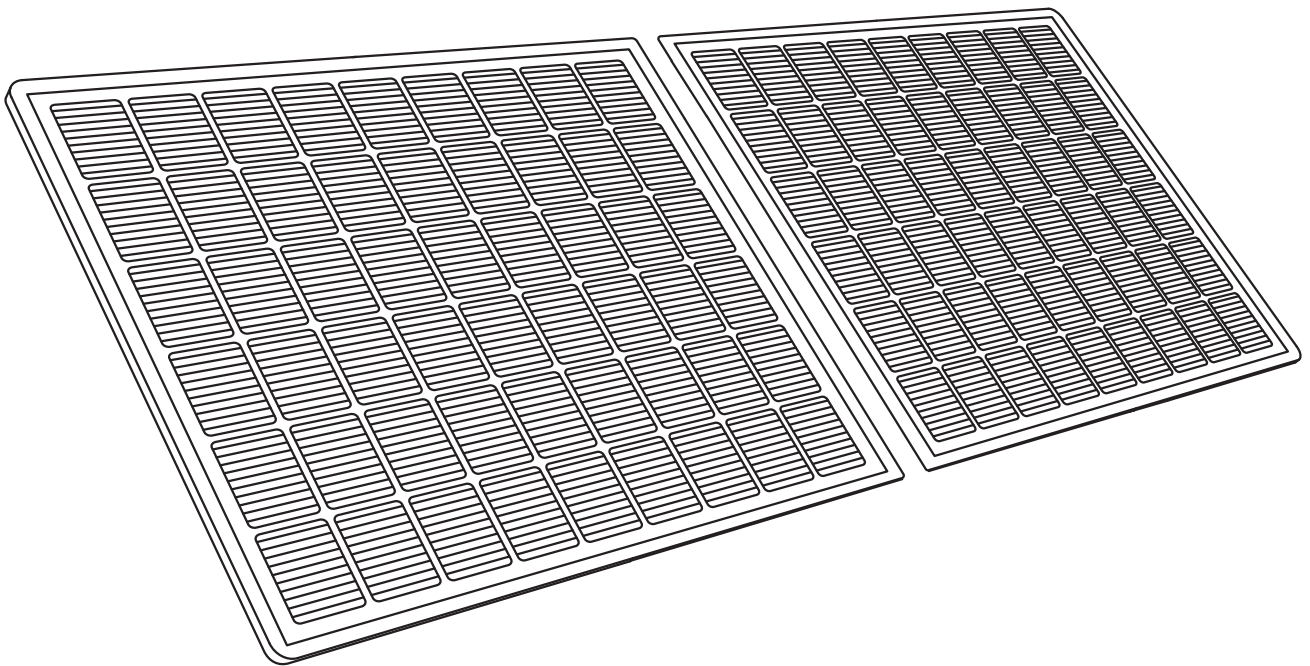


410W Rigid Solar Panel User Manual



Technical Specifications

General Information	
Rated Maximum Power (Pmax):	410W
Power Sorting:	0~5W
Voltage at Pmax (Vmp):	31.38V
Current at Pmax (Imp):	13.07A
Open-Circuit (Voc):	37.41V
Short-Circuit Current (Isc):	13.90V
PV Module Classification:	CLASS II
Max System Voltage:	1000V
Max Series Fuse Rating:	25A
Operating Temperature:	-40°C~85°C
Dimensions:	1,723×1,135×35mm
Pmax/Voc/Isc Tolerance:	±3%
Net Weight:	19kg / 42 lbs

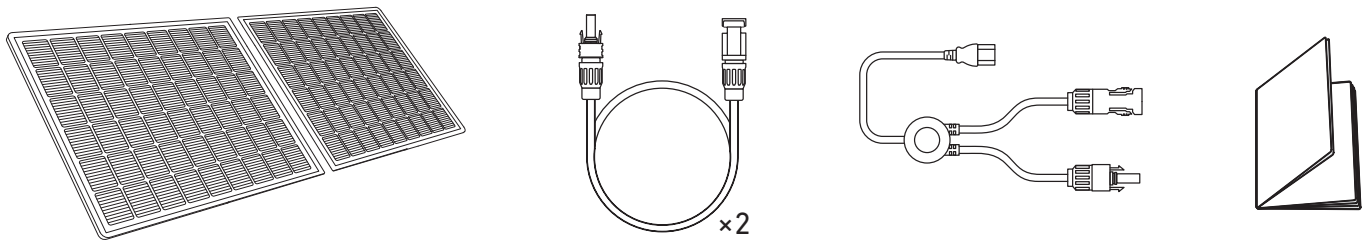
Safety Instructions

1. This solar system should be installed by a qualified solar installation company.
2. Do not disassemble the module or nameplate by yourself. Doing so may void the warranty.
3. Use installation components (including connectors, connecting cables, and brackets) provided by us. Before installation, the solar panel should be completely covered with opaque material, and the positive and negative terminals should be disconnected to prevent power generation.
4. Please carefully check whether the solar panel has broken glass or a damaged back panel. If it does, stop use or discontinue installation immediately.
5. When installing, do not wear any jewelry made of metal, and only use insulated tools approved for electrical installation.
6. When multiple solar panels are installed in series or parallel, the cross-sectional area of the cable and the capacity of the connector must be appropriate to the maximum short circuit current of the system.
7. Do not install modules near open flames or flammables and explosives. Do not install the solar power system in places where it could be immersed in water or near watering devices or sprinklers.
8. Do not let children approach the installation site or touch any electrical modules.
9. Do not step on the solar panel or any parts.
10. Do not touch the solar panel (especially the back panel) with sharp tools
11. You must comply with local and national regulations during roof and ground installations.

Important Notice

1. The module overcurrent protection rating applies to DC fuses.
2. Do not plug or unplug any system connectors while the circuit is under load.
3. Make sure the fire resistance rating of the system is up to standard, comply with local electrical safety regulations, and configure module accessories (such as fuses, circuit breakers, grounding connectors, etc.) as needed.
4. Ensure the installation area of the solar panel system is well ventilated and the connectors are clean and dry.
5. All solar system connections must be sealed to prevent moisture.
6. When installing and using the solar power system, follow the safety regulations for all other modules in the system, including connecting wires and cables, connectors, controllers, charging regulators, inverters, accumulators, and other rechargeable batteries.
7. Do not apply any substance that may block light (such as paint, adhesive, etc.) on the lightreceiving surface of the solar panel.
8. Do not directly irradiate the surface of the module with artificially amplified sunlight.
9. Do not put heavy objects on the solar panel during use to avoid damage to the panel.

What is in the Box



- 2× 410W Rigid Solar Panels
- 2× MC4 Cables Sets
- MC4 to XT-60 Cable
- User Manual

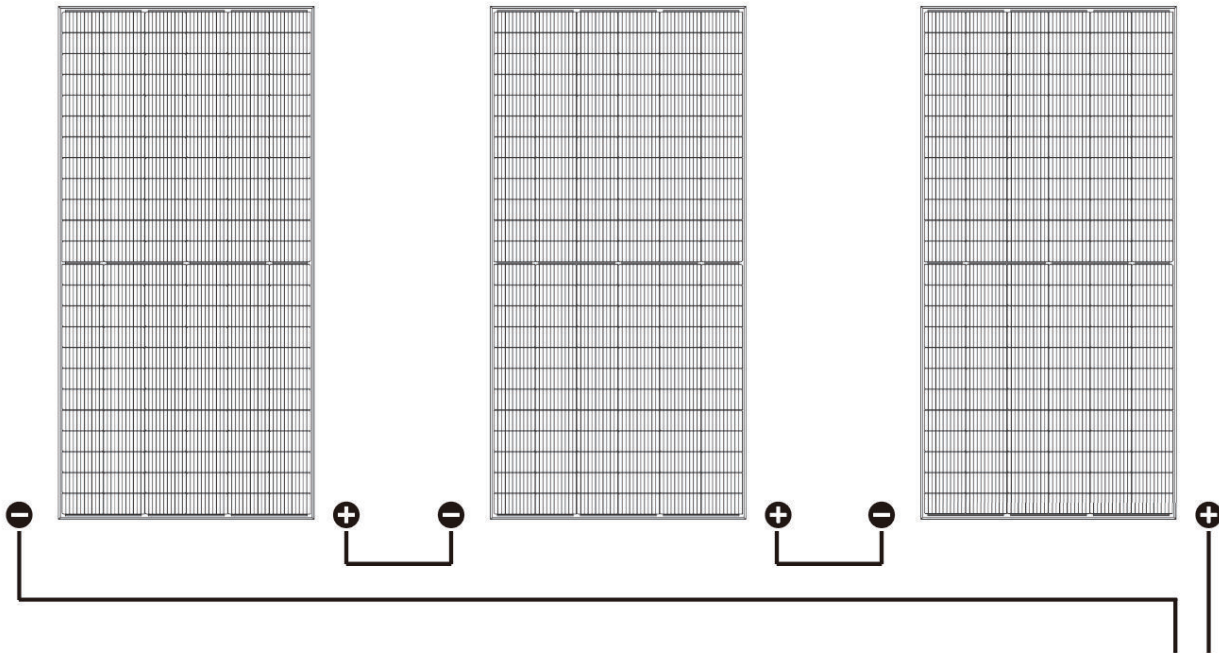
How to Connect Multiple Solar Panels

Warning:

- Check the input voltage of the device you are connecting with before the connection.
- Please make sure the output voltage of the solar panels does not exceed the input voltage of the device when connected in series.

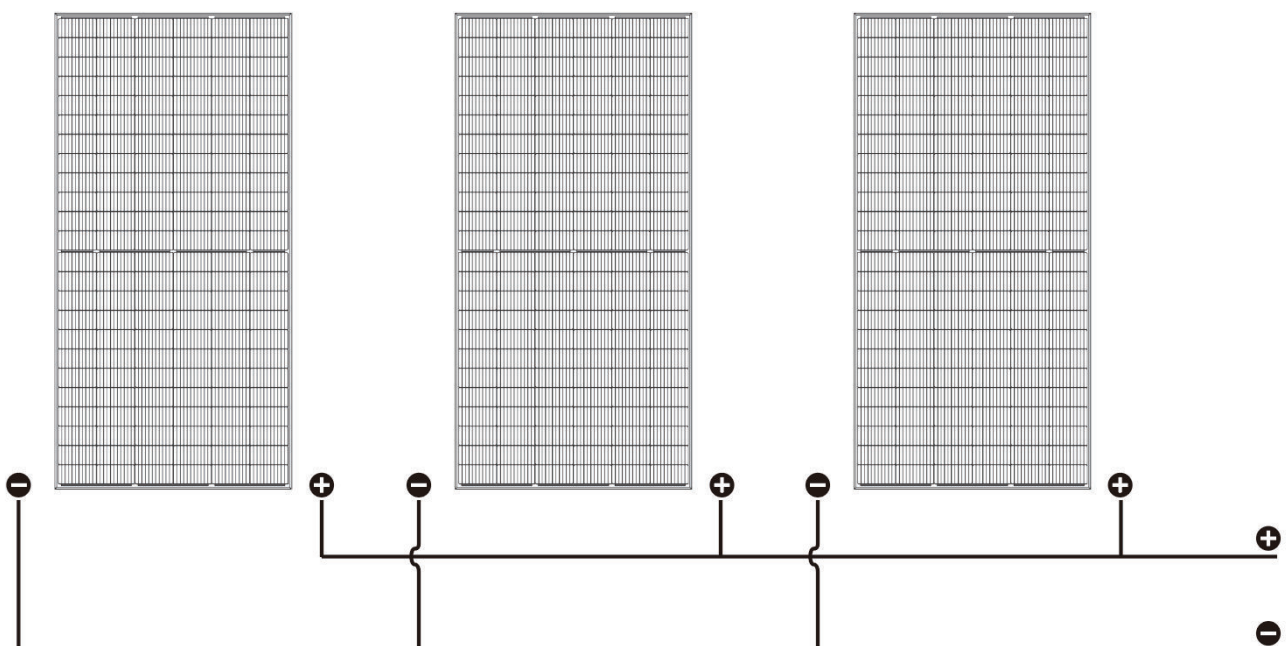
Series Connection

For a series connection, connect the positive pole of the first module to the negative pole of the second module.



Parallel Connection

For parallel connection, please connect the positive and negative cables of the first module and second module respectively.

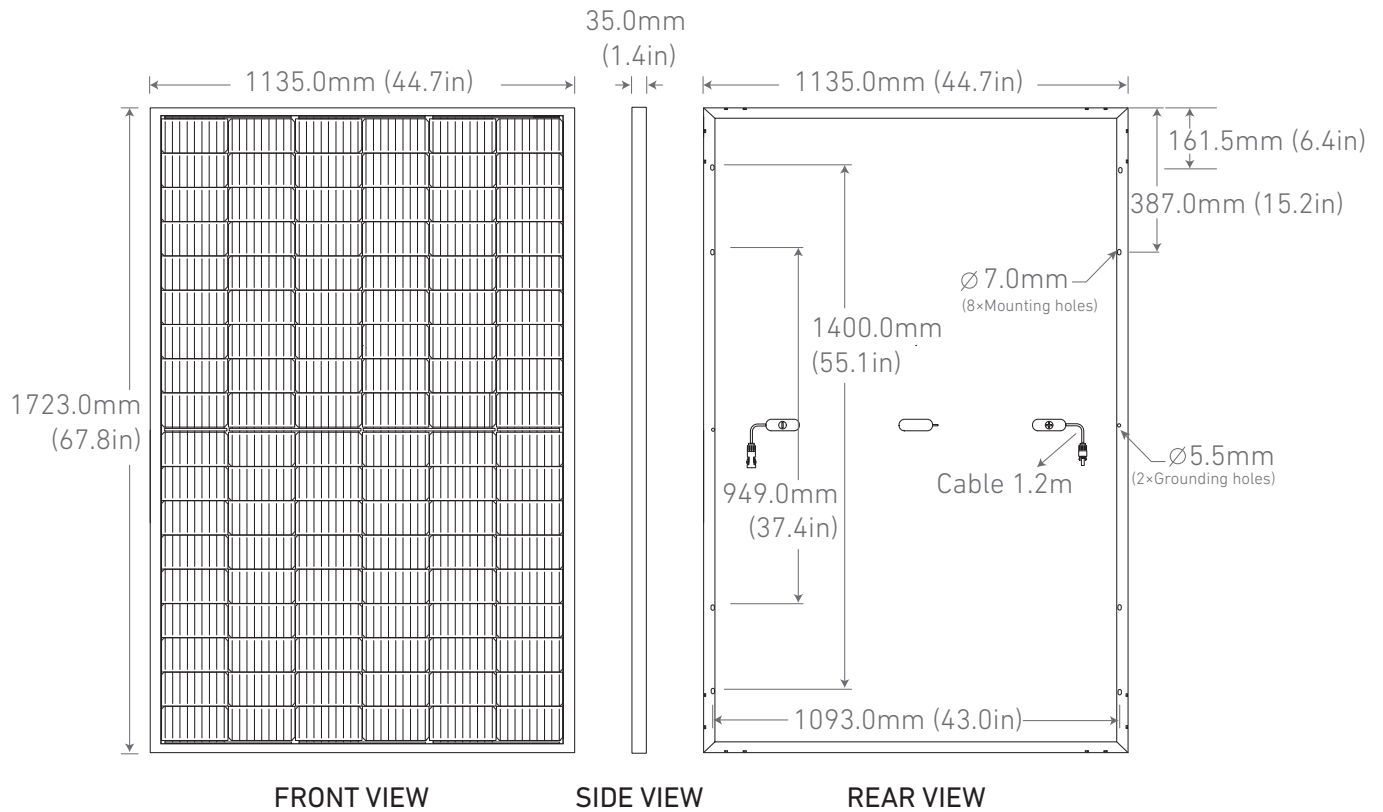


How to Use Mounting Hole

When installing the bracket, make sure to use the mounting holes reserved for the solar panel.

Do not modify the module frame without permission, otherwise this may void the warranty.

Specific location as shown below:



Installation Steps

Important Information

Note: Make sure the bracket's width is at least 45 inches.

1. The installation methods listed in this manual are for reference only. For specific installation steps, please purchase the appropriate kit and refer to its manual.
2. The installation tilt angle of the solar panel should be kept above 10° to prevent dust accumulation and module damage and enhance its performance. If the tilt angle is lower than 10°, increase the frequency of cleaning.
3. While installing the solar power system, we recommend installing solar panels with similar appearance and color together.
4. The gap between two adjacent solar panels should be at least 20mm. The minimum distance between the frame of a single solar panel and the installation plane should be 40mm.
5. When designing the solar power system, ensure the solar panels can withstand its maximum intended load and additional forces from support structure expansion due to temperature changes. The installation company is responsible for designing the specific installation layout.



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