



SOLAR STIK™

SOLAR STIK™ PRO-CELL™ TECHNICAL SPECIFICATIONS

600 ITEM # 015001 / 1600 ITEM # 015002 / 2200 ITEM # 015003



OVERVIEW:

Regardless of how far the application is from the power grid, PRO-Cells™ will deliver energy, and unlike solar or wind, they can provide power in nearly any weather condition. They are an excellent choice for remote metering devices, sensors and transmitters, and require no operator interaction or maintenance to keep them operational.

The Solar Stik™ PRO-Cell™ features EFOY Smart Fuel Cell technology, and has been specially designed for the needs of the professional. All three fuel-cell models can be employed in any application where a 12V DC or 24V DC battery system is utilized.

The PRO-Cell™ is offered in three models, with charging capacity ranging from 600 to 2,200 watt hours per day.

Built into a legendary Pelican™ Case to protect it from the elements, the PRO-Cell™ can operate in a wide range of environments including extreme temperatures, harsh weather or high-particulate conditions.

Solar Stik™ PRO-Cells™ provide robust remote fully integrated power solutions. They are mobile, quiet, emissions-free, turn-key solutions. It operates with any Power Pak, and can be operated in conjunction with other power sources in "Hybrid" configurations.

"HYBRID" OPERATION:

PRO-Cells™ can be used as a primary method of providing power for small loads, but they can also be an effective means to mitigate against failure when a solar array or wind-generator is the primary means of producing power.

Adding a PRO-Cell™ to any battery-based system where other means of producing power are used lessens the dependency on any one generation source providing the operator with a "Hybrid" power solution.

When employed in Hybrid systems, the fuel cell will only operate if other power sources such as wind and/or solar fail and battery Voltage drops below a certain value. This allows the user to produce as much power as is possible from the environment given the (sunny/windy) conditions, with the PRO-Cell™ as a "back-up" power supply during periods of clouds or calm winds.

A PRO-Cell™ can also be used to reduce the volume of lead acid batteries needed during a deployment. Replacing a bank of batteries with just one battery and a PRO-Cell™ can reduce the direct cost (labor and transportation) associated with maintaining banks of batteries in remote or widely dispersed locations.

Adding a PRO-Cell™ to any Solar Stik™ System is simply "Plug & Play". Operation is automatic and seamless, so no interruption in service or power to an existing circuit is effected. PRO-Cells™ automatically determine the battery Voltage in a System when connected, and self-adjust to provide the correct charge.



GS-07F-0079V
CAGE CODE 4TFB8

800.793.4364
WWW.SOLARSTIK.COM
© 2011 SOLAR STIK™ INC. • ALL RIGHTS RESERVED



SOLAR STIK™

SOLAR STIK™ PRO-CELL™ TECHNICAL SPECIFICATIONS

600 ITEM # 015001 / 1600 ITEM # 015002 / 2200 ITEM # 015003

FEATURES:

Pelican™ 1740 Case

Fuel Type: Methanol

kW h per Gallon: 4 kW h per single US Gal (1.06 kW h / L)

Fuel Cartridge Compatibility: M5 or M10 Methanol Cartridge

Compatible batteries: 12V / 24V lead rechargeable (lead-acid, lead-gel or AGM)

20 Amp Master Breaker Switch

Operating Temperatures:
-20 °C to + 45 °C (-4 °F to + 113 °F)

Noise emissions: 23 dB(A) at 7 m distance
39 dB(A) at 1 m distance

Life Expectancy: 2000 Hours

Venting: Normally Aspirated

Programmable Control

Remote Monitoring Data Interface: RJ-45 plug

Recommended Altitude: 5,000 ft.

Required Start-up Voltages for 12V DC / 24V DC operation:
10.5V DC / 21.0V DC

Field Servicable: No

Includes:

5' "Y" Cable with 12V DC & 24V DC Inter-connectors

EFOY SFC Fuel Cell:

CE -Listed

Warranty:

One Year Materials & Workmanship

PRO-Cell™ Pak Exterior Dimensions:

20.62" x 16.87" x 8.12" (52.3 x 42.8 x 20.6 cm)

40 lbs. empty (18.1 kg)

Available Case Colors:



FUEL CELL	600	1600	2200
Charging capacity	600 Wh/Day	1560 Wh/Day	2160 Wh/Day
Nominal power	25 W	65 W	90 W
Nominal current @ 12 V / 24 V	2.1 A / 1.05 A	5.4 A / 2.7 A	7.5 A / 3.75 A



PRO-Cell™ Transportation:

Methanol Fuel is highly flammable and is subject to D.O.T. restrictions.

LAND/SEA - Fuel Cartridges must be disconnected before Fuel Cell can be transported on land.

AIR - Cartridge must be removed before transport by air.

HAZARDOUS MATERIALS:

Methanol Fuel is highly toxic. Avoid direct contact with Methanol.

Use only authorized EFOY / SFC Methanol Cartridges in Solar Stik™ PRO-Cells™.



GS-07F-0079V
CAGE CODE 4TFB8

800.793.4364
WWW.SOLARSTIK.COM

© 2011 SOLAR STIK™ INC. • ALL RIGHTS RESERVED