

Position a 400A fuse link less than 18 in. from the battery in the positive line to protect against high-current draw that may occur during inverter failure.

2000W PowerVerter APS 12VDC 120V Inverter/Charger with Auto-Transfer Switching, Hardwired

MODEL NUMBER: APS2012



Highlights

- Delivers clean 120V AC power from AC or DC power source
- 2000W continuous output power;
 4000W peak power
- Auto-transfer switching option for UPS operation
- Protects against blackouts, surges and EMI/RFI line noise
- Rugged polycarbonate housing resists moisture and impact

Package Includes

- APS2012 2000W PowerVerter APS 12V DC 120V AC Inverter/Charger
- Owner's manual

Description

The APS2012 2000W PowerVerter APS 12V DC 120V AC Inverter/Charger is a reliable power source for a wide variety of equipment ranging from power tools and pumps to portable lighting and computer equipment in heavy-load conditions. With no fumes, fuel or excess noise, it's an excellent alternative to generator power.

The DC-to-AC inverter features an automatic line-to-battery transfer switch and integrated charging system that allow it to work as a vehicle inverter, standalone AC power source or extended-run UPS. It delivers 2000W of continuous power, 3000W up to one hour, or 4000W of peak power up to 10 seconds during equipment startup or cycling. An automatic overload detector, cooling fan and resettable AC circuit breakers protect the unit from damage.

Designed for easy installation in RVs, commercial and fleet vehicles, emergency vehicles and construction equipment, the APS2012 converts stored power from any 12V battery or automotive DC source to safe, stable, computer-grade AC power for unlimited runtime. When hardwired to an external 120V AC source, the unit keeps the user-supplied battery charged via a three-stage 25/100A selectable charging system while simultaneously delivering AC power to connected equipment.

When used as a UPS, the APS2012 responds to blackouts and brownouts with an automatic, instantaneous transfer to battery-derived AC output. LEDs on the unit indicate load level, battery charge level, shutdown status and system fault status.

Features

Reliable Power for Mobile, Emergency and Remote Sites

- Generates safe, stable, computer-grade 120V AC power from 12V battery bank
- Ideal for powering tools, saws, motors, pumps, portable lighting, appliances and computer equipment in heavy-load conditions
- · Designed for easy installation in RVs, commercial and fleet vehicles, emergency vehicles and construction equipment
- Functions as vehicle inverter, standalone AC power source or extended-run UPS



• Unlimited runtime with variety of user-supplied batteries

Meets Normal and Peak Power Demands

- 2000W of continuous power
- 3000W of reserve power up to 1 hr.
- 4000W of peak power up to 10 sec. to accommodate surge power demands during equipment startup and cycling
- · Automatic overload detector, built-in cooling fan and resettable AC circuit breakers protect unit from damage

Automatic Transfer Switching

- Transfer relay switches to inverter power during blackout in 16.6 ms
- 3-position switch enables Auto, Charge Only or System Off mode
- DIP switches configure high and low voltage auto-transfer

3-Stage 25/100A 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

Optional Remote Control Capability

• RJ45 communication port allows connection of optional remote control module, such as Tripp Lite's APSRM4

Front-Panel LEDs

• Indicate load level, battery charge level, shutdown status and system fault status

Rugged Polycarbonate Housing

- Resists moisture, vibration and impact
- Built-in mounting feet for installation on any rigid horizontal surface
- Internal grounding terminal connects unit to earth ground or vehicle grounding system

Specifications

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Nominal Output Voltage(s) Supported	120V	
Frequency Compatibility	60 Hz	
Output Receptacles	Hardwire	
Output (Watts)	2000	
Continuous Output Capacity (Watts)	2000	
Peak Output Capacity (Watts)	4000	
Output Voltage Regulation	LINE POWER (AC): Maintains 120V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 120 V AC (+/-5%).	





Output Frequency Regulation	60 Hz (+/- 0.3 Hz)
Overload Protection	Includes 25A input breaker dedicated to the charging system and 20A output breaker for AC output loads
INPUT	
Nominal Input Voltage(s) Supported	120V AC
Recommended Electrical Service	DC INPUT: Requires 12V DC input source capable of delivering 192A for the required duration (when used at full continuous capacity - DC requirements increase during Over-Power and Double-Boost operation).
Maximum Input Amps / Watts	DC INPUT: Full continuous load - 192A at 12V DC. AC INPUT: 38 amps at 120V AC with full inverter and charger load (21A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output I
Input Connection Type	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: Hardwire via built in junction box with cover plate. User supplies cabling. 4 gauge or larger (see manual). AC INPUT: user supplies hardwire input cabling.
Voltage Compatibility (VAC)	120
Voltage Compatibility (VDC)	12
BATTERY	
Expandable Battery Runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
DC System Voltage (VDC)	12
Battery Pack Accessory (Optional)	98-121 sealed lead acid battery(optional)
Battery Charge	25A/100A (selectable)
Expandable Runtime	Yes
USER INTERFACE, ALERTS & COM	NTROLS
Front Panel LEDs	Set of 6 LEDs offer continuous status information on load percentage (6 levels reported) and battery charge level (7
	levels reported). See manual for sequences.
Switches	3 position on/off/remote switch enables simple on/off power control plus "auto/remote" setting that enables distant on/off control of the inverter system when used in conjunction with optional APSRM4 accessory when used in inverter mode. In AC uninterruptible power mode, "auto/remote" setting enables automatic transfer from line power to battery power - to maintain continuous AC power to connected loads.
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Unit Weight (lgs.) 40 Unit Weight (lgs) 18.1 Cooling Method Multi-speed fan Material of Construction Polycarbonate Form Factors Supported Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information) ENVIRONMENTAL Relative Hundidly 0-95% non-condensing LINE / BATTERY TRANSFER LINE / BATTERY TRANSFER LINE / BATTERY TRANSFER LINE / BATTERY TRANSFER Line / Gransfer to Battery flower to Battery Mounting and inverter on any horizontal surface (see manual for additional mounting information) Low Voltage Transfer to Battery in 16.5 milliseconds (typical - compatible with many computers, servers and networking equipment - verify transfer to Battery Mode) Low Voltage Transfer to Battery in 16.4 milliseconds inverter/charger switches to battery mode as line voltage drops to 75V (user adjustable to 85, 95, 190) SPECIAL FEATURES Load Sensing Optional load sense function enables automatic inverter shutoff and startup as connected equipment is powered off any level, up to 150 watts. WARRANTY Product Warranty Period (U.S. & 1-year limited warranty Product Warranty Period (Mexico) 2-year limited warranty Product Warranty Period (Mexico) 2-year limited warranty Product Warranty Period (Mexico) 1-year limited warranty Product Warranty Period (Puerto 1-year limited warranty) Product Warranty Period (Puerto 1-year limited warranty) Product Warranty Period (Puerto 1-year limited warranty)			
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YES/NO WEB CATEGORY PAGE FILTERS		1-year limited warranty	
	YES/NO WEB CATEGORY PAGE FILTERS		
Remote Control Capability Yes	Remote Control Capability	Yes	

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