

280W Crystalline Foldable Solar Panel

The 280W Crystalline Foldable Solar Panel uses high-efficiency SunPower monocrystalline cells in place of PowerFilm's traditional amorphous silicon, increasing power and reducing the deployed footprint.

The 280W panel provides a unique blend of power and size. This panel is the perfect accessory to power a wide range of electronics.

The solar panels are mounted to fiberglass plates for durability and incorporated into a weather-resistant fabric that quickly folds for storage and unfolds for use.

The 280W Crystalline Foldable Solar Panel powers mission-critical gear in remote and unpredictable environments.



Tips For Best Use

- Angle the solar panel toward the sun for best results
- Always store in a cool, dry environment
- Not designed for use in the rain
- Allow time to air dry before packing if the panel is wet
- Routinely clean the solar panel to ensure the best performance

Certifications

- CE
- RoHS
- Berry Amendment Compliance

Benefits

- Compact, lightweight, durable
- Highest-efficiency crystalline cells available Easy to deploy and easy to store
- Multiple charging adapters to fit your needs and charge a wide range of devices
- Designed, engineered and manufactured in the United States
- Designed for applicable MIL-STD-810G specs
- Tested to ensure the panel meets or exceeds required performance

PowerFilm[®]

ASSEMBLED IN THE USA

SOLAR

Electrical Characteristics

Rated Voltage at Pmax	28.3V
Rated Current at Pmax	9.9A
Open Circuit Voltage	35.3V
Short Circuit Current	10.2A

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

Physical Characteristics

Part Number	FM5-48F28.3VKHABF
Folded Dimensions	16.0 x 14.0 x 2.0 inches 406.4 x 335.6 x 50.8 mm
Unfolded Dimensions	108.6 x 31.3 inches 2,759.6 x 795.9 mm
Weight	10.8 lbs / 4.9 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 Connector:
Delphi Weather Pack

Custom Connectors:
NATO plug
SAE
4.5mm Barrel
Anderson Powerpole



Standard Colors

- Khaki

**Custom Colors Available*

IV Curve

