



SOLAR STIK®

Category: Power Generation

Solar Stik 400

12 VDC Item # 19-0101007

24 VDC Item # 19-0102017

Set It and Forget It

The Solar Stik 400 power generator is designed for long-term deployments into remote, unattended locations. Constructed with aircraft-grade aluminum and stainless steel, it is a portable, field-proven design that generates power in extreme weather conditions and requires no routine maintenance.

Deployable and Dependable

The compact footprint of the Solar Stik 400 means one person can set it up in minutes—no tools required. Weighing in at just 111 pounds, it matches the power generation performance of larger fixed photovoltaic (PV) arrays, while reliably generating power for critical loads.

Optimal Output

PV panels generate the most power when exposed to direct sunlight. Unlike fixed PV arrays, the Solar Stik 400 uses both vertical and horizontal rotations in its design, allowing for optimal panel positioning no matter where you are on the globe. Additionally, the mast structure is engineered to support wind generation if consistent winds are present in the deployment environment (Breeze Mast Upgrade sold separately).



Features

- ~2.0 kWh of daily energy generation
- Compact installation footprint
- Two axes of panel rotation to optimize power generation
- One-case transport
- Ideal design for long-term deployment
- Adaptable, expandable mast for additional power generation or utility options
- Plug & Play



Solar Stik 400 transport case showing optional Breeze Mast Upgrade



Solar Stik 400 with optional Outrigger Kit





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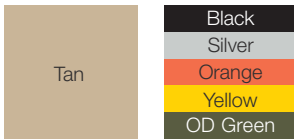
Stik Color Options



Tan*

Black

Case Color Options



Standard Color

Optional Colors



Recommended Accessories



Outrigger Kit

Item # 14-0000004



Hard Earth Bore Kit

Item # 12-0000004



12VDC Solar Leash

25 ft Item # 13-0000058
30 ft Item # TBD
50 ft Item # TBD
100 ft Item # 13-0000061



24VDC Solar Leash

25 ft Item # 13-0000046
30 ft Item # 13-0000043
50 ft Item # 13-0000026
100 ft Item # 13-0000042

Why Solar Stik?

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

General

Operating Voltage	12 VDC or 24 VDC
Construction	T6061 brushed aluminum / 304-316 stainless steel
Transport Case	Pelican AL5430
Warranty	1-year materials and workmanship

Solar Panel

Maximum Power (Pmax)	400 watts (100 watts per panel)
Cell Type	Monocrystalline
Cell Efficiency	> 18%
Construction	Non-glass, fluoropolymer film, low glare, impact resistance, and shatterproof
Frame	Black anodized aluminum alloy type 6063T6 universal frame
Axes of Movement	Axis 1 - Panels rotate on horizontal axis for maximum sun exposure. Axis 2 - Mast rotates on vertical axis for maximum sun exposure.

Connections

Solar Panel	Deutsch 2-pin connector
Solar Output	(2) Amphenol Bayonet (CB2-22-2SC)

Environmental

Temperature Cycling Range	-40 °C to +85 °C (-40 °F to +185 °F)
Humidity Freeze, Damp Heat	85 °C and 85% relative humidity
Static Load Front/Back (e.g., wind)	50 psf (2400 Pa)
Front Loading (e.g., snow)	112 psf (5400 Pa)
Wind Threshold	60 mph with proper ground securing and outriggers
Hailstone Impact	1 in (25 mm) at 52 mph (23 m/s)

Sizes and Weights

Solar Panel Dimensions	47.6 x 21.1 x 1.5 in (121 x 53.6 x 3.8 cm) single panel
Ground Footprint	44.5 in (113 cm) without footpads 61 in (154.9 cm) with footpads
Assembled Height	43 in (109.2 cm) with panels level 64.875 in (164.8 cm) with panels vertical
Assembled Weight	111 lb (50.3 kg) fully assembled
Transport Case Dimensions	35 x 57 x 26 in (88.9 x 144.8 x 66.6 cm)
Transport Weight	276 lb (125 kg)

Includes

- (1) Solar Stik tripod
- (4) 100 W solar panels
- (4) Panel-securing rods
- (1) Hard System transport case
- (3) Foot pads
- (1) Transport pouch
- (3) Ground augers
- (7) 10-inch peg stakes
- (1) T-handle ratchet driver
- (1) Rubber mallet

Optional Breeze Upgrade can be stored in the hard transport case.

