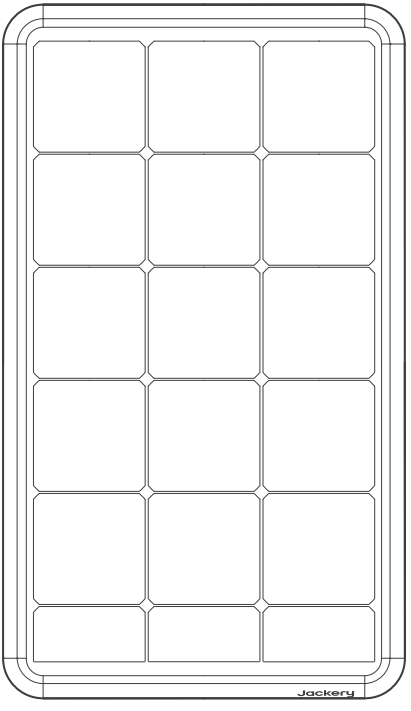
Jackery



Jackery SolarSaga 100 Prime Installation Guide

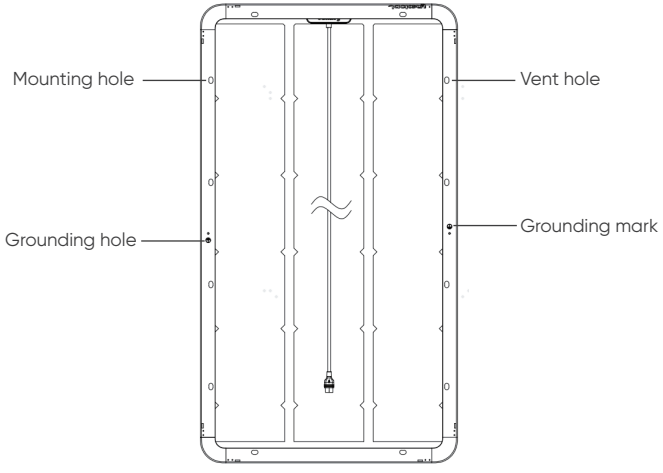
Version: JAK-UM-V1.0

1.1 WARNING

*The following installation method is for reference only. The installers are required to follow all installation guidelines.

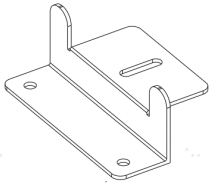
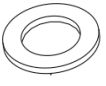
*Make sure that the solar panels are securely mounted to withstand all expected loads, such as wind loads and snow loads. A minimum gap of at least 0.25 in (6.5 mm) is required between solar panels to allow for thermal expansion distance of the frame.

*The solar panels must be mounted using the pre-drilled holes on the frame as mounting holes (length * width: 14 mm x 9 mm). The most common installation method is using four symmetric points near the inner side of the frame. Please refer to the following figure:



1.2 INSTALLATION

Jackery Z Bracket Kit is required for installation, including: 4 Z-shaped brackets, 4 M6 hex bolts, 4 M6 flat washers, 4 M6 elastic washers, 4 M6 nylon anti-loosening flange nuts, and 8 M5.5 hex flange self-tapping screws with adhesive.

		
Z-shaped brackets × 4	Hex bolts × 4	M6 flat washers × 4

		
M6 elastic washers × 4	M5.5 hex flange self-tapping screws with adhesive × 8	M6 nylon anti-loosening flange nuts × 4

*Use stainless steel as corrosion-resistant fastening material.

*Do not drill holes or modify the frame, as this will void the warranty.

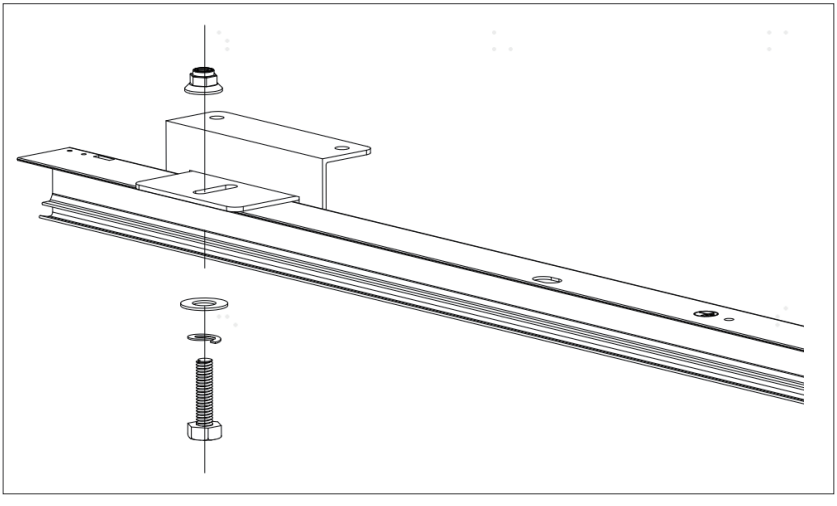
*Each solar panel must be fixed with at least 2 anchor points on each side. The number of installation bolts used is at the discretion of the professional installer.

*Installation must be done with M6 stainless steel bolts, nuts and washers using the mounting holes located on the back side of the solar panel.

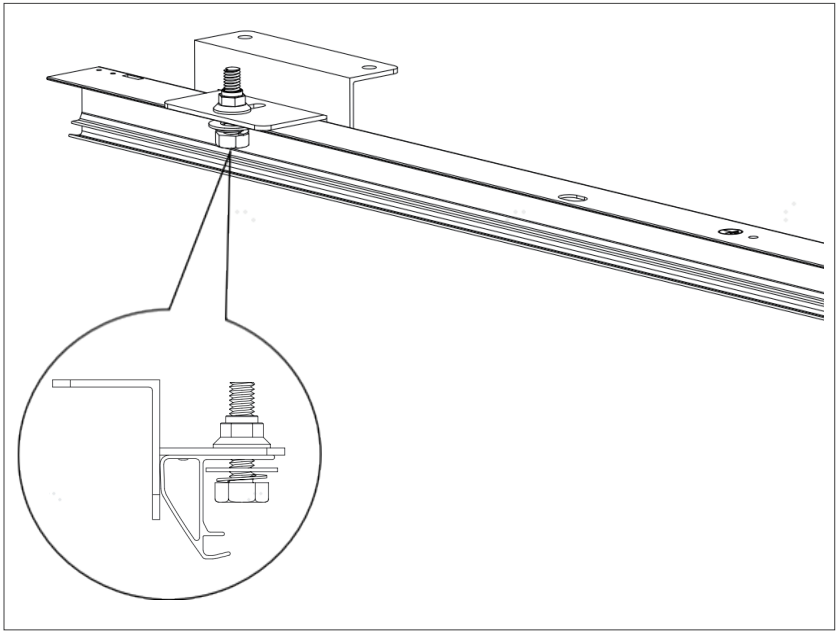
*When installing on the roof or body of the vehicle, note that there must be a gap between the solar panel and the vehicle surface to facilitate air circulation and heat dissipation.

STEP-BY-STEP INSTALLATION GUIDE

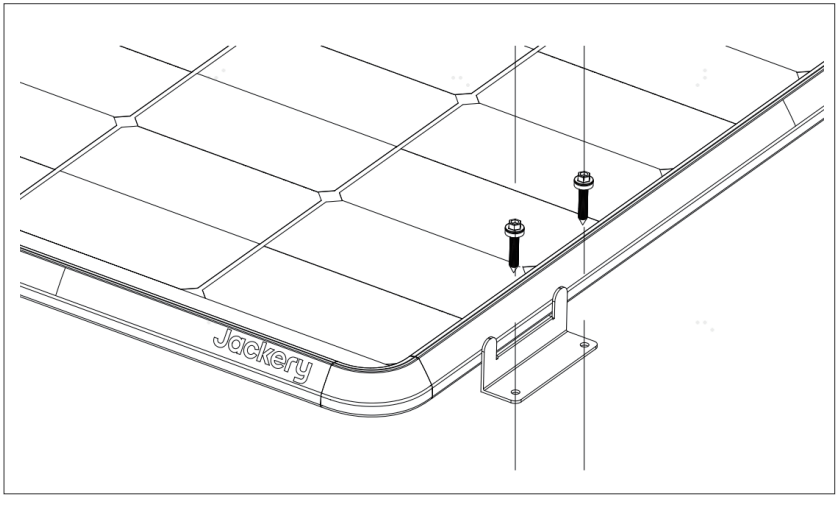
1. Place the Z-shaped bracket in the corresponding position of the pre-drilled hole on the solar panel, and install the hex bolt (M6), flat washer (M6), and elastic washer (M6).



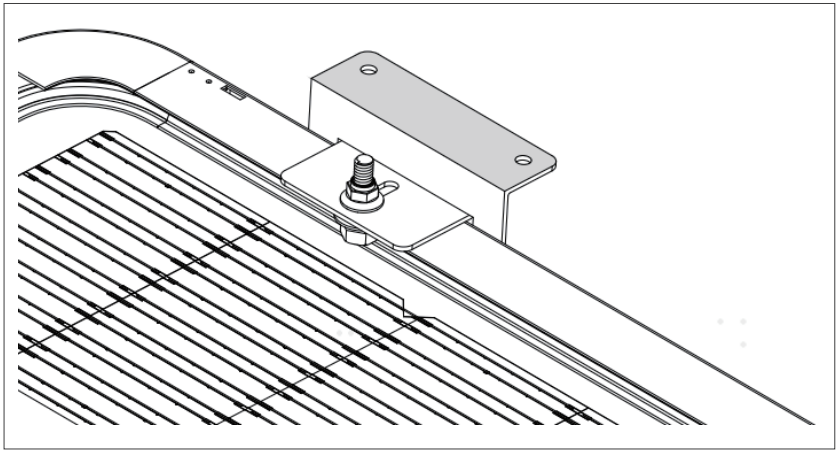
2. Tighten the nuts.



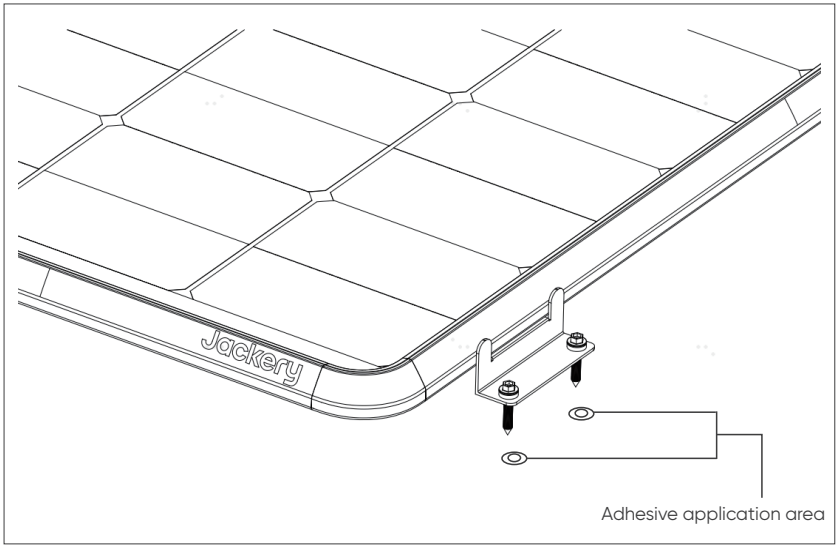
3. Place the solar panel with the installed Z-shaped bracket in the prepared installation position on the roof, and drill holes in the corresponding Z-shaped bracket base on the roof.



4. Apply structural adhesive evenly to the bottom of the Z-shaped bracket (as shown in the selected area in the following figure).



5. Clean the holes, and apply structural adhesive evenly around the holes.



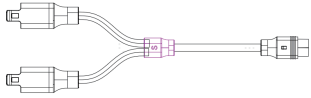
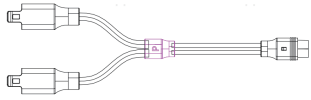
6.After aligning the Z-shaped bracket base of the solar panel with the roof hole, install the hex flange self-tapping screws, leave them stand for 24 hours, and wait for the structural adhesive to cure (ambient temperature ≤ 30 ℃, humidity ≤ 70%RH).

7. Once the structural adhesive is cured, clean the residue on the base and roof.

1.3 TECHNICAL REQUIREMENTS FOR ELECTRICAL CONNECTION

When it is necessary to increase the system voltage or current, the Jackery Anderson Y Parallel Connector and Jackery Anderson Y Series Connector can be used for connection. Make sure to connect the male head of the solar panel end to the corresponding female head of the connector, once you hear the "click" sound of the Anderson Connector, the connection is successful.

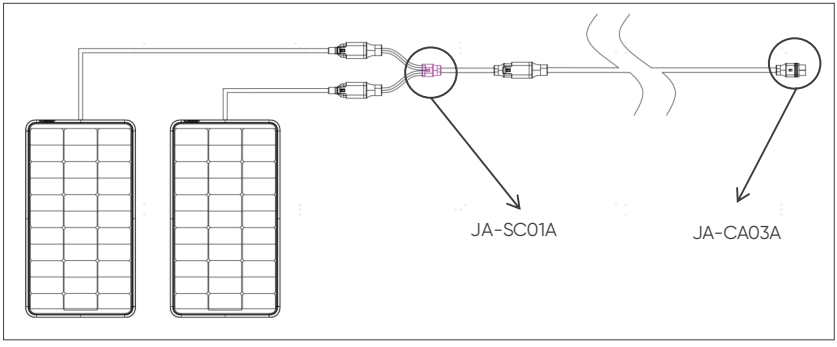
ACCESSORIES DESCRIPTION:

Model	Product Name	Maximum Voltage	Maximum Current	Illustration
JA-SC01A	Jackery Anderson Y Series Connector	120V	20A	 the surface of series connector is marked with "S"
JA-PC01A	Jackery Anderson Y Parallel Connector	120V	25A	 the surface of parallel connector is marked with "P"
JA-CA03A	Jackery Anderson Extension Cable	120V	20A	

HOW TO CONNECT JACKERY PORTABLE POWER STATION:

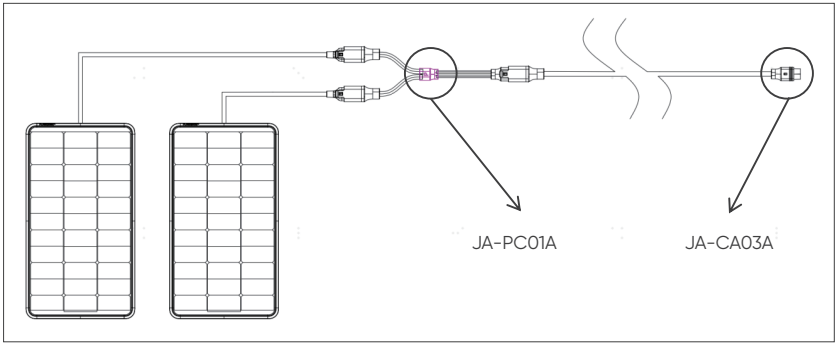
1) Applicable models: Explorer 600 Plus/ Explorer 1000 V2

A single DC input port supports a maximum of 2 SolarSaga 100 Prime panels in series. The Explorer 600 Plus supports up to 2 SolarSaga 100 Prime panels, and the Explorer 1000 V2 supports up to 4 SolarSaga 100 Prime panels. The connection diagram is as follows:



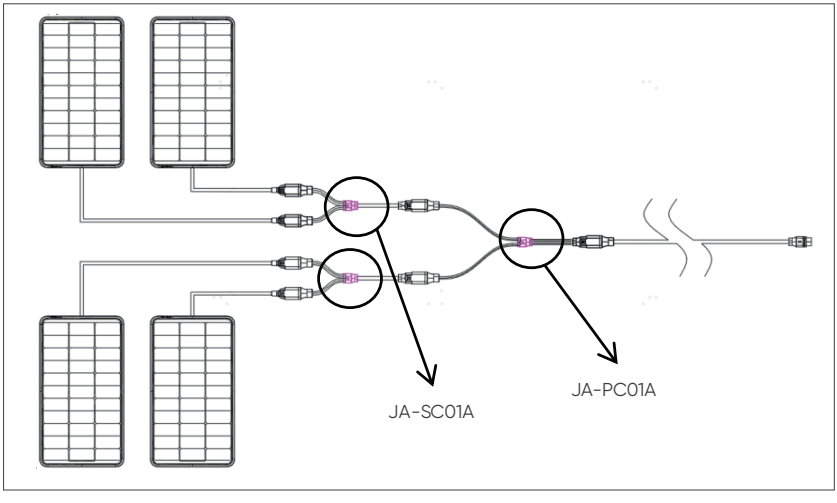
2) Applicable model: Explorer 1500

A single DC input port supports a maximum of 2 SolarSaga 100 Prime panels in parallel. The Explorer 1500 supports up to 4 SolarSaga 100 Prime panels. The connection diagram is as follows:



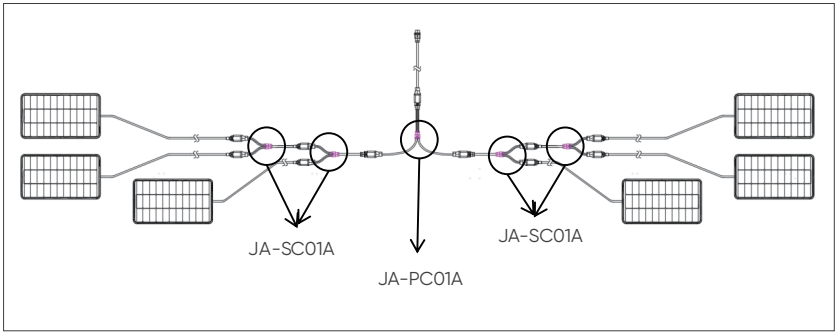
3) Applicable model: Explorer 1000 Plus

A single DC input port supports a maximum of 4 SolarSaga 100 Prime panels in series and parallel combination. The Explorer 1000 Plus supports up to 8 SolarSaga 100 Prime panels. The connection diagram is as follows:



4) Applicable models: Explorer 2000 Plus/Explorer 2000 Pro/Explorer 3000 Pro

A single DC input port supports a maximum of 6 SolarSaga 100 Prime panels in series and parallel combination. The Explorer 2000 Plus/Explorer 2000 Pro/Explorer 3000 Pro supports up to 12 SolarSaga 100 Prime panels. The connection diagram is as follows:



Caution:

1. The above component connection diagrams are for reference only. For the connection of multiple photovoltaic components, it is necessary to match them according to the maximum input voltage and current of the receiving end. After series and parallel connection, the total output voltage of the photovoltaic panels should not exceed the maximum voltage value at the receiving end, and the total output current should not exceed the maximum current value.

2. Due to the limitations of Jackery Anderson Y Series Connector, Jackery Anderson Y Parallel Connector, and Jackery Anderson Extension Cable in terms of rated current and voltage, the total output current and voltage of the photovoltaic panels after series and parallel connection should not exceed the maximum limit of the corresponding accessories.