PowerFilm®
MADE IN THE USA
SOLAR

250 Watt Portable Remote Expeditionary Scalable Solar (PRESS) Operating Instructions

PowerFilm's Portable Remote Expeditionary Scalable Solar (PRESS) provides 250W using the highest efficiency crystalline cells available.

To see our full line of solar products, accessories, and FAQs visit us at: **www.powerfilmsolar.com**

Important Notes

The PRESS is designed for semi-permanent outdoor use and is 100% waterproof. Cables are available to connect multiple modules in parallel to provide higher current to your battery system.

For larger deployments consisting of multiple PRESS units, lay out all panels (solar side up) flat on the ground first and connect cables so that panels go into operation immediately. Personnel can come back later to set the angles and ballast. If multiple rows are being set up, ensure adequate spacing between rows, so that front panels do not shade those behind.

Set Up

1. Place the unit on the ground facing the central direction of the sun (south).
2. Unfasten the velcro strips on the top edge.
3. Unfasten the velcro around the cables and set aside.
4. Open the PRESS so that the solar cells are visible on top (open from the handle side).
5. Grasp the top edge of the two panels and lift to vertical, leaving the fiberglass base sheet laying flat on the ground.
6. Grab the bottoms of the legs and pull the legs free and backward.
7. Tilt the PRESS backward to the desired angle to the sun and set the bottom of the legs down on the base to hold this angle.
8. Stretch out the velcro strips which are mounted on the base of the legs and press them onto the corresponding strips on the fiberglass base to lock the legs in position.
9. Add ballast if needed considering expected wind conditions. A wide range of materials may be used as ballast including the battery system, rocks, shovelfuls of dirt, or sandbags.
10. Connect to your system using the Regulated Output Cable or Unregulated Output Cable provided with the system (see below).

Regulated Output

For a 24V system use the Parallel Regulated Output Cable. Connect one Aptiv connector to the back of each side of the PRESS and the o-rings to the +/- battery terminals of your 24V system. All connections must be solar positive (red) to battery positive and solar negative (black or blue) to battery negative. Reversing can damage the solar panel.

Unregulated Output

For a charge controller connection, use the Serial Unregulated Output Cable. Connect one Aptiv connector to the back of each side of the PRESS and the bare leads to the controller. All connections must be solar positive (red) to charge controller positive and solar negative (black or blue) to charge controller negative. Reversing can damage the solar panel.
Charge controller must accept at least 58V

For additional connection options contact us at www.powerfilmsolar.com.

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How To Clean Your Solar Panel

Use a damp cloth and a mild soap solution wiping each of the panel's modules. Wait a few minutes for the panel to dry before folding and storing it.

Specifications

42V Configuration

Rated Voltage at Pmax	41.6V
Rated Current at Pmax	5.6A
Maximum Open Circuit Voltage	58V
Short Circuit Current	6A

24V Charger Configuration

Maximum Voltage	28V
Charge Current	9.0A

Part Number	RP-80F4328V
Stowed Dimensions	44.5 x 28.1 x 2.0 inches 1,130.3 x 713.7 x 50.8 mm
Deployed Dimensions	56.2 x 44.5 x 1.0 inches 1,427.5 x 1,130.3 x 25.4 mm
Weight	28.0 lbs 12.7 kg

* Typical specs measured at STC. Contact PowerFilm for maximum specs and tolerances to use in custom designs or complex applications.

Certifications

- CE (Directives 2014/30/EU and 2014/35/EU)
- MIL-STD-810G
- RoHS
- REACH
- Berry Amendment Compliance

Full compliance statements available at:
www.powerfilmsolar.com