



SOLAR STIK®

Category: Power Generation

Flexi-Panel Kits

240 W Kit – Item # 19-0302010

360 W Kit – Item # 19-0302011

480 W Kit – Item # 19-0302012

Pushing the Envelope

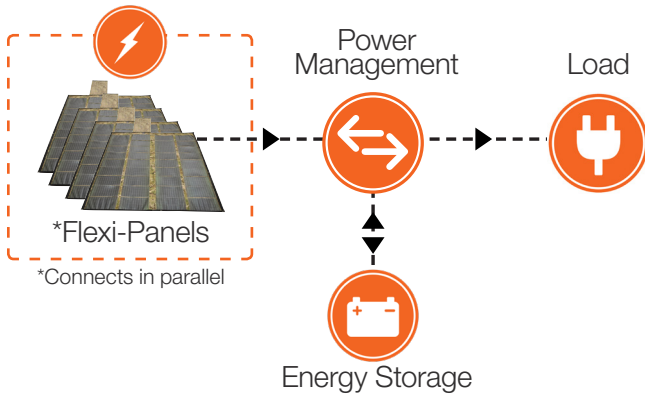
These paper-thin, flexible solar panels generate power when exposed to daylight even when covered in dust, under low-light conditions, or after suffering a puncture. The photovoltaic (PV) panels with weather-resistant backing in each Flexi-Panel Kit look like small blankets when deployed but can be folded to the size of an envelope for transport. Flexi-Panels are ideal for fast-paced, expeditionary applications.

How a Flexi-Panel Kit Works

Unfold and expose the Flexi-Panels to the sun. Connect the panels to the Solar Leash (recommended accessory). Connect the Solar Leash to a power manager, which distributes power to charge batteries and/or provides power to support a load.



Power Generation



Features

- ~1.2 kWh–2.4 kWh of daily power generation*
- Amorphous silicon panels
 - Foldable form factor
 - Performance in low-light conditions
- Weather resistant
- Available in 12 or 24 VDC

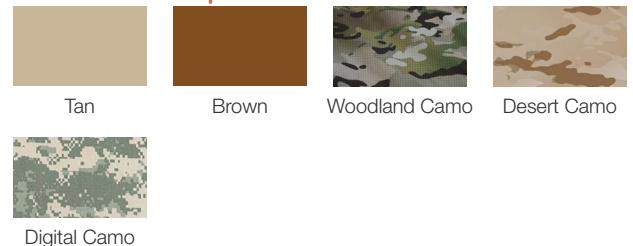
*Based on five hours solar irradiance and kit size

Case Color Options

Tan	Black
	Silver
	Orange
	Yellow
	OD Green
Standard Color	Optional Colors



Flexi-Panel Color Options





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General

Solar Panel Construction	Flexible	Flexible	Flexible
Ground Securing	(32) 7-in (17.8-cm) aluminum stakes (1) Rubber mallet	(32) 7-in (17.8-cm) aluminum stakes (1) Rubber mallet	(32) 7-in (17.8-cm) aluminum stakes (1) Rubber mallet
Transport Case	Pelican 1520	Pelican 1560	Pelican 1560
Warranty	1-year materials, workmanship, and rated power	1-year materials, workmanship, and rated power	1-year materials, workmanship, and rated power

Includes

- (4) Amorphous Silicon Flexi-Panels (Standard Weight)
- (1) Hard case
- (1) Transport pouch
- (32) 7 in (17.8 cm) aluminum stakes
- (1) Rubber mallet

Flexi-Panel Solar Leash not included, but can be stored inside transport case.

Performance Specifications (@ 25 °C/77 °F)

Array Voltage	12 V or 24 V	12 V or 24 V	12 V or 24 V
Array Current	18.4 A (12 V) or 9.2 A (24 V)	27.2 A (12 V) or 13.6 A (24 V)	36.4 A (12 V) or 18.2 A (24 V)
Array Power	222 W	333 W	444 W

Solar Panel (@ 25 °C/77 °F)

Max Power (Pmax)	55.44 W	83.16 W	110.88 W
Rated Voltage (Vmp)	15.4 V	15.4 V	15.4 V
Open Circuit Voltage (Voc)	21.9 V	21.9 V	21.9 V
Rated Current (Imp)	3.6 A	5.4 A	7.2 A
Short Circuit Current (Isc)	4.6 A	6.8 A	9.1 A
Cell Type	Amorphous silicon	Amorphous silicon	Amorphous silicon

Connections

Solar Panel Connectors	SAE polarized	SAE polarized	SAE polarized
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Weights and Dimensions (L x W x H)

Solar Panel Weight	2 lb (0.9 kg)	3 lb (1.4 kg)	4.5 lb (2.0 kg)
Transport Weight	30 lb (13.6 kg)	47 lb (21.32 kg)	53 lb (24.04 kg)
Folded Solar Panel Dimensions	13 x 7.25 x 1 in (33 x 18.4 x 2.5 cm)	14 x 9 x 2.7 in (35.6 x 22.9 x 6.9 cm)	14 x 14 x 2 in (35.5 x 35.5 x 5 cm)
Deployed Solar Panel Dimensions	47 x 51.25 in (119 x 130.18 cm)	65.5 x 54 in (166.4 x 137.2 cm)	86.5 x 54.5 in (219.7 x 138.4 cm)
Transport Dimensions	18.06 x 12.89 x 6.72 in (45.9 x 32.7 x 17.1 cm)	19.92 x 14.98 x 9.00 in (50.6 x 38 x 22.9 cm)	19.92 x 14.98 x 9.00 in (50.6 x 38 x 22.9 cm)
Storage Case Dimension	18.06 x 12.89 x 6.72 in (45.9 x 32.7 x 17.1 cm)	19.92 x 14.98 x 9.00 in (50.6 x 38 x 22.9 cm)	19.92 x 14.98 x 9.00 in (50.6 x 38 x 22.9 cm)

Recommended Components and Accessories



12VDC Flexi-Panel Leash
25 ft Item # 13-0000039



24VDC Flexi-Panel Leash
25 ft Item # 13-0000040



24VDC Power Pak 1000
Item # 21-0102201

