

PowerFilm[®]

MADE IN THE USA

SOLAR

270W PRESS Solar Panel

PowerFilm's Portable Remote Expeditionary Scalable Solar (PRESS) provides 270W using the highest efficiency crystalline cells available.

PowerFilm's PRESS provides either a direct, unregulated panel output or a regulated output through an integrated charge controller. Both outputs include blocking diodes, eliminating any reverse current flow.

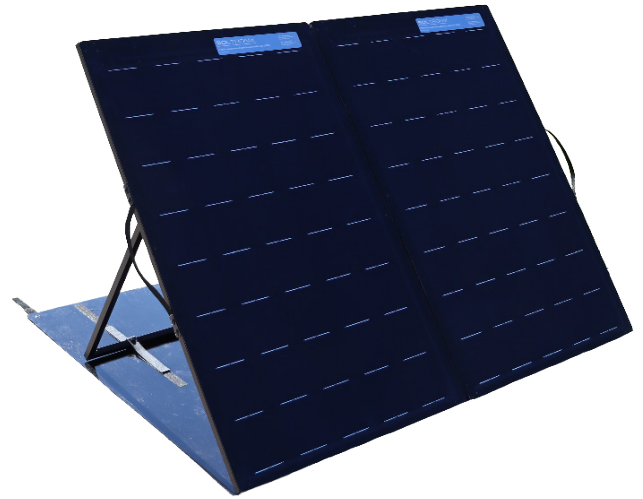
The unregulated output can connect directly to a system with an existing charge controller that accepts 47V-58V.

The regulated output through the integrated charge controller supports traditional 24V systems. The charge controller can be designed to output other voltages as required.

Custom, dedicated cables are available to connect multiple PRESS modules using regulated or unregulated output.

PowerFilm's PRESS is lighter, more durable, and faster to setup and tear down than other solutions on the market. It also withstands wind loads up to 50 mph in any direction when the base is properly weighted.

PowerFilm's PRESS is the perfect, portable lightweight field solution to generate power quickly and efficiently.



Benefits Include:

- Easy to deploy and easy to store.
- Case, stand, and panel integrated into one unit.
- Set up or take down in under a minute.
- Designed, engineered and manufactured in the United States.
- Built to DoD requirements and specifications.
- Can be used flat or angled, angle can vary continuously from less than 30 to greater than 60 degrees.
- Best power/weight ratio of any similar solution.

Certifications:

- CE
- RoHS
- Berry Amendment Compliance
- Designed for MIL-STD-810G

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Electrical Characteristics

47V Configuration

Rated Voltage at Pmax	47.1V
Rated Current at Pmax	5.7A
Maximum Open Circuit Voltage	58V
Short Circuit Current	6.0A

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

24V Charger Configuration

Maximum Voltage	28V
Charge Current	9.0A

Physical Characteristics

Part Number	R3-80F4728V
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

Thermal Characteristics

Temperature Coefficient for Power	-0.27%/°C
Temperature Coefficient for Voltage	-0.236%/°C
Temperature Coefficient for Current	0.058%/°C

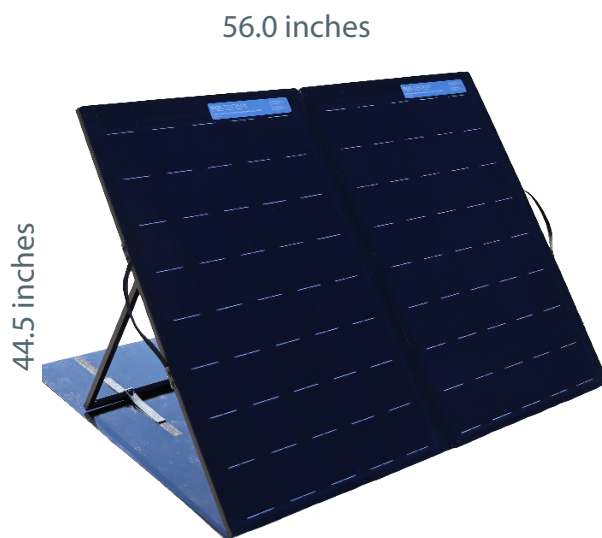
Connectors

Standard Connectors:

- Parallel Regulated Output O-Ring Cable
- Serial Unregulated Output Cable with Bare Leads

Custom Connectors:

- SAE
- Alligator Clips
- NATO Connector
- GREENS



IV Curve (Unregulated)

