

Position a 300A 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.

## **2400W PowerVerter APS 24VDC 120V Inverter/Charger with Auto-Transfer Switching, Hardwired**

**MODEL NUMBER: APS2424**



Portable 2400W power source for any type of equipment from power tools to computers as a vehicle inverter, standalone AC power source or extended-run UPS. Ideal for RVs, commercial and fleet vehicles and emergency vehicles.

### **Description**

The APS2424 2400W PowerVerter APS 24V 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 2400W of continuous power, 3600W up to one hour, or 4800W 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 APS2424 converts stored power from any 24V 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 14/55A selectable charging system while simultaneously delivering AC power to connected equipment.

When used as a UPS, the APS2424 responds to blackouts and brownouts with an automatic, instantaneous transfer to battery-derived AC output. LEDs on the unit indicate AC/DC operational modes,

### **Highlights**

- Delivers clean 120V AC power from AC or DC power source
- 2400W continuous output power; 4800W 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**

- APS2424 2400W PowerVerter APS 24V DC 120V AC Inverter/Charger
- Owner's manual



overload status, DC voltage 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 24V 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

- 2400W of continuous power
- 3600W of reserve power up to 1 hr.
- 4800W 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
- 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-position switch enables Auto, Charge Only or System Off mode
- DIP switches configure high and low voltage auto-transfer

### 3-Stage 14/55A 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

### Optional Remote Control Capability

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

### Front-Panel LEDs

- Indicate AC/DC operational modes, overload status, DC voltage level, shutdown status and system fault status



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#### Rugged Polycarbonate Housing

- Resists moisture, vibration and impact
- Built-in mounting feet for installation on any rigid horizontal surface

## Specifications

OVERVIEW	
UPC Code	037332090256
INPUT	
Nominal Input Voltage(s) Supported	120V AC
Recommended Electrical Service	DC INPUT: Requires 24VDC input source capable of delivering 112A 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 - 112A at 24VDC. AC INPUT: 44 amps at 120VAC with full inverter and charger load (24A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output load
Input Connection Type	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: Hardwire via built in junction box with cover plate
Voltage Compatibility (VAC)	120
Voltage Compatibility (VDC)	24
OUTPUT	
Frequency Compatibility	60 Hz
Pure Sine Wave Output	No
Output (Watts)	2400
Nominal Output Voltage(s) Supported	120V
Output Receptacles	Hardwire
Continuous Output Capacity (Watts)	2400
Peak Output Capacity (Watts)	4800
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 30A input breaker dedicated to the charging system and 20A output breaker for AC output loads
BATTERY	
Expandable Battery Runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
Expandable Runtime	Yes
DC System Voltage (VDC)	24

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Load Sensing	Optional load sense function enables automatic inverter shutoff and startup as connected equipment is powered off and on. Front panel load sense potentiometer can be set to shutoff or turn on inverter power in response to loads of any level, up to 150 watts.
<b>WARRANTY</b>	
Product Warranty Period (U.S. & Canada)	1-year limited warranty
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	1-year limited warranty

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