

Important Note

Position a 200A 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.

1250W PowerVerter APS 12VDC 120V Inverter/Charger with Auto Transfer Switching, 2 Outlets

MODEL NUMBER: **APS1250**



Portable dual-outlet power source for power applications, such as power tools and computers, as a vehicle inverter, standalone AC power source or extended-run UPS. Ideal for RVs, fleet vehicles and emergency vehicles.

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, over-the-road trucks, fleet vehicles and emergency vehicles
- Functions as a vehicle inverter, standalone AC power source or extended-run UPS
- Features 2 front NEMA 5-15R outlets
- Unlimited runtime with variety of user-supplied batteries

Meets Normal and Peak Power Demands

- 1250W of continuous power
- 1850W of reserve power up to 1 hr.
- 2500W 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 breaker protect unit from damage

Automatic Transfer Switching

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

Highlights

- Delivers clean 120V AC power from AC or DC power source
- 1250W continuous output power; 2500W 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

- APS1250 1250W PowerVerter APS 12V DC 120V AC Inverter/Charger
- Owner's manual



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

3-Stage 30A 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 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
- Grounding lug connects unit to earth ground or vehicle grounding system
- Built-in 6-ft. (1.83 m) AC power cord with NEMA 5-15P plug connects to AC power source

Specifications

| OVERVIEW | |
|------------------------------------|--|
| UPC Code | 037332121653 |
| INPUT | |
| Nominal Input Voltage(s) Supported | 120V AC |
| Maximum Input Amps / Watts | DC INPUT: Full continuous load - 127A at 12V DC. AC INPUT: 12 amps at 120VAC with full inverter and charger load (6.3A max charger-only) |
| Recommended Electrical Service | DC INPUT: Requires 12VDC input source capable of delivering 125A for the required duration (when used at full continuous capacity - DC requirements increase during OverPower and DoubleBoost operation). For automotive applications, professional hardwire installation with 225A minimum battery system fusing is recommended. AC INPUT: 120VAC |
| Input Connection Type | DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: NEMA 5-15P input plug |
| Voltage Compatibility (VAC) | 120 |
| Voltage Compatibility (VDC) | 12 |
| OUTPUT | |
| Frequency Compatibility | 60 Hz |
| Pure Sine Wave Output | No |
| Output (Watts) | 1250 |



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|--|---|
| Nominal Output Voltage(s) Supported | 120V |
| Output Receptacles | (2) 5-15R |
| Continuous Output Capacity (Watts) | 1250 |
| Peak Output Capacity (Watts) | 2500 |
| 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 8A input breaker dedicated to the charging system and 12A output breaker for AC output loads |
| BATTERY | |
| Expandable Runtime | Yes |
| Expandable Battery Runtime | Runtime is expandable with any number of user supplied wet, gel or SLA batteries |
| Expandable Runtime Description | Runtime is expandable with any number of user supplied wet, gel or SLA batteries |
| DC System Voltage (VDC) | 12 |
| Battery Pack Accessory (Optional) | 98-121 sealed lead acid battery (optional) |
| Battery Charge | 30A max, 3 step, float for long term maintenance |
| 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 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. |
| SURGE / NOISE SUPPRESSION | |
| AC Suppression Joule Rating | 450 |
| PHYSICAL | |
| Material of Construction | Polycarbonate |
| 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) |
| Receptacle Color | Black |
| Shipping Dimensions (hwd / in.) | 12.60 x 10.60 x 10.20 |
| Shipping Dimensions (hwd / cm) | 32.00 x 26.92 x 25.91 |
| Shipping Weight (lbs.) | 24.30 |
| Shipping Weight (kg) | 11.02 |
| Unit Dimensions (hwd / in.) | 7.000 x 8.750 x 9.000 |



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| Unit Dimensions (hwd / cm) | 17.78 x 22.23 x 22.86 |
| Unit Weight (lbs.) | 23.2 |
| Unit Weight (kg) | 10.52 |
| 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) |
| STANDARDS & COMPLIANCE | |
| Product Compliance | RoHS |
| WARRANTY & SUPPORT | |
| 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 |

1000 Eaton Boulevard
Cleveland, OH 44122
United States
<https://tripplite.eaton.com>

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