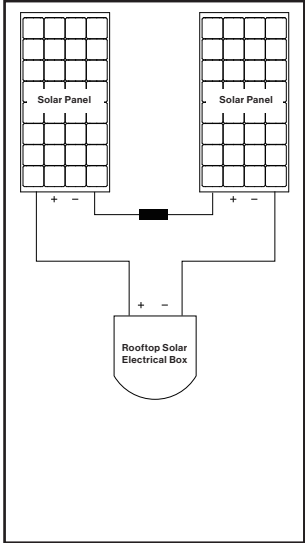
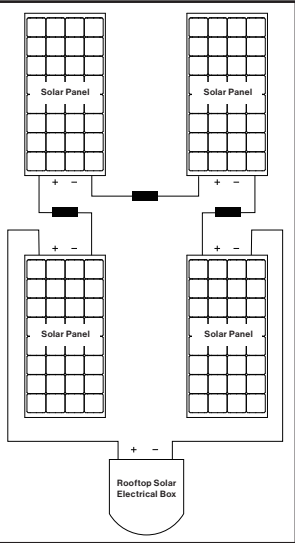


Connection Configuration with Multiple Solar Panels

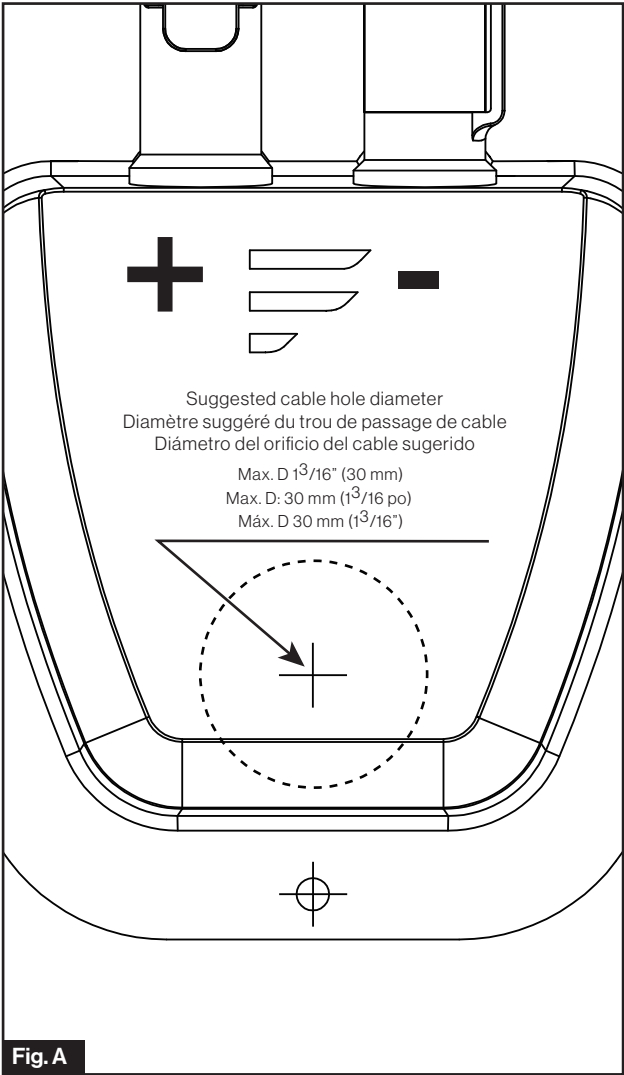
2 Panels in Series



4 Panels in Series



NOTE: Multiple solar panel combinations must be connected in series as shown above do not connect in parallel.



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FURRION

Rooftop Solar Electrical Box

Installation Instructions



Product Features

- Made for simple rooftop solar system expansion
- Fast and easy installation
- Protects cable connections
- Organized cable management
- Greatly reduces the possibility of leaks
- IP65 water proof rated when mounted properly with sealant
- Wire gauge: 10 AWG to 14 AWG electrical wire (minimal thinness of cable is 3.3mm)

⚠ WARNING

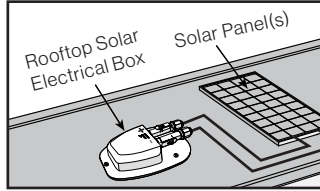
ELECTRICAL SHOCK AND FIRE HAZARD!

To prevent the risk of electrocution or fire, ensure the solar connectors and connecting cables are NOT connected to a power source during installation.

Choosing the Proper Location for the Rooftop Solar Electrical Box

Plan where the Rooftop Solar Electrical Box is going to be located on the RV roof. Ensure placement allows for interior access and connection to the solar charger controller. Orientate the electrical box so the the connectors are facing towards the rear of the vehicle.

NOTE: The ideal location of the Rooftop Solar Electrical Box is adjacent to the solar panel(s). The cable length between Rooftop Solar Electrical Box and solar charger controller should not exceed 25 ft.

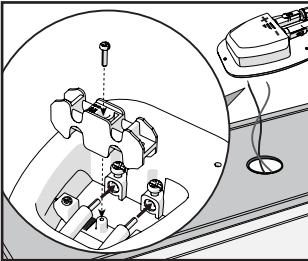
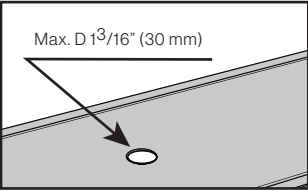
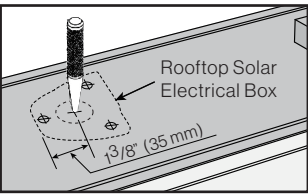


Prepare Wiring for Charge Controller

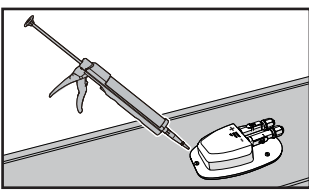
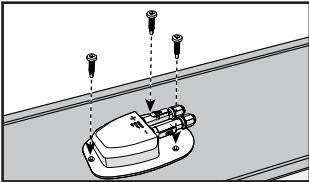
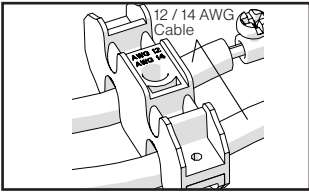
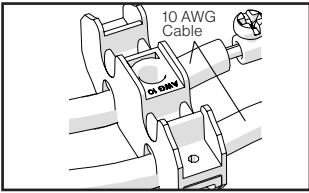
Refer to your solar charge controller mounting bracket (FSCC60PWM-BL) for proper wire installation.

Installing the Rooftop Solar Electrical Box

1. Outline the base of Rooftop Solar Electrical Box with the physical box. Put the template (Fig. A on the last page) on the marking. Punch the screw holes and the cable hole.
2. Drill a small pilot hole on the chosen location, if desired . Enlarge the pilot hole with a suitable drill bit. The hole drilled must be large enough for cables to drop through. DO NOT exceed 1 3/16" maximum diameter.
3. File and remove any sharp edges around the hole that were created during drilling. Thoroughly clean the mounting area to ensure proper sealant bonding.
4. Loosen the strain relief screw inside the Rooftop Solar Electrical Box, and take out the strain relief holder.
5. Strip off the insulation layers of the 2 connection cables with a cable stripper to expose 3/8" metal wires.
6. Loosen the terminals screws, insert the copper wires into the positive and negative terminals respectively, and then fasten the screws with 18-21 in-lbs torque to mount the cables at the terminals.
NOTE: Do not reverse the positive and negative polarity when terminating the wires.



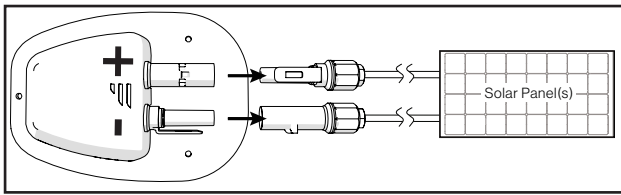
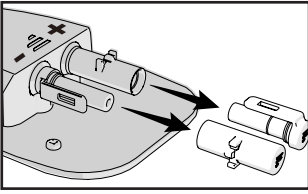
7. The strain relief can house different wire gauges by flipping the side of the holder. One side houses the 10 AWG cable, another houses the 12 or 14 AWG cable. Use the proper side of the holder to house the wire inside the Rooftop Solar Electrical Box by the screw in the middle.
8. Apply sealant tape, such as butyl tape, to the bottom base for additional sealing protection is recommended.
9. Use 3 RV screws (#8-18, 3/4" length) or similar stainless steel pan-head screws to fasten the Rooftop Solar Electrical Box onto the roof.
NOTE: Do not use flat-head (countersunk) screws. Do not over tighten screws.
10. Use appropriate sealant as recommended by your RV dealer or manufacturer to seal screw holes and to properly seal the perimeter of the Rooftop Solar Electrical Box.



Connect to the Solar Panel (purchase separately)

It is recommended to use with Furrion brand solar panels for easy installation.

1. Remove the rubber caps from the ends of the Rooftop Solar Electrical Box connectors.
2. Plug the positive and negative connectors from the solar panel(s) directly into the Rooftop Solar Electrical Box.
NOTE: If using non-Furrion brand solar panels, cut the MC4 connectors and replace with Furrion connectors (purchase separately, model# FSEB30JWP-BL). Do not reverse the positive and negative terminals.





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