

## Important Note

Position a 100A 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 48VDC 120V Inverter/Charger with Auto-Transfer Switching, Hardwired, UL

MODEL NUMBER: **APS2448UL**



Portable UL-rated 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, construction equipment and emergency vehicles.

## Description

The APS2448UL 2400W PowerVerter APS 48VDC 120V 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. And it's tested to meet UL (U.S.) and CSA (Canada) safety standards.

The DC-to-AC inverter features an automatic line-to-battery transfer switch and integrated charging system that allow it to work as an extended-run UPS, standalone AC power source or vehicle inverter. 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 APS2448UL converts stored power from any 48V 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 15A charging system while simultaneously delivering AC power to connected equipment.

When used as a UPS, the APS2448UL responds to blackouts and brownouts with an automatic, instantaneous transfer to battery-derived AC output.

## Features

### Reliable Power for Mobile, Emergency and Remote Sites

- Generates safe, stable, computer-grade 120V AC power from 48V 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

## 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
- Tested to UL (U.S.) and CSA (Canada) safety standards

## Package Includes

- APS2448UL 2400W PowerVerter APS 48V DC 120V AC Inverter/Charger
- Owner's manual

construction equipment

- Functions as extended-run UPS, standalone AC power source or vehicle inverter
- Unlimited runtime with variety of user-supplied batteries
- Tested to UL (U.S.) and CSA (Canada) safety standards

#### 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 8 ms
- 3-position switch enables Auto, Charge Only or System Off mode
- DIP switches configure high and low voltage auto-transfer

#### 3-Stage 15A 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 APSRM4

#### Front-Panel LEDs

- Indicate AC/DC operational modes, overload status, DC voltage 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

## Specifications

| OVERVIEW                           |              |
|------------------------------------|--------------|
| UPC Code                           | 037332042842 |
| INPUT                              |              |
| Nominal Input Voltage(s) Supported | 120V AC      |



|  |  |
|--|--|
| Cooling Method                             | Multi-speed 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.)            | 12.90 x 21.10 x 14.50  |
| Shipping Dimensions (hwd / cm)             | 32.77 x 53.59 x 36.83  |
| Shipping Weight (lbs.)                     | 44.60  |
| Shipping Weight (kg)                       | 20.23  |
| Unit Dimensions (hwd / in.)                | 7.250 x 8.500 x 16.750   |
| Unit Dimensions (hwd / cm)                 | 18.415 x 21.59 x 42.545  |
| Unit Weight (lbs.)                         | 38.6   |
| Unit Weight (kg)                           | 17.51  |
| <b>ENVIRONMENTAL</b>                       |  |
| Relative Humidity                          | 0%-95% Non-Condensing  |
| Operating Temperature                      | 32 to 104 F (0 to 40 C)  |
| <b>LINE / BATTERY TRANSFER</b>             |  |
| Transfer Time (Line Power to Battery Mode) | 8 milliseconds (typical - compatible with many computers, servers and networking equipment - verify transfer time compatibility of loads for UPS applications)   |
| Low Voltage Transfer to Battery Power      | In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 75V (user adjustable to 85, 95, 105V - see manual)   |
| High Voltage Transfer to Battery Power     | In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 135V (user adjustable to 145 - see manual)   |
| <b>FEATURES &amp; SPECIFICATIONS</b>       |  |
| 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>STANDARDS &amp; COMPLIANCE</b>          |  |
| Product Certifications                     | CAN/CSA-C22.2 No. 107.1 (Canada); NOM (Mexico); UL 1778  |
| Product Compliance                         | RoHS   |
| <b>WARRANTY &amp; SUPPORT</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  |
| Optional Coverage                          | 1-Year, 2-Year, and 3-Year standard warranty extensions available. See Extended Warranties section for ordering part number  |



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