  |  |
| UR-F-S855                              | Socket Head Screw M8x55 |  |  |  |
| UR-F-S860                              | Socket Head Screw M8x60 |  |  |  |
| UR-F-S865                              | Socket Head Screw M8x65 |  |  |  |



| Anti-Thief ScrewStainless Steel A2-70 |                         |  |  |  |  |
|---------------------------------------|-------------------------|--|--|--|--|
| UR-F-AS820                            | Anti-Thief Screw M8x20  |  |  |  |  |
| UR-F-AS825                            | Anti-Thief Screw M8x25  |  |  |  |  |
| UR-F-AS828                            | Anti-Thief Screw M8x28  |  |  |  |  |
| UR-F-AS830                            | Anti-Thief Screw M8x30  |  |  |  |  |
| UR-F-AS835                            | Anti-Thief Screw M8x35  |  |  |  |  |
| UR-F-AS840                            | Anti-Thief Screw M8x40  |  |  |  |  |
| UR-F-AS845                            | Anti-Thief Screw M8x45  |  |  |  |  |
| UR-F-AS850                            | Anti-Thief Screw M8x50  |  |  |  |  |
| UR-F-AS855                            | Anti-Thief Screw M8x55  |  |  |  |  |
| UR-F-AS860                            | Anti-Thief Screw M8x60  |  |  |  |  |
| UR-F-AS865                            | Anti-Thief Screw M8x65  |  |  |  |  |
|                                       |                         |  |  |  |  |
| UR-F-AB08                             | Anti-Thief Screw Bit M8 |  |  |  |  |











## **Pitched Roof Racking System**

# **COMPONENTS**

## **Screws and Accessories**

| WasherStainless Steel A2-70 |                       |  |  |  |
|-----------------------------|-----------------------|--|--|--|
| UR-F-W108                   | Spring Washer, M8     |  |  |  |
| UR-F-W208                   | Lock Washer, M8, OD13 |  |  |  |
| UR-F-W308                   | Lock Washer, M8, OD18 |  |  |  |







### Self-tapping Screw-----Stainless Steel 410

UR-F-T625 Self-tapping Screw, St6.3x25



### Wood Screw

UR-F-W680 Wood Screw, St6.3x80

With Pad



### Hanger Bolt

UR-F-H020 Hanger Bolt M10x200 -Stainless Steel A2-70



### Hanger Bolt Assembly

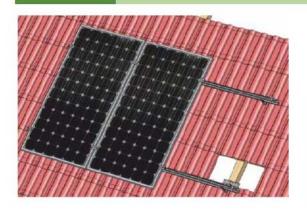
UR-FA-H020 Hanger Bolt Assembly M10x200

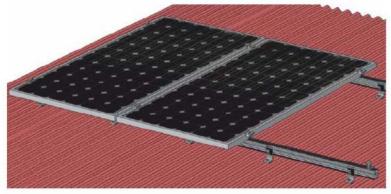


**Pitched Roof Racking System** 

# **PROJECT EXAMPLE**

# Framed Module Project





| Solar Panels Size:<br>1580*808*46mm or<br>1585*826*46mm |                 | Roof Hock<br>UR-IK-01 (Tile)<br>UR-IK-05 (Tin) | Inter Clamp<br>UR-IC-F46 | End Clamp<br>UR-EC-F46 | Rail Splice<br>UR-DR-SP |
|---|-----------------|--|--------------------------|------------------------|-------------------------|
| Tile Roof 3 Panels                                      | 2560mm<br>2 pcs | 6  | 4                        | 4                      | 2                       |
| Tile Roof 4 Panels                                      | 3405mm<br>2pcs  | 6  | 6                        | 4                      | 2                       |
| Tin Roof 3 Panels                                       | 2560mm<br>2 pcs | 10   | 4                        | 4                      | 2                       |
| Tin Roof 4 Panels                                       | 3405mm<br>2 pcs | 10   | 6                        | 4                      | 2                       |

Note: The above planning is applicable to the low snow loads and normal wind loads.

## **Frameless Module Project**



| Solar Panels Size:<br>1200*600*6.8mm | Top Floor | UR Rail<br>Bottom Floor<br>UR-DR-2560 | CONTRACTOR TO STATE OF THE STAT | Thin Film<br>End Clamp<br>UR-EC-L80 | GD Rail Clamp<br>UR-RCD | Roof Hook 1#<br>UR-IK-01 |
|--------------------------------------|-----------|---------------------------------------|--|-------------------------------------|-------------------------|--------------------------|
| Tile Roof 8 Panels                   | 2560mm    | 2560mm                                | 80mm   | 80mm                                | 40mm                    | Thickness 5mm            |
| Array 4x2                            | 4 pcs     | 2 pcs                                 | 12 pcs   | 8 pcs                               | 8 pcs                   | 6 pcs                    |

Note: The above planning is applicable to the low snow loads and normal wind loads.

## **Module Mounting System: Water Floating Mounting System**

### **Floating Mounting System**



- Designed with great flexibility both for commercial and residential roof.
- Does not occupy land surface, it is installed over the water surface.
   This floating mounting system extremely helps to reduce water evaporation.



**Main Floating Body** 

### **Product Features**

### 1. Safety Reliability:

The each component has passed through SGS testing and certification to ensure the stability and security of the system.

### 2. Convenient Installation:

Water below the floating surface acts as cooling agent for the solar panels, which eventually will help to increase the electricity production by 10%.

### 3. 10 Years Warranty:

Using high intensity Anti-UV materials, it ensures the strength and antiageing of the structure.



| Installation Site | Water Surface                   |  |
|-------------------|---------------------------------|--|
| Base              | Main Floating Body              |  |
| Material          | Weather proof plastic, Aluminum |  |
| Wind Load         | ≤30 m/s                         |  |
| Snow Load         | ≤1 kN/m                         |  |



## **Module Mounting System: Carport Parking Mounting System**

### Carport





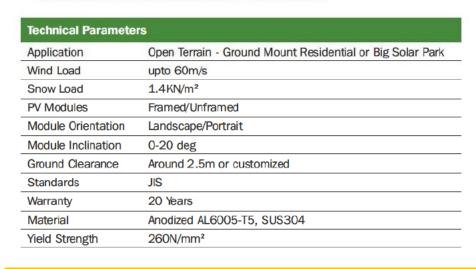
- URE carport solution is applied for the large commercial and utility carport solution.
- · Aluminum Structure.
- Suitable for framed or frameless module installation.
- Ground Screw or Concrete block as basis for option.
- 4.5KW (250w) is a standard space for two cars.



130 Rail

### **Product Features**

- 1. Easy installation:
  - All Aluminum structure, very light.
  - Pre-assemble in factory to save installation time
- 2. High corrosion resistance ability, suit for high salinity environment such as sea coastline
- **3. Universal Clamps:** Use of universal mid and end clamps enables panel installation of thickness 35mm to 50mm
- Safety and Reliability: The design has followed Japan JIS standard and have obtained TUV and MCS certification.





130 Rail Splice





**Universal Mid/End Clamps** 





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