1000W PowerVerter APS 12VDC 120V Inverter/Charger with Pure Sine-Wave Output, Hardwired

MODEL NUMBER: **APS1012SW**







Portable 1000W power source for power tools, computers, audio/video components and other sensitive electronics as a vehicle inverter, standalone AC power source or extended-run UPS. Ideal for mobile, emergency and remote sites.

Description

The APS1012SW 1000W PowerVerter APS 12V DC 120V AC Inverter/Charger is a reliable power source for a wide variety of power tools, computers, audio/video components and other sensitive electronics at mobile, emergency and remote sites. With no fumes, fuel or excess noise, it’s an excellent alternative to generator power.

The DC-to-AC pure sine-wave inverter delivers network-grade power to sensitive electronics. Its automatic line-to-battery transfer switch and integral charging system allow the unit to work as a vehicle inverter, standalone AC power source or extended-run UPS. It delivers 1000W of continuous power or 2000W of peak power up to 10 seconds during equipment startup or cycling. An automatic overload detector, cooling fan and resettable AC circuit breaker protect the unit from damage.

Designed for easy installation in RVs, fleet vehicles and emergency vehicles, the APS1012SW converts stored power from a user-supplied battery to standard household current for unlimited runtime in heavy-load conditions. When powered by an external 120V AC source, the unit keeps the user-supplied battery charged via a three-stage 4/40A selectable charging system while simultaneously delivering conditioned, pure sine-wave AC power to connected equipment.

When used as a UPS, the APS1012SW responds to blackouts and brownouts with an automatic, instantaneous transfer to battery-derived, pure sine-wave AC power. LEDs on the side of the unit indicate battery level, overload status and inverter operation.

Features

Highlights

- Delivers pure sine-wave 120V AC power from AC or DC source
- 1000W continuous output power; 2000W peak power
- Auto-transfer switching option for UPS operation
- Protects against blackouts, surges and EMI/RFI line noise
- Rugged steel housing resists moisture and impact

Package Includes

- APS1012SW 1000W PowerVerter APS 12V DC 120V AC Inverter/Charger
- Owner’s manual

Reliable Power for Mobile, Emergency and Remote Sites
- Generates 120V pure sine-wave power from 12V battery bank
- Ideal for powering variable-speed tools, computers, LEDs, fans, audio/video components and other sensitive electronics
- Designed for easy installation in RVs, fleet vehicles and emergency vehicles
- Functions as vehicle inverter, standalone AC power source or extended-run UPS
- Unlimited runtime with variety of user-supplied batteries

Pure Sine-Wave Power for Normal and Peak Power Demands
- 1000W of continuous power
- 2000W of peak power up to 10 sec. to accommodate surge power demands during equipment startup and cycling
- Automatic overload detector, cooling fan and resettable AC circuit breaker protect unit from damage
- High-current DC input terminals for simple hardwired installation

Automatic Transfer Switching
- Transfer relay switches to inverter power during blackout in 16.6 ms

3-Stage 4/40A Selectable Battery Charger
- Serves as battery charger when external 120V AC power is supplied and powering connected equipment
- Protects battery from overcharging and overdischarging
- Low-battery protection prevents excessive battery depletion
- DIP switches configure wet/gel charging profiles

External Ports
- Battery temperature port allows connection of optional remote battery temperature sensor, such as Tripp Lite's APSSWTEMP
- RJ45 communication port allows connection of optional remote control module, such as Tripp Lite's APSRMSW

Easy Operation
- LEDs indicate battery level, overload status and inverter operation
- On/off button provides one-touch control

Rugged Steel Housing
- Resists moisture, vibration, impact and high-humidity environments
- Built-in mounting feet for installation on any rigid horizontal surface

Specifications

OVERVIEW	
UPC Code	037332159878
INPUT	
Nominal Input Voltage(s) Supported	120V AC

Maximum Input Amps / Watts	DC INPUT: Full continuous load - 120A at 12VDC. AC INPUT: 15 amps at 120VAC with full inverter and charger load.
Recommended Electrical Service	DC INPUT: Requires 12VDC input source capable of delivering 120A for the required duration (when used at full continuous capacity). For automotive applications, professional hardwire installation with 225A minimum battery system fusing is recommended.
Input Connection Type	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: Hardwire
Voltage Compatibility (VAC)	120
Voltage Compatibility (VDC)	12
OUTPUT	
Frequency Compatibility	50 / 60 Hz
Pure Sine Wave Output	Yes
Nominal Output Voltage(s) Supported	120V
Output Receptacles	Hardwire
Continuous Output Capacity (Watts)	1000
Peak Output Capacity (Watts)	2000
Output Voltage Regulation	LINE POWER (AC): Maintains 120V nominal sine wave output. INVERTER POWER (AC): Maintains sine wave output voltage of 120-150VAC (+/-5%). DC CHARGER OUTPUT (See battery recharge rate section)
Output Frequency Regulation	60 Hz (+/- 0.3 Hz)
Overload Protection	Includes 15A input breaker dedicated to the charging system and 15A output breaker for AC output loads
BATTERY	
Expandable Runtime	Yes
Expandable Runtime Description	Runtime is expandable with any number of user supplied wet or gel type batteries
DC System Voltage (VDC)	12
Battery Charge	Includes 4/40 amp DC charging system with selectable profiles for vented wet cell and sealed gel cell batteries.
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	Set of front panel LED's display inverter status, charger status, as well as battery voltage status
Switches	The inverter provides a RJ-45 port for optional APSRMSW remote control. RJ45 port operates with standard RJ485 interface (APSRMSW sold separately)
Audible Alarm	Audible status indicators
PHYSICAL	
Material of Construction	Powder-Coated Steel
Cooling Method	Fan
Form Factors Supported	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)
Shipping Dimensions (hwd / in.)	12.20 x 12.30 x 21.50
Shipping Dimensions (hwd / cm)	30.99 x 31.24 x 54.61

Shipping Weight (lbs.)	36.20
Shipping Weight (kg)	16.42
Unit Dimensions (hwd / in.)	7.250 x 9.000 x 18.000
Unit Dimensions (hwd / cm)	18.41 x 22.22 x 45.72
Unit Weight (lbs.)	35.5
Unit Weight (kg)	16.10
ENVIRONMENTAL	
Relative Humidity	0-95% non-condensing
WARRANTY & SUPPORT	
Product Warranty Period (U.S. & Canada)	2-year limited warranty
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty

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