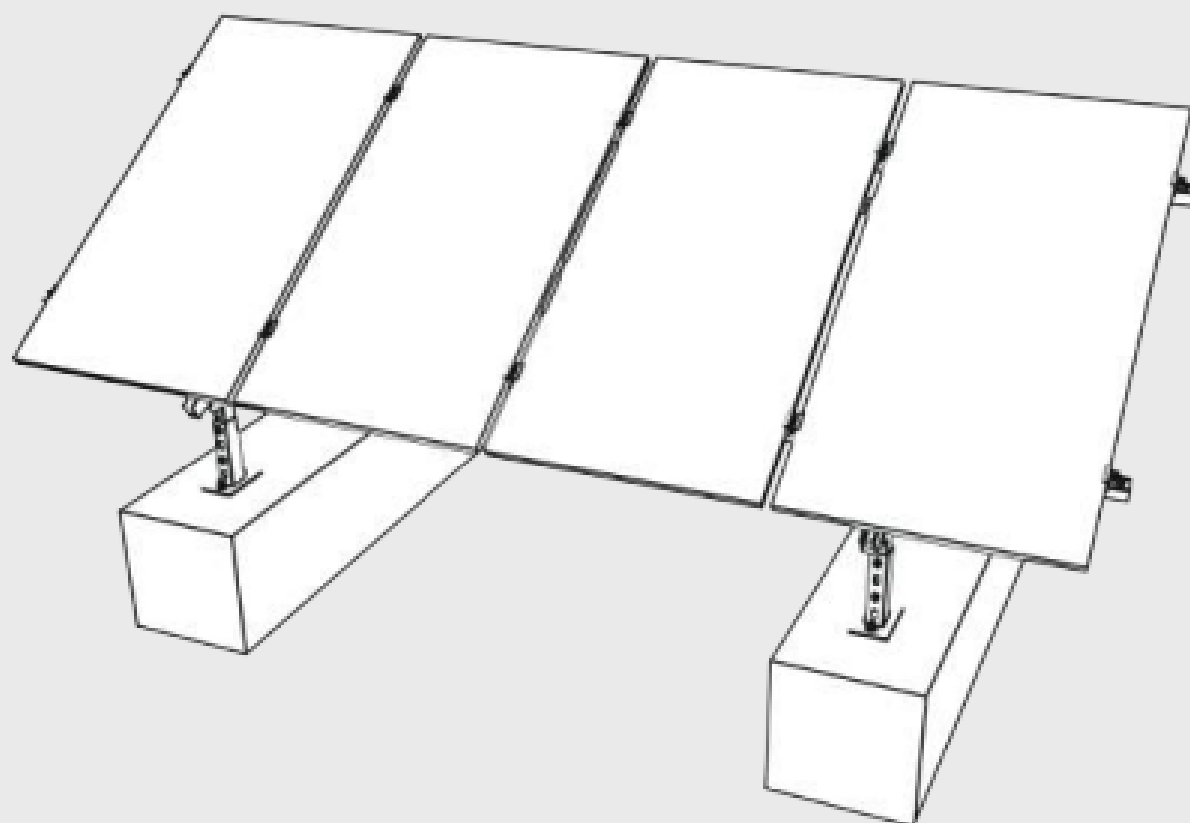


User Manual





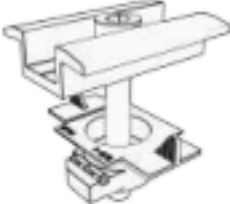







Solar Ground Mount

02	IMPORTANT TOOLS
03	INSTALLATION RULE
03	NOTICE
04	COMPONENTS
10	INSTALLATION STEPS



THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS FOR SOLAR GROUND MOUNT. PLEASE READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.

IMPORTANT TOOLS

 <input type="checkbox"/> Tape Measure		 <input type="checkbox"/> Chalk Line	 <input type="checkbox"/> Labor Protection Products
 End Clamp	 Mid Clamp	  <input type="checkbox"/> Allen key	
 Support Rack		  <input type="checkbox"/> Open-end Spanner	
 U Rail Splice Kit	 U Rail		

INSTALLATION RULE

Installation of the framing shall conform to relevant local government standards, manufacturer's specifications and good building practice. The roof to which the panels are to be installed shall conform to the relevant local government standards.

- Follow the risk management process prior to commencing work—that is, identify all the hazards, assess their risks and eliminate or control them.
- Consult with those involved in the work.
- Develop safe work procedures for installing solar panels, using information from the risk management process, which would include reviewing the following information:
 - 1) Provide appropriate information and training to anyone involved in performing the work.
 - 2) Provide appropriate tools and personal protective equipment (PPE).
 - 3) Ensure that a system is in place to prevent or arrest falls.
 - 4) Ensure there are adequate first aid facilities.
 - 5) Ensure all employees are aware of the emergency procedures.

NOTICE

1. Determine the installation distance between legs.

1) Factors affect the distance

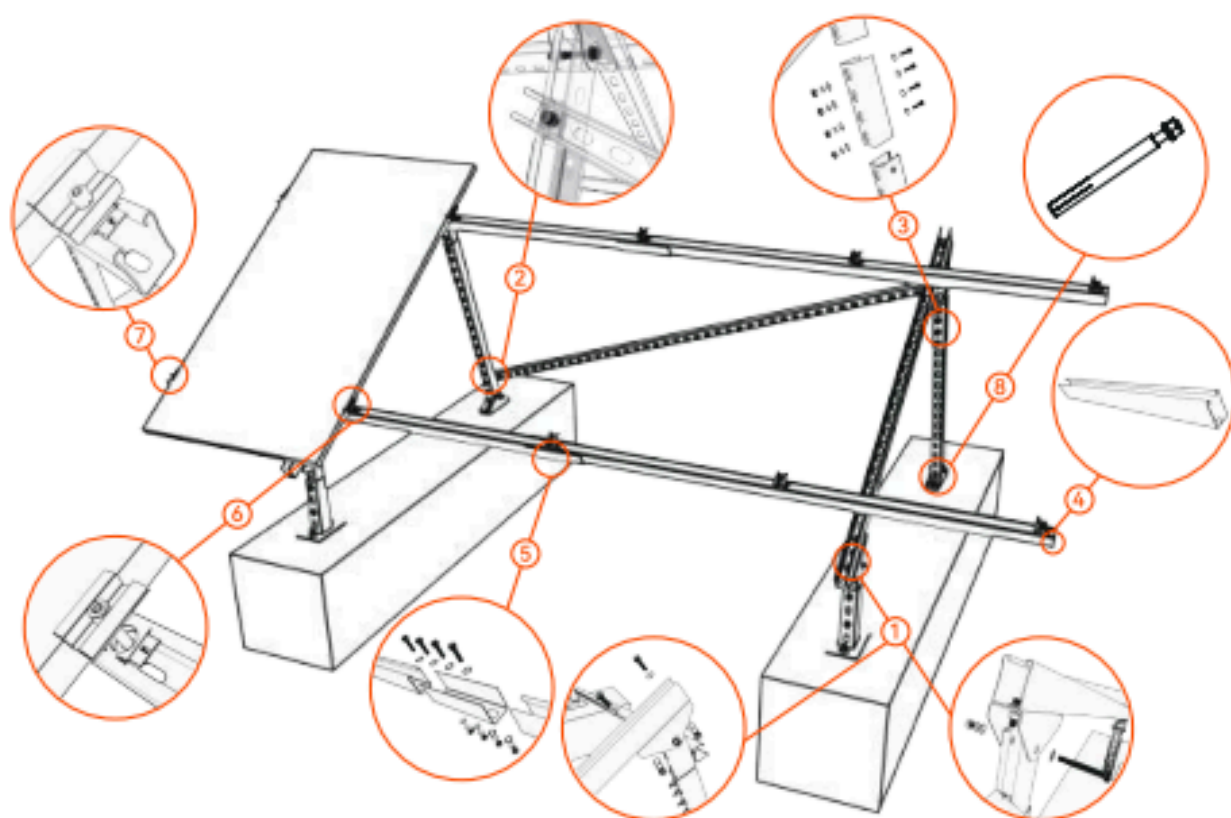
- Solar panel dimension
- The systems layout
- Angle between solar panel and ground
- Max wind speed in installation site
- Max snow in installation site
- Earthquake magnitude in installation site

2) RICH SOLAR technology team could design the distance base on above factors and make the technology drawing to show the distance between legs.


3) When you have project, please offer above factors for our engineer to design the distance.

2. Please refer our technology drawing and below installation step to install the mounting system.




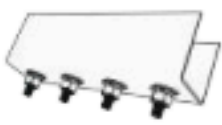
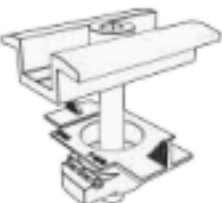


COMPONENTS



RS-GM01






No	Picture	Part No.	Part name	Part qty Each pc	Part qty Each set
1		1.01	Beam 950mm	1	2
		1.02	Front leg 300mm	1	
		1.03	Rear Leg 250mm	1	
		1.04	Rear Leg 750mm	1	
		1.05	U62 rear leg splice kit	1	
		1.06	adapter	3	
		1.07	Base rear foot	1	
		1.08	Hex bolt M10*30*1	10	
		1.09	Flat washer M10*2	20	
		1.1	Spring washer M10*1	10	
		1.11	Hex nut M10*1	10	
		1.12	Hex bolt M10*70*1	3	
		1.13	Flat washer M10*2	6	
		1.14	Spring washer M10*1	3	
		1.15	Hex nut M10*1	3	

COMPONENTS

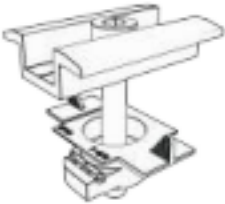


No	Picture	Part No.	Part name	Part qty Each pc	Part qty Each set
2		2.01	U41 Strengthen pile	1	1
		2.02	M10 Plastic steel nut	2	
		2.03	Flat washer M10*1	2	
		2.04	Spring washer M10*1	2	
		2.05	Hex nut M10*30*1	2	
3		3.01	Hex bolt M10*30*1	1	4
		3.02	Flat washer M10*1	1	
		3.03	Spring washer M10*1	1	
		3.04	M10 Plastic steel nut	1	
4		4.01	U62 Rail 1500mm	1	4
5		5.01	U62 rail splice kit	1	2
		5.02	Hex bolt M10*30*4	4	
		5.03	Spring washer M10*4	4	
		5.04	Flat washer M10*8	8	
		5.05	Hex nut M10*4	4	
6		6.01	U-mid clamp	1	6
		6.02	M8 nut	1	
		6.03	hex bolt M8*45*1	1	
		6.04	Spring washer M8	1	
		6.05	Ground clip	1	
7		7.01	U-end clamp	1	4
		7.02	hex bolt M8*35*1	1	
		7.03	M8 nut	1	
		7.04	Spring washer M8	1	
8		8.01	expand bolt M12*150mm	1	8

COMPONENTS

RS-GM02






No	Picture	Part No.	Part name	Part qty Each pc	Part qty Each set
1		1.01	Beam 1400mm	1	2
		1.02	Front leg 300mm	1	
		1.03	Rear Leg 250mm	2	
		1.04	Rear Leg 750mm	1	
		1.05	U62 rear leg splice kit	2	
		1.06	adapter	3	
		1.07	Base rear foot	1	
		1.08	Hex bolt M10*30*1	14	
		1.09	Flat washer M10*2	28	
		1.1	Spring washer M10*1	14	
		1.11	Hex nut M10*1	14	
		1.12	Hex bolt M10*70*1	3	
		1.13	Flat washer M10*2	6	
		1.14	Spring washer M10*1	3	
		1.15	Hex nut M10*1	3	
2		2.01	U41 Strengthen pile	1	1
		2.02	M10 Plastic steel nut	2	
		2.03	Flat washer M10*1	2	
		2.04	Spring washer M10*1	2	
		2.05	Hex nut M10*30*1	2	
3		3.01	Hex bolt M10*30*1	1	4
		3.02	Flat washer M10*1	1	
		3.03	Spring washer M10*1	1	
		3.04	M10 Plastic steel nut	1	
4		4.01	U62 Rail 1100mm	1	6
5		5.01	U62 rail splice kit	1	4
		5.02	Hex bolt M10*30*4	4	
		5.03	Spring washer M10*4	4	
		5.04	Flat washer M10*8	8	
		5.05	Hex nut M10*4	4	

COMPONENTS

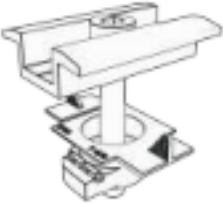


No	Picture	Part No.	Part name	Part qty Each pc	Part qty Each set
6		6.01	U-mid clamp	1	6
		6.02	M8 nut	1	
		6.03	hex bolt M8*45*1	1	
		6.04	Spring washer M8	1	
		6.05	Ground clip	1	
7		7.01	U-end clamp	1	4
		7.02	hex bolt M8*35*1	1	
		7.03	M8 nut	1	
		7.04	Spring washer M8	1	
8		8.01	expand bolt M12*150mm	1	8

COMPONENTS

RS-GM03

No	Picture	Part No.	Part name	Part qty Each pc	Part qty Each set
1		1.01	Beam 1600mm	1	3
		1.02	Front leg 300mm	1	
		1.03	Rear Leg 250mm	2	
		1.04	Rear Leg 750mm	1	
		1.05	U62 rear leg splice kit	2	
		1.06	adapter	3	
		1.07	Base rear foot	1	
		1.08	Hex bolt M10*30*1	14	
		1.09	Flat washer M10*2	28	
		1.1	Spring washer M10*1	14	
		1.11	Hex nut M10*1	14	
		1.12	Hex bolt M10*70*1	3	
		1.13	Flat washer M10*2	6	
		1.14	Spring washer M10*1	3	
		1.15	Hex nut M10*1	3	
2		2.01	U41 Strengthen pile	1	2
		2.02	M10 Plastic steel nut	2	
		2.03	Flat washer M10*1	2	
		2.04	Spring washer M10*1	2	
		2.05	Hex nut M10*30*1	2	
3		3.01	Hex bolt M10*30*1	1	6
		3.02	Flat washer M10*1	1	
		3.03	Spring washer M10*1	1	
		3.04	M10 Plastic steel nut	1	
4		4.01	U62 Rail 1600mm	1	6
5		5.01	U62 rail splice kit	1	4
		5.02	Hex bolt M10*30*4	4	
		5.03	Spring washer M10*4	4	
		5.04	Flat washer M10*8	8	
		5.05	Hex nut M10*4	4	

COMPONENTS

No	Picture	Part No.	Part name	Part qty Each pc	Part qty Each set
6		6.01	U-mid clamp	1	6
		6.02	M8 nut	1	
		6.03	hex bolt M8*45*1	1	
		6.04	Spring washer M8	1	
		6.05	Ground clip	1	
7		7.01	U-end clamp	1	4
		7.02	hex bolt M8*35*1	1	
		7.03	M8 nut	1	
		7.04	Spring washer M8	1	
8		8.01	expand bolt M12*150mm	1	12

INSTALLATION STEPS

Step 1

Insert concretes into the ground according to drawing.



1.1

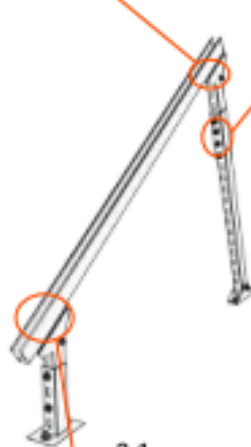


1.2

Step 2



Connect Brace and Legs by hex bolts M10*70 (2 flat washer, 1 spring washer, 1 nut) one bolts for vertical leg, two bolts for inclined leg. To make the bracket more stable, the tilt angle should be controlled within 18-45 degree.



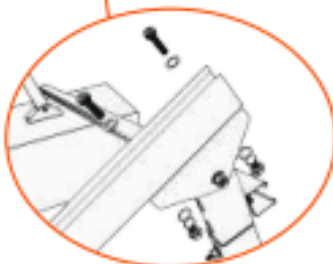
2.1



2.2

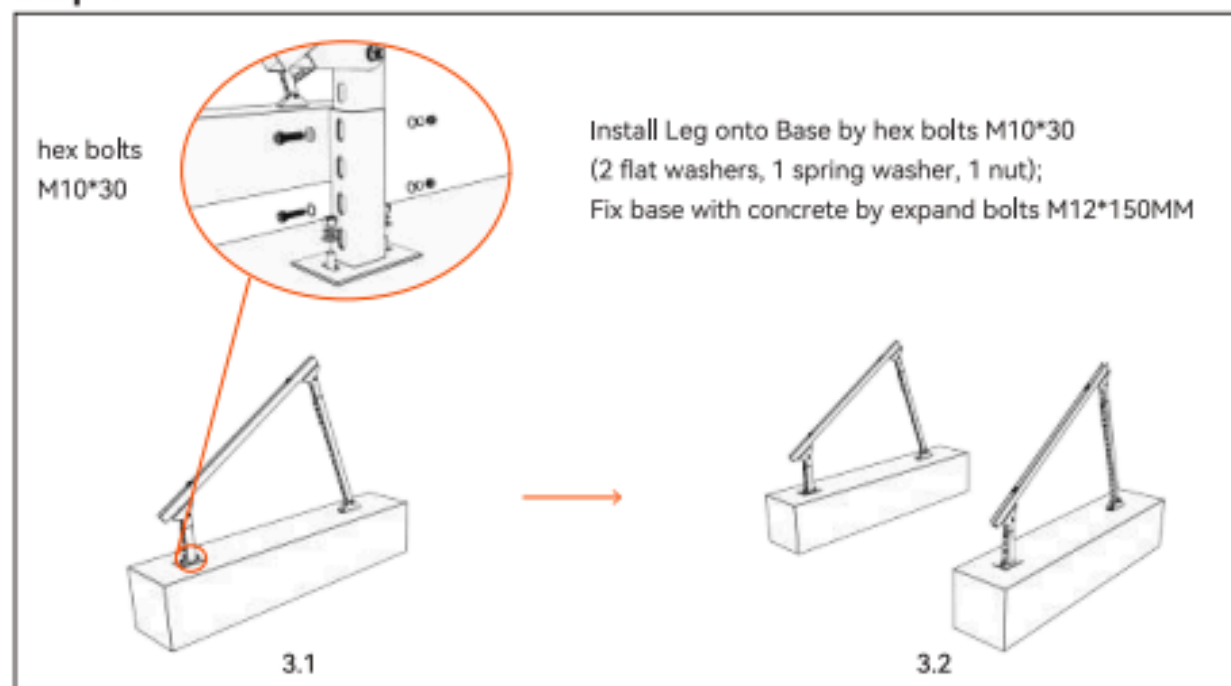
Install the beam onto front leg and rear leg by hex bolts M10*70 (2 flat washer, 1 spring washer, 1 nut).

hex bolts
M10*70

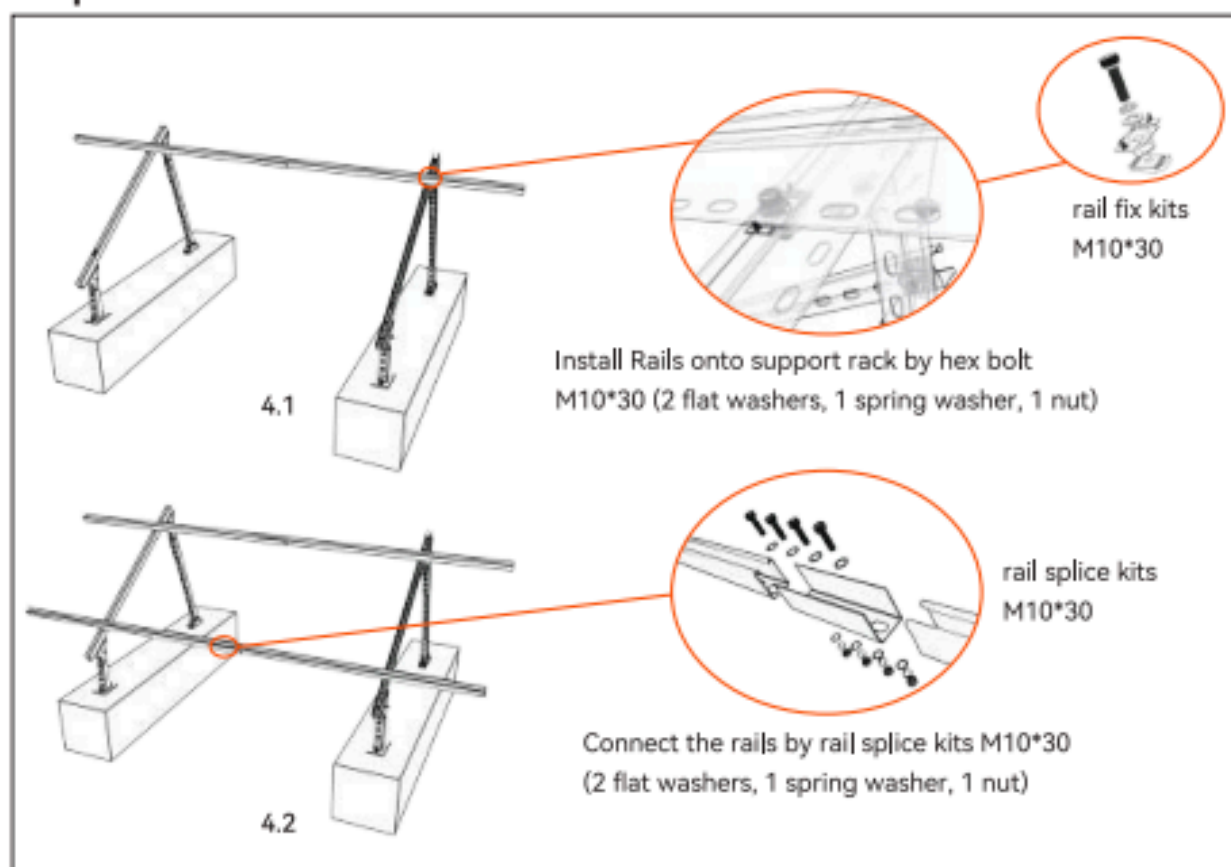


INSTALLATION STEPS

Step 3

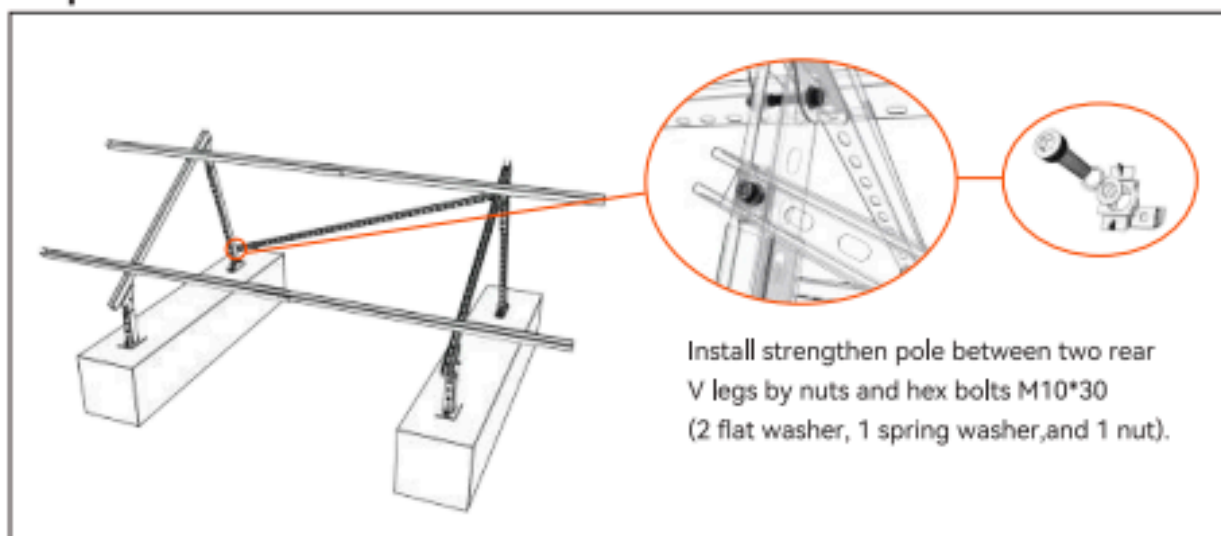


Step 4



INSTALLATION STEPS

Step 5



Step 6

