

BALCONY BRACKET SET FOR BALCONY POWER PLANT

Article-No.: 23198

- ASSEMBLY- AND USER MANUARL -



Installation-videos and further instructions for our products can be found on the respective page of our website

Further products for your office, house and garden can be found on www.jet-line.de

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PRODUCT-INTRODUCTION

The balcony guardrail photovoltaic system has a unique installation method. The adjustable rod can meet various angle adjustments. The specific assembly bracket not only ensures the overall stability of the system, but also improves the convenience of installation. High-quality design components and a small number of accessories make it an efficient solution for small projects.

Before installation, please read the entire manual carefully!



PART-LIST

No.	Drawing	Description	Qty.
А		Inner Tube	2
В		Outer Tube	2
С	11	Base	2
D		Fixer	2
E		Hook	2
F		Rail	2
G		Adjustable foot pre-assembled from A, B, C, D	2
Н		Bracket-Set pre-assembled	2
ı		Fixer Set pre-assembled	4



REQUIRED TOOLS AND ACCESSORIES

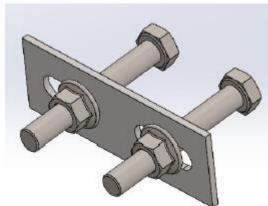
No.	Drawing	Description
А		Allen Wrench 6 mm
В		Electrical Tool
С	C ZB 1	Tape Measure
D		Marker Pen
E		Torque Wrench
F		String
G	Gar.	Adjustable Wrench
н		Socket Wrench M10/M8



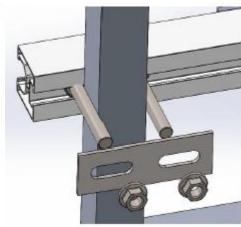
ASSEMBLY INSTRUCTION

STEP 1

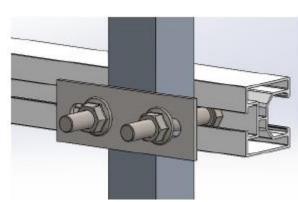
Installation of the rails (F)



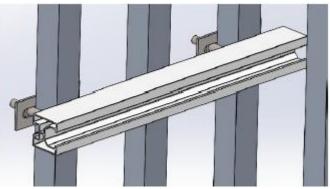
Remove the nut from the bolt in the Fixer-Set (I)



Slide the bolt heads into the groove of the cross-bar (F); with one bolt on each side of the chosen balcony strut



Put the mountingplate back on and tighten the nuts



Use two Fixer Sets (I) as picutured abofe to install the Rail (F)

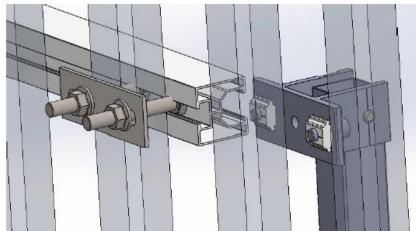


Install the second Rail (F) in exactly the same way as described above

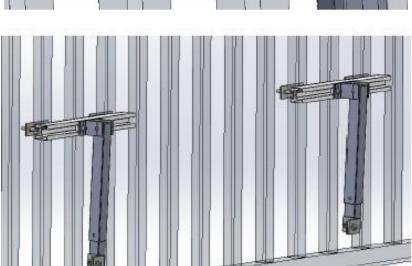


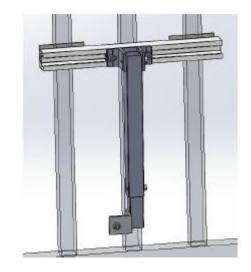
STEP 2

Installation of the adjustable feet (G)



Align the T-shaped block on the base with the opening slot oft he beam and slide it into lock

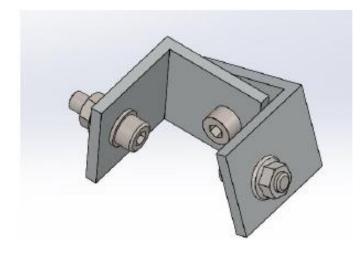


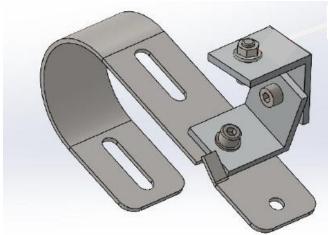


Repeat the abovedescribed step with the second Rail (F)

STEP 3

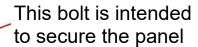
Installation of the hook (E) on the panel

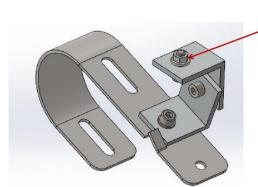


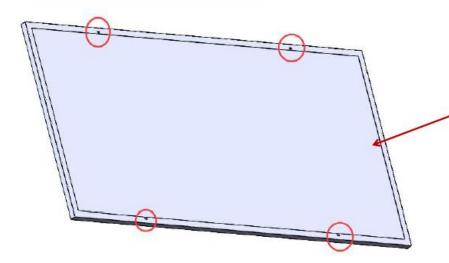


First install the pre-assembled L-angled Bracket-Set (H) on the hook (E) as shown in the picture above

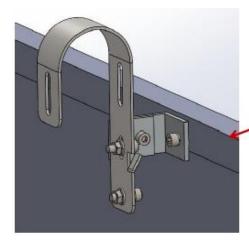






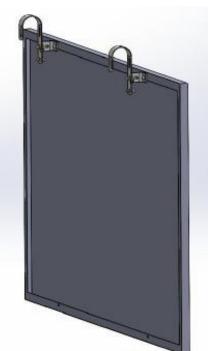


The bolt (see above) goes in the solar panels back keyholes



Solar Panel

The upper end of the panel is installed as shown in the pictures and fixed with the back lock plate



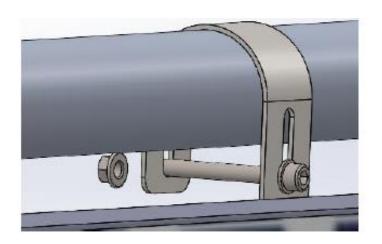


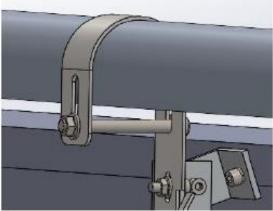


Attachment to the balcony rail

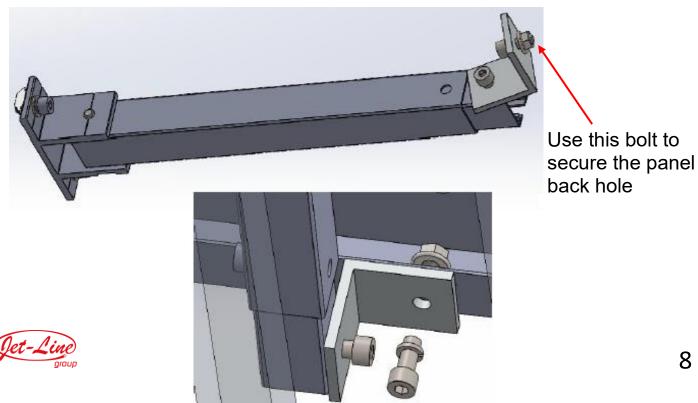


The upper end is fixed with a M12x100 bolt combination





The lower end is fixed with adjustable feet





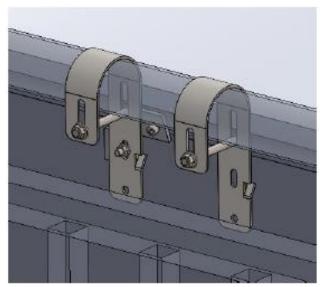
Adjust the length oft he adjustable feet according to the requested angle you want to set



STEP 5

Installation of the inverter

If you plant comes with an inverter, you need to install an aditional hook (if not, this step can be left out)

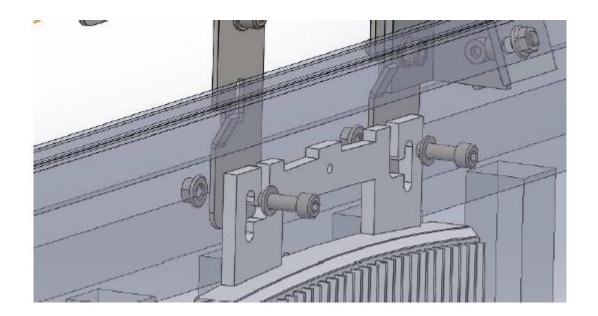


Use two sets of M8x25 bolts to fix the inverter

See additional drawing on the next page

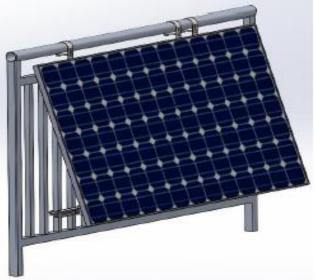






FINISHING INSTALLATION







INSTALLATION PRECAUTION NOTE

Notes on engineering installation dimensions

The specific dimensions involved in the engineering installation shall be subject to the engineering construction drawings. These installation instructions are for the purpose of illustrating how to install the product only.

Precautions when installing stainless steel fasteners

Due tot he good ductability of stainless steel, it is essentially different from carbon steel; improper use will cuase the bolt and nut tob e unable to unscrew after they are mated. To avoid this so called "Deadlock" please consider the following important aspects:

Reduced coefficient of friction:

- 1. Ensure that the thread surface is clean (such as no lime sand, sundries)
- 2. It is recommended to apply water wax or add lubricant (such as butter, 40# engine oil) to the surface during installation

Correct method of operation:

- 1. It must be screwed perpendicular to the axis of the thread, and must not be inclined
- 2. During the tightening process, the applied force must be uniform, and the tightening torque must not exceed the specified safe torque value
- 3. Use torque wrench or socket wrench as much as possible, avoid using adjustable wrench or electric wrench; use electric wrench and try to lower the speed as much as possibler
- 4. Avoid using at high temperature, do not rotate quickly when using, to avoid locking caused by rapid temperature rise; (such as using an electric wrench, etc.)



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