Important Note

Position a 125A 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.

750W PowerVerter APS 12VDC 120V Inverter/Charger with Auto-Transfer Switching, 2 Outlets

MODEL NUMBER: **APS750**



Portable dual-outlet power source for small 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.

Highlights

- Delivers clean 120V AC power from AC or DC power source
- 750W continuous output power; 1500W 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

- APS750 750W PowerVerter APS 12V DC 120V AC Inverter/Charger
- Owner’s manual

Description

The APS750 750W 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 750W of continuous power, 1125W up to one hour, or 1500W 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, over-the-road trucks, fleet vehicles and emergency vehicles, the APS750 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 20A charging system while simultaneously delivering AC power to connected equipment.

When used as a UPS, the APS750 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.

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
- Features 2 NEMA 5-15R outlets
- Unlimited runtime with variety of user-supplied batteries

Meets Normal and Peak Power Demands
- 750W of continuous power
- 1125W of reserve power up to 1 hr.
- 1500W 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 20A 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	037332121608
INPUT	
Nominal Input Voltage(s) Supported	120V AC
Maximum Input Amps / Watts	DC INPUT: Full continuous load - 72A at 12V DC. AC INPUT: 8 amps at 120VAC with full inverter and charger load (4.2A max charger-only)

Recommended Electrical Service	DC INPUT: Requires 12V DC input source capable of delivering 72A for the required duration (when used at full continuous capacity - DC requirements increase during Over-Power and Double-Boost operation). AC INPUT: 15A 120V AC recommended
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)	750
Nominal Output Voltage(s) Supported	120V
Output Receptacles	(2) 5-15R
Continuous Output Capacity (Watts)	750
Peak Output Capacity (Watts)	1500
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 6A AC input breaker dedicated to the charging system and 8A 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 Charge	20A
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 uninterrupt
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.)	12.40 x 10.60 x 10.60
Shipping Dimensions (hwd / cm)	31.50 x 26.92 x 26.92
Shipping Weight (lbs.)	19.60
Shipping Weight (kg)	8.89
Unit Dimensions (hwd / in.)	7.000 x 8.750 x 9.000
Unit Dimensions (hwd / cm)	17.78 x 22.23 x 22.86
Unit Weight (lbs.)	17
Unit Weight (kg)	7.71
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

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