

seago[®]

Equip for *Adventure*

SOLAR PANEL INSTALLATION AND WARRANTY

Models: SP-50, SP-100, SP-150

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seagogroup.com

Before installing your Seago ETFE Solar Panels we recommend reading through this document.

Seago strongly recommends that all solar panel products be installed by a qualified professional installer to ensure safety, compliance, and optimal performance.

If you choose to undertake the installation yourself, you must:

- Be competent and experienced in electrical wiring and connections
- Understand the principles of DC electrical systems, including correct polarity and safe handling of live components
- Follow all manufacturer guidelines, local electrical regulations, and safety standards
- Use appropriate tools, protective equipment, and materials for the installation
- Ensure the system is properly fused and protected against short circuits and overcurrent

Incorrect installation can lead to serious safety hazards, including electric shock, fire risk, or damage to the equipment. If you are unsure at any stage, stop immediately and consult a qualified professional.

Handling your panel

Exercise caution when handling these panels prior to installation, particularly those rated above 50W due to their increased length. While the panels are highly durable once installed, they remain susceptible to damage during the installation process. Under no circumstances should the panel be permitted to droop or bend beyond a tolerance of three degrees (equivalent to a 3 cm deflection over 1 m), as this will compromise the cell circuitry and inevitably lead to future failure. It is essential to ensure adequate assistance is available for removing the panel from its packaging and for lifting it into position during installation.

Panel position:

1.1

Choose a location that:

Is generally free from shade

Has a solid surface

Is within 3–4 meters of the charge controller and/or battery

1.2

For multi-panel systems:

Ensure all panels can be positioned close together

Confirm cables can be routed correctly

1.3

If using a bonding agent:

Prepare the underside of the panel by lightly sanding, then cleaning with an alcohol wipe

Mark the fixing area with a pencil (bonding agents create an instant bond, so accuracy is critical)

Clean the surface thoroughly, removing grease or residue.

Cable preparation:

2.1

Connect the extension lead cables to the solar panel cables using the pre-fitted MC04 connectors. Run the cables back to the controller.

Red = Positive

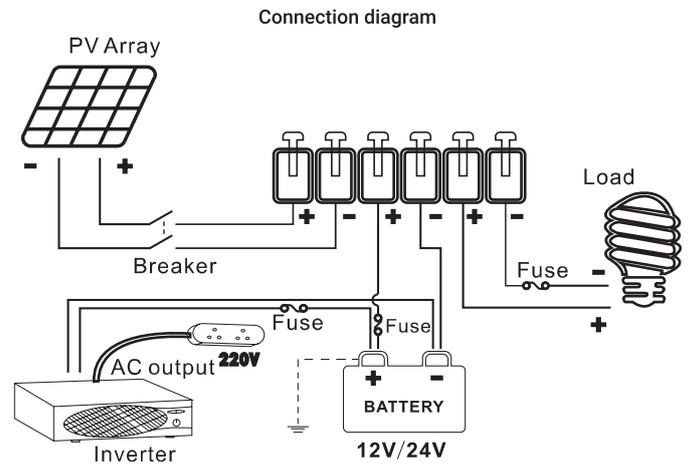
Black = Negative

Connecting to controller:

- 3.1 Position the charge controller as close as possible to the battery in a dry location.
- 3.2 Measure the distance between the battery terminals and the charge controller.
- 3.3 Cut the required length of cable from the 3m cable supplied with the panel, ensuring enough length remains to connect the ETFE panel to the charge controller. Additional cable can be supplied contact your local dealer or get in touch with Seago group.
- 3.4 Connect the cable end attached to the ETFE panel to the charge controller. Strip back 20mm of the black and red outer sheath on the cable end to be connected.
- 3.5 Using the cut section of cable from Step 3.3, attach one end to the terminals of the controller.

Installing a fuse:

- 4.1 Fit the fuse on the positive cable (red) between the charge controller and the battery.
- 4.2 Cut the red cable
Strip 5mm of insulation from both cut ends
Twist the bare wire ends tightly
Insert each end into the screw terminals of the fuse holder pieces



Connection to the battery

- 5.1 Take the cable end from the charge controller:
Strip 6cm of insulation from the red and black cables
Twist the bare wires, wrap around the battery terminals and secure using battery clamps
- 5.2 Always observe correct polarity when connecting to the battery:
RED = POSITIVE (+)
BLACK = NEGATIVE (-)
- 5.3 Refit the fuse into its holder and reassemble the fuse holder. The controller should now power up.

Panel specifications:

Model specification	50w	100w	150w
Power tolerance	±3%	±3%	±3%
Operating voltage [Vmp]	18±0.1V	18±0.1V	18±0.1V
Operating current [Imp]	2.7A±0.5A	5.5A±0.5A	8.3A±0.5A
Short-circuit current [Isc]	3.14A±0.5A	6.04A±0.5A	9.14A±0.5A
Open-circuit voltage [Voc]	21.6V±0.8V	21.6V±0.8V	21.6V±0.8V
Maximum system voltage	1000V	1000V	1000V
Panel size [mm]	560 x 500 x 2	580 x 930 x 2	770 x 970 x 2

Warranty:

Seago ETFE Solar Panels come with a two-year manufacturing warranty, starting from the date of purchase. This warranty covers mechanical failure and water ingress during the warranty period. The warranty will be void if:

- The outer layers or edges of the panel are penetrated, damaged, or cracked
- Recommended handling, storage, installation, or care procedures are not followed
- The panel has been misused, abused, or used for purposes other than its intended application

Neither the manufacturer nor its employees, agents, distributors, or resellers shall be liable for any third-party damage, regardless of cause. Liability is strictly limited to the purchase price paid for the product.

Please note: Return shipping costs for faulty products will not be covered.