PowerVerter APS Inverter/Charger

Reliable Alternate Power Source

Model #: APS750

- 12V DC input; 120V AC output; 2 outlets
- 750 watts continuous output (960 watts bypass output)
- 1500 watts peak output for an extended period
- 3-stage, built-in battery charger
- Fast load switching with millisecond transfer time

DESCRIPTION

Tripp Lite's APS750 3-function DC-to-AC inverter with automatic line-to-battery transfer and integrated charging system serves as an extended run UPS, a standalone power source or an automotive inverter. Supplies up to 750 watts of continuous 120V AC power to 2 AC outlets from any 12V battery or automotive DC source. When AC cable is connected to a live wall socket, commercial power passes through to connected equipment and the battery set is recharged via 3 stage, 20 amp charging system. Supplies up to 960 watts of continuous 120V AC bypass power. In UPS mode, the APS system responds to blackouts and brownouts with an uninterrupted transfer to battery-derived AC output. Includes a set of high current DC input terminals for simple installation (user supplies batteries and cabling). Reliable transformer design, with efficient PWM sine wave output and frequency control, powers resistive electronic loads or large inductive motors, compressors and other items with high current needs on startup. Supports an unlimited amount of runtime with any number of user-supplied batteries connected. Highly adaptable to a variety of applications and site conditions with adjustable charger settings for wet/gel battery types and selectable line to battery power transfer voltages.

PowerVerter APS Inverters accommodate "peak surge" demands by delivering more output power than their continuous rating. Compare the "Continuous" and "Peak Surge" wattage ratings, and you'll find PowerVerter Plus Inverters supply up to double their output to easily handle equipment start up and motor cycling requirements. A DoubleBoost™ feature provides up to 200% of the continuous output for up to 10 seconds, providing the extra power needed to cold start heavy-duty tools and equipment. An OverPower™ feature delivers up to 150% of the continuous output for up to 1 hour.

KEY BUYING POINTS

- 750 watts continuous output power (while inverting); provides up to twice this rating for momentary startup of inductive loads. Provides 960 watts of power while passing through utility AC; the pass through power the APS750 can supply is limited by the facility/vehicle circuit board which the APS750 is connected to.
- 2 outlets; 6 ft. AC power cord; DC input terminals for 12V battery connection
- Converts 12V DC to 120V AC
- Frequency control for operating stability
- Coated internal circuit boards offer continuous operation in humid environments (0-95%, non-condensing)
- Advanced 20 amp, 3-stage battery charger and selector switch for gel or wet cell batteries
- 6 diagnostic LEDs indicate AC present, on battery, charge rate, overload & battery voltage level (high, medium & low)
- Functions as an extended run UPS system, standalone power source and automotive inverter
- Battery runtime is dependent upon the size and number of user-supplied 12-volt batteries used
- Includes AC input cord and auto-transfer to enable battery charging and automatic UPS support for blackouts & brownouts
- RJ45 port allows connection of APS/PowerVerter Remote Switch (manuf# APSRM4)
- Switch allows user to select between off, auto-invert/remote and charge-only settings
- Configuration switches to allow the user to select the high and low voltage for the unit to automatically transfer from AC power to battery backup
- Resettable circuit breaker protects APS against system overload

TYPICAL APPLICATIONS

- Automotive connect to an automotive battery system to run power tools, computers, electronic test equipment, home entertainment

and other AC appliances in utility fleet service vehicles, over-the-road trucks, campers, RVs, minivans and more.

- Standalone power alternative power source for use in off-grid, backwoods, alternative energy and export applications where commercial power is not continuously available.
- Extended run UPS configure as a UPS for long-term battery support of telecom systems, security alarms, computer systems and various other motorized and electronic loads.

OPTIONS & ACCESSORIES

- Battery - 12 volt / 75 amp-hour (98-121)
- Battery cabinet holds 2 batteries; includes cabling (BP260)
- APS/PowerVerter Remote Switch to control the unit from up to 50-ft. away; diagnostic LEDs (APSRM4)

PACKAGE INCLUDES

- APS750 Inverter/Charger
- Instruction manual with warranty information

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW	
System overview:	Reliable 12VDC to 120V AC power inverter system serves as an automotive inverter, a battery charger and an uninterruptible power supply. Extended runtime capable with any number of user supplied batteries. 750 watts continuous / 1500 watts peak. 6 ft. AC input cord. 2 AC outlets.
Voltage compatibility:	12V DC / 120V AC
Frequency compatibility:	60 Hz
OUTPUT	
Output watt capacity (watts):	Continuous (Inverting) - 750 watts, Overpower (up to 1 hour) - 1125 watts, Double-Boost wattage (up to 10 seconds) - 1500 watts; Continuous (Pass Through) - 960 watts (limited only by facility/vehicle circuit board)
Output nominal voltage:	AC OUTPUT: 120V AC nominal, DC CHARGER OUTPUT (DC): 12V DC nominal
Output voltage regulation:	LINE POWER (AC): Maintains 120V nominal sine wave output. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 120 V AC (+/-5%). DC CHARGER OUTPUT (See battery recharge rate section)
Output frequency regulation:	60 Hz (+/- 0.3 Hz)
Outlet quantity / type:	Includes 2 AC outlets (NEMA 5-15R)
Overload protection:	Includes 6A input breaker dedicated to the charging system and 8A output breaker for AC output loads
INPUT	
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
Input connection type:	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: NEMA 5-15P input plug
Input cord length:	DC INPUT: User supplies cabling. 6 gauge or larger recommended. AC INPUT: attached 6 ft. AC line cord with plug
Recommended electrical service:	DC INPUT: Requires 12V DC input source capable of delivering 72A for the required duration (when used at full continuous capacity). AC INPUT: 120V AC
BATTERY	
DC system voltage:	DC input operating range 10-15V DC.

Battery recharge rate:	Includes 20 amp DC charging system with selectable profiles for vented wet cell and sealed gel cell batteries (see manual for detailed charger information)
Expandable battery runtime:	Runtime is expandable with any number of user supplied wet or gel type batteries
LEDS ALARMS & SWITCHES	
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 surge suppression:	AC surge suppression not included
PHYSICAL	
Shipping weight (lbs):	19
Shipping weight (kg):	8.5
Unit weight (lbs):	17
Unit weight (kg):	7.7
Unit Dimensions (HWD/in):	7 x 8.75 x 9
Unit Dimensions (HWD/cm):	17.8 x 22.3 x 22.9
Shipping Dimensions (HWD/in):	12.5 x 11 x 10.75
Shipping Dimensions (HWD/cm):	31.8 x 27.9 x 27.3
Material of construction:	Polycarbonate
Form factors supported:	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)
Cooling method:	Fan
ENVIRONMENTAL	
Operating Temperature:	32-104 Fahrenheit / 0-40 Celcius
Relative Humidity:	0-95% non-condensing
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode:	4-6 milliseconds
Low voltage transfer to battery power:	User configurable to 75V, 85V, 95V & 105V
High voltage transfer to battery power:	User configurable to 135V, 145V
WARRANTY	
Product warranty:	1 year (Outside the U.S. and Canada, call for warranty information)
SPECIAL FEATURES	
Appearance:	Black color

The policy of Tripp Lite is one of continuous improvement.
Specifications are subject to change without notice.
Therefore, your product may vary slightly from what is currently listed.

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