



友巨新能源  
HUGE ENERGY

# Bottom/Back Clamp Solution for RC Rooftop



Xiamen Huge Energy

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## Introduction

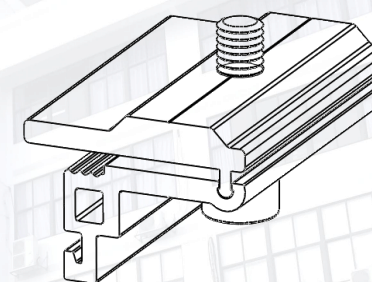
Back clamp, or bottom clamp, made of anodized AL6005-T5, is used to fix solar module on the rail by clamping the bottom frame edge of PV module and the edge of the rail under the solar module. It is a special replacement of traditional mid clamp and end clamp, and is recommended for applications with ground clearance more than 1.5 meters.

### Features

- \* More Space
- \* More Safety
- \* Fast Installation and Convenient Maintenance

### Benefits

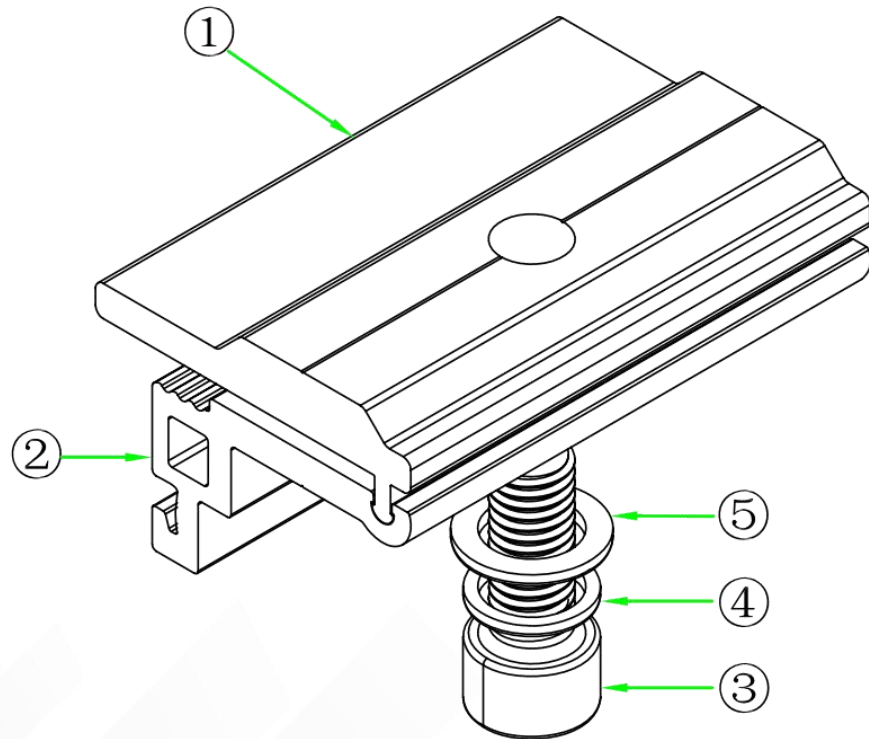
- Reduces the gap between two adjacent solar modules.
- Fast Installation. It can be fastened underneath. No need to climb onto solar modules.
- Clear surface without clamps as obstacles all over the solar modules facilitates robot cleaning and snow slipping off the modules.
- Ensure installation compliance and safety on-site.



P/N: HE-19-Y3-25

## Back Clamp Exploded Diagram

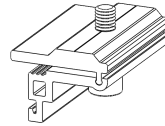
P/N: HE-19-Y3-25



No.	Component	P/N	QTY
1	3# Plate-B60	19-Y3-B60	1
2	3# Plate-A60	19-Y3-A60	1
3	Inner Hexagon Bolt M8*25	36-F8-25	1
4	M8 Spring Washer	36-P8	1
5	M8 Flat Washer	36-T8	1

# SGS Pull Test

P/N: HE-19-Y3-25



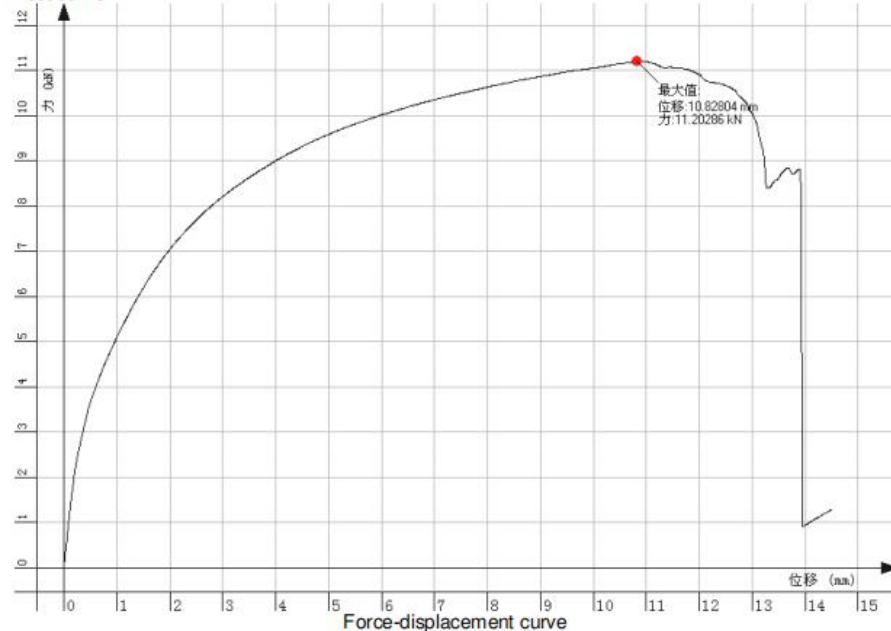
Pull test:

Test method: according to the client's requirements, fixed the sample on the fixture with 18N.m torque as photo2, load force by 0.2mm/s till destroyed or dislocated. Determine the maximum force.

Test Result:

Test item	Maximum force(kN)
Pull Test	11.20

Test curve:




## TEST REPORT

No. : XMIN1605002627ML  
Date : May 17, 2016  
Page : 1 of 3

CUSTOMER NAME: XIAMEN HUGE ENERGY TECHNOLOGY CO.,LTD  
ADDRESS: 270# CHANG HAO ROAD HULI DISTRICT XIAMEN CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:  
Sample Name : FIXED CLAMP FOR THE BACK OF PANEL (HE-19-Y3-25)  
Material and Mark : AL6005-T5  
Date of Receipt : May 06, 2016  
Testing Start Date : May 06, 2016  
Testing End Date : May 17, 2016  
Test result(s) : For further details, please refer to the following page(s)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd Xiamen Branch  
Testing Center



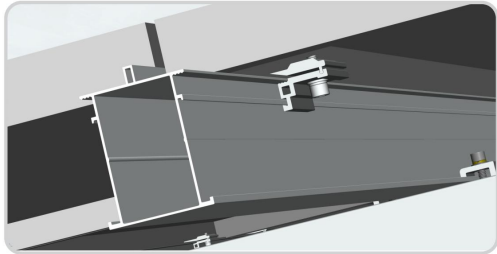
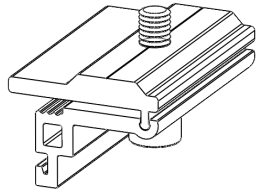
Spike Tang  
Authorized signatory



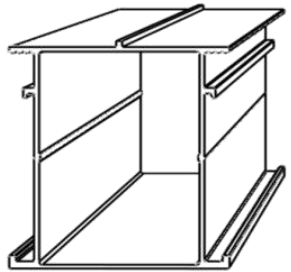
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## Application

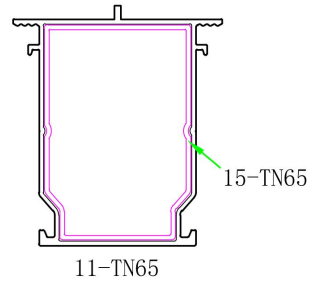
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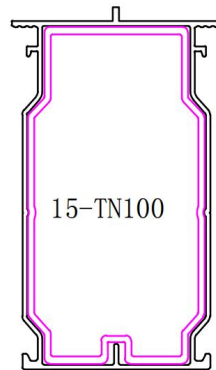
Suitable for Rails made by Xiamen Huge Energy



**11-YN75-C**  
Height 75mm



**11-TN65**  
Height 65mm

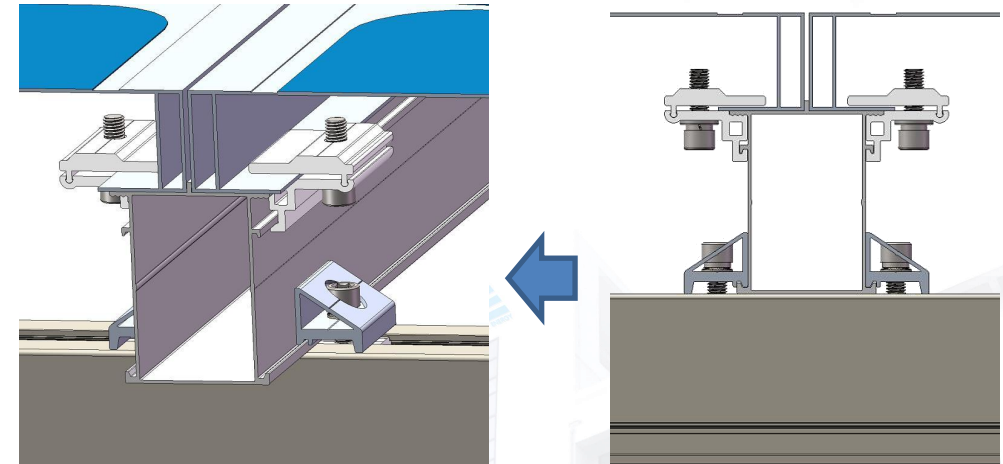
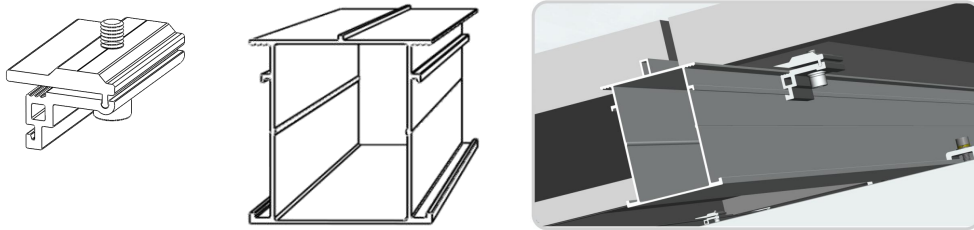


**11-TN100**  
Height 100mm

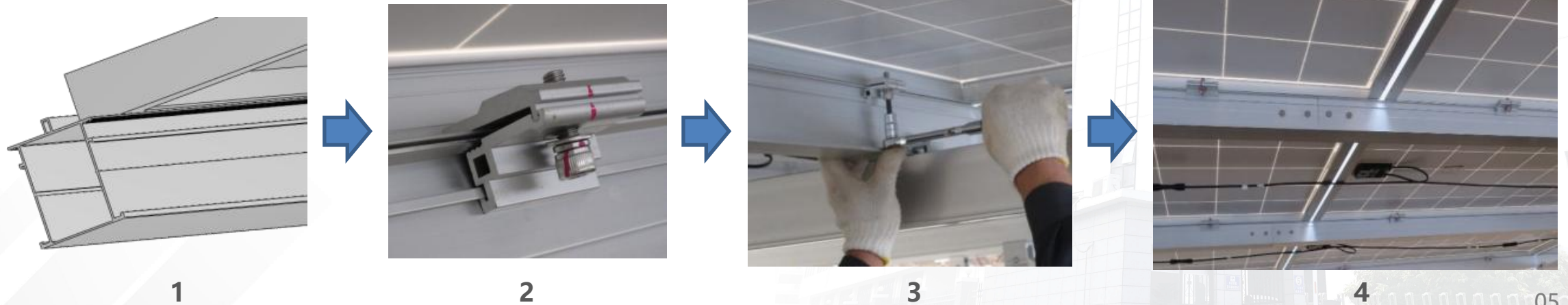


## Installation

Example: With Rail (P/N: 11-YN75)



## Installation Procedures



## Project - RC Roof - 561kW - Taiwan

### Project Name

Tainan Yulin 561kW Flat Roof PV Project

### Location

Taiwan, China

### Installed Capacity

561kW

### Racking System Type

Rooftop Aluminum Brackets

### COD / Status

2022

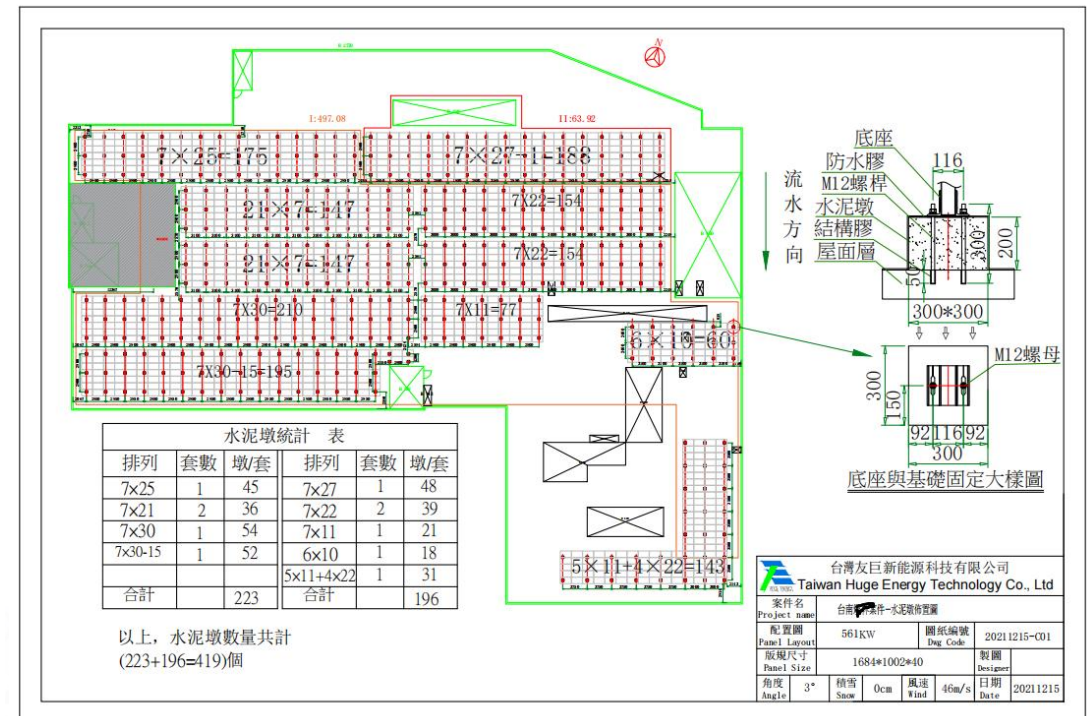
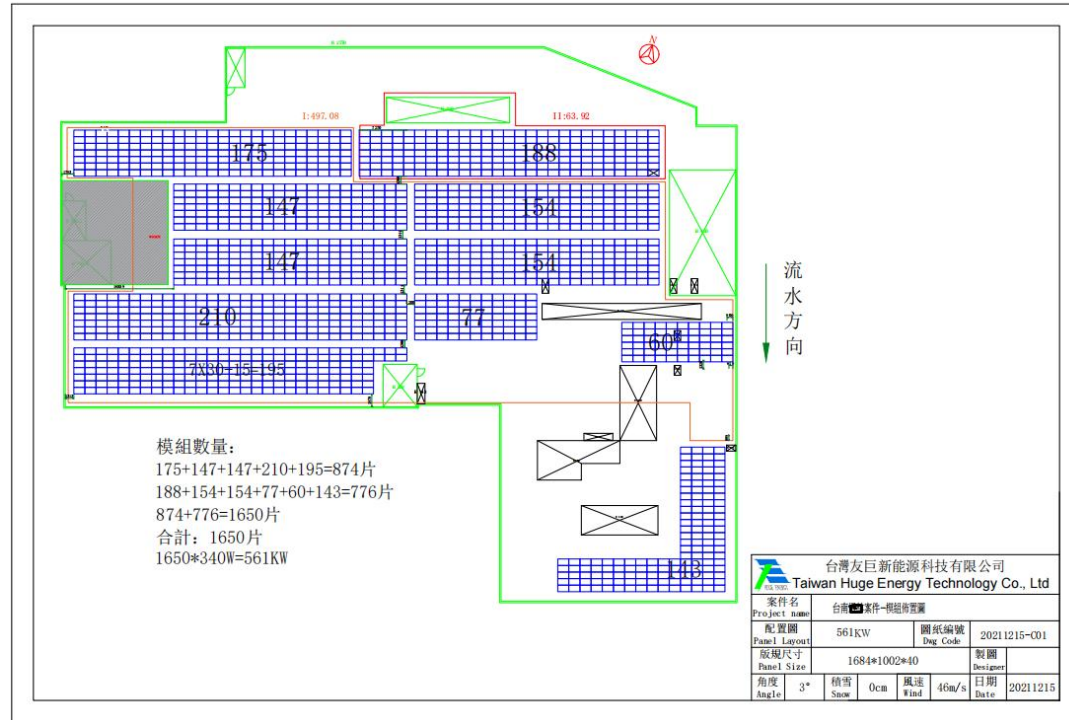
### Features

1. Back Clamp Solution
2. Waterproof Structure Design



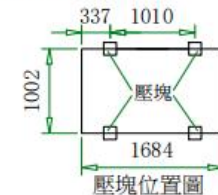
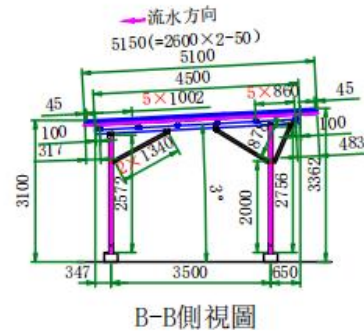
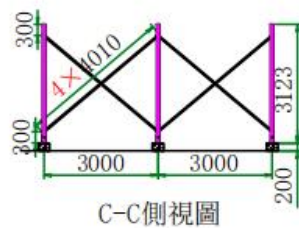
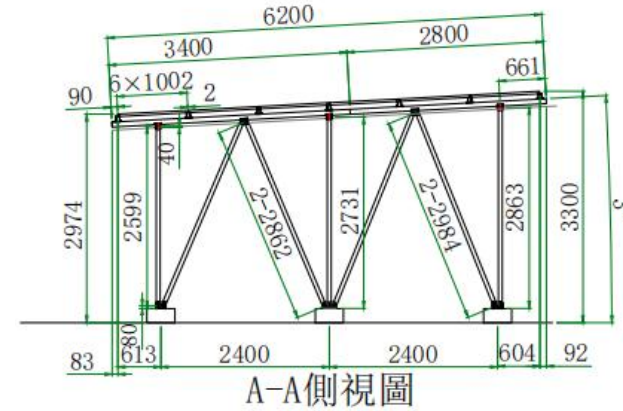
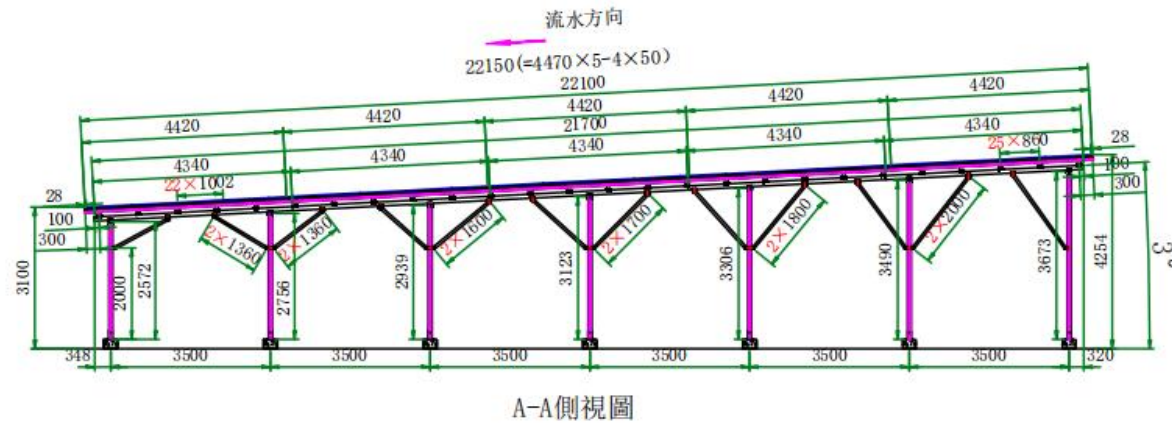


## Project - RC Roof - 561kW - Taiwan





# Project - RC Roof - 561kW - Taiwan



# Thank you!

