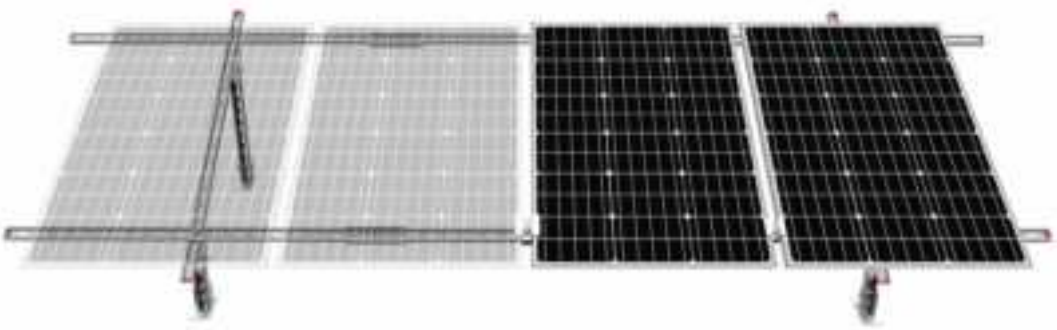
ECO-WORTHY

Adjustable Multi-Pieces Solar Panel Mounting Brackets

(USER MANUAL)



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Notice

Please wear gloves before installation to prevent hand injuries!

To avoid a shock hazard, keep the panel covered with a dark material during installation and avoid contact with the output terminals.

If the panels will be mounted on a roof, make sure the material is strong enough to provide support to the solar panel including wind loading.

To minimize wind loading effects in an RV or mobile application, place the panel's longest edge parallel with the direction of wind travel.

If you want to place the bracket on the ground, please choose a flat, hard surface, use self-tapping screws for installation with the plane, or choose a heavy thing to press the bracket.

Components&Accessories

(Some components already pre-installed)

Image	Specification	Model	Quantity
	41mm bracket with perforation	base	4
	Triangle joint	joint	4
	panel clamp +45mm M8 screw + 6mm M8 nut	35mm two-head panel clamp	6

	panel clamp + 25mm M8 screw + 6mm M8 nut	35mm side panel clamp	4
	20mm M8 hexagonal screw + M8 flange nut + 2*pads	short bolt	24
	60mm M10 hexagonal screw + M10 flange nut	long bolt	12
	20mm M8 hexagonal screw + 6mm M8 flange nut + 1*pad	inside bolt	4
	41*41*1.2*200mm steel with perforation	c-shape steel	2
	41*41*1.2*600mm steel with perforation	c-shape steel	2
	41*41*1.2*1000mm steel with perforation	c-shape steel	6
	41*21*1.2*1000mm steel with perforation	c-shape steel	2
	41*21mm cap	top cap	8
	80mm M10 expanding screw	expanding screw	8
	40*20*1.4mm connec-tor	inside connector	4

Installation

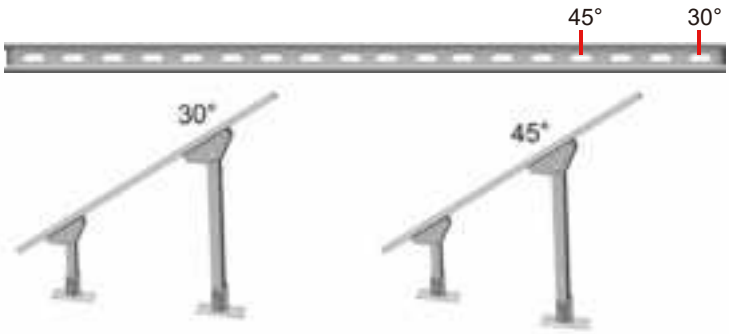
Step.1 Set the four feet

Put those four base feet on the ground or surface where you want to install the brackets.

Step.2 Mount the vertical rods

Use screws to fix the two vertical rods on the feet, and it's able to set the angel degree as 30, 35, 40, 45 by diverse the back foot holes, the order be, top hole-30, second-35, third-40, fourth-45. You could choose the proper angle according to your location and latitude, E.g. If you live in California, set the vertical rods at 35°hole. So that the panels can get the maximum solar irradiance.

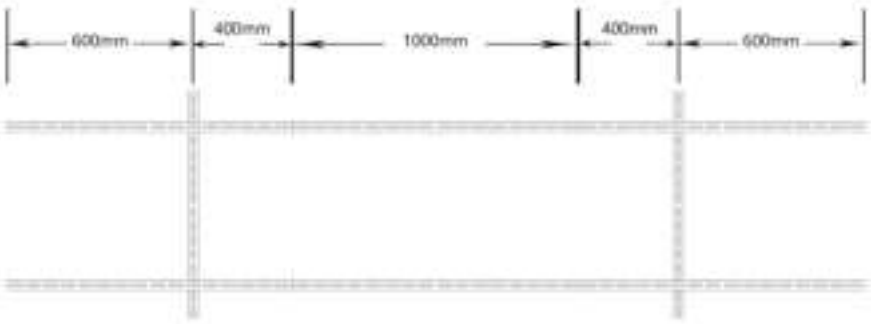
Note: The fixing position of the front foot should be at the second hole of the rod.



Step.3 Connect horizontal rods

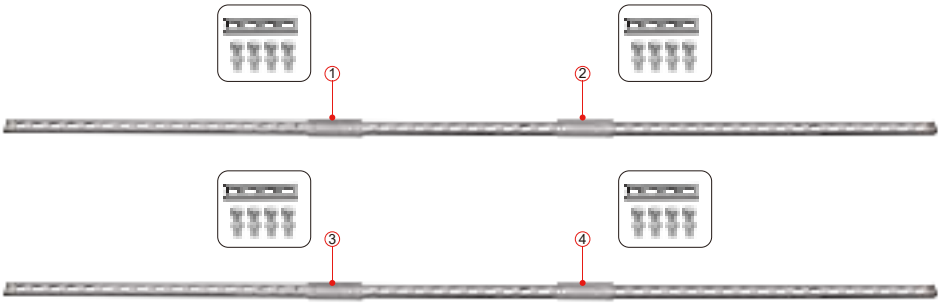
There are 4*inside connectors, and 6 rest 1000mm C-shape steel rods.

·First, hook up 4 rods on the vertical rods with the 20mm M8 hexagonal screw, put each one C-shape rod on each connecting point of vertical rods.

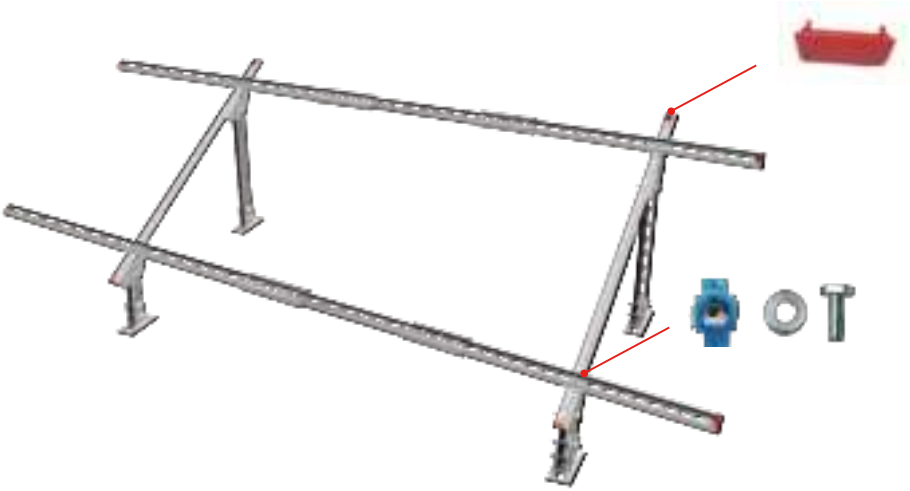


·Then, use the inside connectors to fix the inside side of those installed horizontal rods, use 2 of 20mm M8 hexagonal screw for each rod's installation.

·In the end, put the rest 2 rods on in the middle, so the both sides will be connecting with the inside connectors.



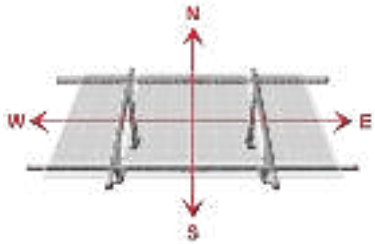
·Use top cap to install on sides of rods to prevent scratches



Step.4 Drill the feet into the surface

When all rods get mounted, place the position on ground or flat surface that needs to be fixed and make a hole mark for the base feet fixing. In case of heavy wind or storm, If there is no solid surface, you can place a cement block for the drilling, or just put some heavy stuff to cover the feet.

Remember to put the brackets towards the south side, it's the best direction to absorb the sunlight in the north hemisphere.



Then use an impact drill to drill a hole with a diameter of 12mm and a depth of 55mm in the marked position. After drilling the hole, use the M10x80 expansion screw to fix the feet firmly.

Make sure all screws tied before put on the panels, you can check it with the wrench.

Step.5 Mount panels and clamps

Put the panels on the two horizontal rods, mount the clamps into the rods' rail, and use the Y-shape sleeve to tie the screws on the clamp, so it'll press the panels on the rods. Two-head clamp be put in between two panels, and side clamp to hold one panel's side.