SOLAR STIK®

PRO-Verter 1600

Overview

The Portable Remote Operation Inverter/Charger (PRO-Verter) provides a single point of power management, control, and distribution to a portable, battery-based, electrical circuit. The “open-architecture” design of the PRO-Verter allows the operator to network multiple power generation technologies into a single operational system that supports a specific application with clean, uninterrupted power.

PRO-Verters can be custom designed to integrate with any world-standard AC grid power, DC power generation source (i.e., solar or wind via a DC Power Hub), or fuel-driven generator to supply AC and DC power for any application. The PRO-Verter supplies power to the load by drawing directly from the batteries in the system while simultaneously receiving power input from a fuel-powered generator (optional) or from DC power generation sources to charge the batteries. When inverting, the PRO-Verter 1600 can provide 1000 watts continuous, pure sine wave AC power. Power output ports can be customized to meet user needs.

The PRO-Verter also allows remote monitoring. Sold as an accessory, the optional Remote Monitoring Kit (RMK) transmits real-time system information over any LAN or internet gateway.

The PRO-Verter 1600 can be used in multiple situations:

- When a primary battery is used in the electrical circuit
- If reduction of fuel generator “runtime” is necessary
- When supplemental (generator or grid) power is required for a renewable power system

Exterior may appear different depending on the custom port types selected.

Features

- Compatible with 1.0–3.0 kW generators
- Auto Generator Start (non-AGS also available)
- LCD user interface
- Information Plate (I-Plate)—critical information at a glance: PRO-Verter function and system-specific integration
- Plug & Play setup and operation

Case Color Options

Tan* Black

* Indicates standard color

MADE IN USA

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Energy Storage Requirements

Energy Storage	5 kWh minimum

Power Generation Options

Power Hub	Solar and wind
Generator	1-3 kW recommended
Grid Power	50 or 60 Hz

Custom Port Type Examples* (AC In/Out)

Port Type	NEMA	Amps	Voltage
	5-15P 5-15R	15 A	125 VAC
	L5-30P L5-30R	30 A	125 VAC

*Connectors with specifications appropriate for any world region are available. For more information about other port types and their capabilities, please contact us.

Remote Monitoring Kit (Optional)

Complete System Monitoring	• Current status • 24-hour running average • Historical
Connectivity	• Ethernet (TCP/IP) • Wireless (optional)

Weights and Dimensions

Case	Pelican 1550 case
Weight	40 lb (18.1 kg)
Dimensions	20.62 x 16.87 x 8.12 in (52.4 x 42.8 x 20.6 cm)

General

Input Battery Voltage	9–17 VDC
Breakers	Input/Output breakers sized according to customer power requirements and system capacities.
User Interface	LCD for system monitoring and programming
Warranty	1-year materials and workmanship

Inverter Specifications

Normal AC Output Voltage	120 VAC ± 5%
Output frequency	60 Hz ± 0.1%
Surge Power	1050 W
Continuous Output Power	1000 W
Waveform	Pure sine wave

DC Charger Specifications

Normal DC Output Voltage	12 V
Continuous Output Current	50 A DC

Connections

AC Input	(1) AC input port **(Specified by customer, see "Custom Port Type Examples")**
AC Output	(1 or 2) Output receptacles **(Specified by customer, see "Custom Port Type Examples")**
DC Input/Output	(1) Inter-Connect port for additional DC bus, converter, or Power Hub
DC Output	(2) 12 VDC receptacles supply up to 150 watts of power to 12 VDC appliances
Battery Input	(1) Inter-Connect port for battery, Power Pak, or Expander Pak

Environmental

Operating Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Operating Humidity	0 to 95% RH noncondensing
Cooling	Fan cooled

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