

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**



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, overload status, DC voltage level, shutdown status and system fault status.

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

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



Rugged Polycarbonate Housing

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

Specifications

| MODEL TEXT | |
|-------------------------------------|--|
| Key Benefit | 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. |
| OUTPUT | |
| Nominal Output Voltage(s) Supported | 120V |
| Frequency Compatibility | 60 Hz |
| Output Receptacles | Hardwire |
| Output (Watts) | 2400 |
| 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 |
| 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 |
| BATTERY | |
| Expandable Battery Runtime | Runtime is expandable with any number of user supplied wet or gel type batteries |
| DC System Voltage (VDC) | 24 |
| Battery Pack Accessory (Optional) | <u>98-121</u> sealed lead acid battery (optional) |



Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

| | |
|--|--|
| Battery Charge | 14A/55A (selectable) |
| Expandable Runtime | Yes |
| USER INTERFACE, ALERTS & CONTROLS | |
| 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 <u>APSRM4</u> 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. |
| SURGE / NOISE SUPPRESSION | |
| AC Suppression Joule Rating | 600 |
| PHYSICAL | |
| Shipping Dimensions (hwd / in.) | 13.5 x 15 x 21.5 |
| Shipping Dimensions (hwd / cm) | 34.29 x 38.1 x 54.61 |
| Shipping Weight (lbs.) | 42 |
| Shipping Weight (kg) | 19.1 |
| Unit Dimensions (hwd / in.) | 7.25 x 8.5 x 16.25 |
| Unit Dimensions (hwd / cm) | 18.42 x 21.59 x 41.28 |
| Unit Weight (lbs.) | 39 |
| Unit Weight (kg) | 17.7 |
| 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 Humidity | 0-95% non-condensing |
| LINE / BATTERY TRANSFER | |
| Transfer Time (Line Power to Battery Mode) | 16.6 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) |
| SPECIAL FEATURES | |



Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

| | |
|---|--|
| 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. |
| Remote Control Capability | 1 |
| WARRANTY | |
| 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 |

© 2017 Tripp Lite. All rights reserved. All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice.

Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies:

<https://www.tripplite.com/products/product-certification-agencies>

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А