



SOLAR STIK®

Category: Power Generation

Solar Venture 350W

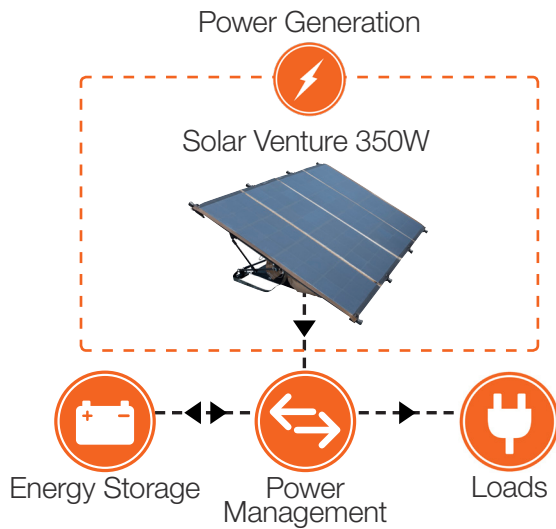
Item # 11-1000060

Solar at the Ready

The Solar Venture 350W features high-efficiency photovoltaic (PV) cells in a rugged setup built to withstand extreme environments. The solar array deploys in minutes and comes in a man-portable transport case. Deployment and breakdown are easily manageable by one person, and the rack design allows for maximum exposure to sunlight.

How a Solar Expedition Works

Sunlight is absorbed by the array's PV panels. These panels turn the sunlight into DC current that is funneled through an appropriate power manager to charge batteries and/or to power loads.



Features

- ~ 1.75 kWh daily power generation*
 - High-efficiency PV cells
 - Adjustable-pitch frame to optimize sun exposure
- Lightweight construction
 - Foldable composite frame
- Modular and scalable with additional panels
- Ruggedized case for secure transport
- Built and designed to MIL-STD-810

*Based on five hours of solar irradiance

Why Solar Stik?

Modular, Scalable Architecture
Field-proven, Rugged Designs
Experienced Team
24/7 Tech Support



Hard transport case with components





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General

Frame Construction	Anodized aluminum, stainless steel, and carbon fiber composites
Frame Adjustment Angles	30° and 60°
Solar Panel Construction	Tan fabric and carbon fiber
Ground Securing	Sandbags
Setup/Stowage Time	3.5 minutes
Transport Case	SKB iSeries 4719-8 waterproof utility case w/ wheels
Warranty	1-year materials and workmanship

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

Array Voltage	59.5 V
Array Current	5.82 A
Array Power	346 W
Number of Solar Panels	1 (4 sections)

Solar Panel (@ 77 °F/25 °C)

Max Power (Pmax)	346.4 W (86.6 W per section)
Rated Voltage (Vmp)	59.6 V (14.9 V per section)
Open Circuit Voltage (Voc)	70 V (17.5 V per section)
Rated Current (Imp)	23.28 Imp (5.82 A per section)
Short Circuit Current (Isc)	24.44 Isc (6.11 A per section)
Cell Type	Monocrystalline silicone
Cell Efficiency (%)	> 25.1%

Connections

Solar Panel Connectors	(1) MC4
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Solar Venture 350W with sandbags

Environmental

Operating Temperature	-40 to 194 °F (-40 to 90 °C)
Storage Temperature	-40 to 194 °F (-40 to 90 °C)
Operating Humidity	0 to 95% RH up to 140 °F (60 °C)
Ingress Protection	<ul style="list-style-type: none"> MIL-STD-810 Method 512, Procedure I, Immersion MIL-STD-810 Method 510, Procedure I, Blowing Dust
Loose Cargo	MIL-STD-810, Method 514, Procedure II
Transit Drop	MIL-STD-810, Method 516, Procedure IV
Vibration	MIL-STD-810, Method 514, Procedure I, Category 20

Weights and Dimensions (L x W x H)

Solar Panel Weight	15.0 lb (6.8 kg)
Assembled Weight	23.6 lb (10.7 kg)
Transport Weight	<ul style="list-style-type: none"> 45.6 lb (20.7 kg) 53.1 lb (24.1 kg) with 30 ft Solar Cable
Solar Panel Dimensions	<ul style="list-style-type: none"> Assembled: 65 x 43 x 0.2 in (165 x 109 x 0.5 cm) Folded: 16 x 43 x 1.5 in (41 x 109 x 3.8 cm)
Assembled Dimensions	65 x 48 x 4 in (165 x 122 x 10 cm)
Transport Dimensions	Case external: 49.7 x 21.5 x 8.87 in (126 x 54.6 x 22.5 cm)

Includes

- (1) Solar Venture hard transport case
- (1) Solar Venture supporting frame
- (1) Solar Venture 350W foldable panel (rigid foldable)
- (1) Large ground-securing mesh
- (1) Small ground-securing mesh
- (14) Sandbags
- Solar Venture Cable not included, but can be stored inside transport case (30 ft only)*

Recommended Components and Accessories



24VDC Solar Venture Cable
30 ft - Item # 13-1000297



24VDC Solar Cable Extension
25 ft - Item # 13-0000057
50 ft - Item # 13-0000066
75 ft - Item # 13-0000067

