

PowerVerter® APS X Series 750W Inverter/Charger with Auto-Transfer Switching and 2 C13 Outlets

MODEL NUMBER: **APSX750**



Description

Tripp Lite's APSX750 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 230V AC power to 2 AC outlets from any 12V battery or automotive DC source. OverPower inverter output feature temporarily provides up to 150% of the continuous output for 1-60 minutes and DoubleBoost inverter output feature delivers up to 200% of the continuous output for up to 10 seconds, providing the extra power needed to cold start heavy-duty tools and motorized equipment. 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, selectable 5/20 amp charging system. In UPS mode, the APS system responds to blackouts and voltage fluctuations with a near instantaneous automatic transfer to battery-derived AC output. Includes a set of high current DC input terminals for simple installation (user supplies batteries and cabling - see owner's manual for recommendations). Passes sine wave utility or generator power during battery charging and UPS line power operation, plus efficient PWM sine wave AC output in inverter and UPS backup modes. Reliable large transformer design, with frequency control powers resistive electronic loads or large inductive motors, compressors and other items with high current needs on startup. Optional APSRM4 wired remote power switch with full status LEDs provides remote power inverter on/off switching and continuous status information (APSRM4 sold separate). 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.

Features

- Supports 230V AC output from a 230V AC line power source or 12V DC battery source
- 10 millisecond automatic transfer between line and battery power supports UPS protection during blackouts and voltage fluctuations for equipment compatible with a 1/2 cycle transfer time
- 750W continuous AC output in inverter mode
- Double Boost™ inverter output supports momentary startup loads up to 200% of the continuous rating for up to 10 seconds (see specification chart)

Highlights

- 12V DC or 230V AC input; 230V, 50 Hz output; 2 AC outlets
- 750 watts continuous, 1125 watts OverPower™ and 1500 watts DoubleBoost™ inverter output (see specifications)
- 3-stage, selectable 5 / 20 amp, wet/dry cell battery charger with 1/2 cycle transfer time
- Auto Transfer Switching option for battery backup / UPS operation
- Reliability enhanced large-transformer design with protected DC terminals

Applications

- Versatile inverter/charger system with auto-transfer switching serves as an automotive inverter for RVs, over-the-road trucking, conversion vans, high humidity environments and fleet service vehicles; a standalone alternative power source for off-grid, alternative energy or export applications and as an uninterruptible power supply (UPS) for items compatible with a 10 millisecond transfer time.
NOTE: For sump pump applications, Tripp Lite recommends its "UT" Utility Truck Inverter/Chargers.

Package Includes

- APSX750 Inverter/Charger
- Instruction manual with warranty information



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- OverPower™ inverter output supports longer duration overloads to 150% for 1-60 minutes under ideal battery and temperature conditions
- 3 stage, selectable 5/20 amp battery charger with adjustable settings for wet/gel battery types
- Dual C13 output receptacles pass 120V line power or inverter output through to connected equipment
- 3 position operating mode switch supports "AUTO" mode to enable automatic transfer between DC and AC modes, CHARGE-ONLY to maintain a full battery charge when AC is present without auto transfer and SYSTEM OFF settings
- Set of 6 front panel LEDs display continuous status
- Set of 4 dip switches support wet/gel battery charging profiles, charger enable/inhibit, and selectable 144/163/182/201V AC low voltage auto transfer during brownouts
- Set of 4 additional dip switches support 4 levels of charger limiting relative to output load size, a battery equalization program and battery charger low/high settings
- Resettable 3A charger AC input breaker and resettable 4A AC output breaker and automatic 2 speed cooling fan protect the inverter from load and temperature related failures
- Automatic overload and thermal (overheating) shutoff
- Front panel remote control connector enables remote off/on switching (requires APSRM4 switch accessory)

Specifications

OVERVIEW	
Intended Application	Emergency Home Power
Style	Heavy-duty with built-in battery charger
OUTPUT	
Frequency Compatibility	50 Hz
Output (Watts)	750
Continuous Output Capacity (Watts)	750
Peak Output Capacity (Watts)	1500
Output Nominal Voltage	230V
Output Voltage Regulation	LINE POWER (AC): Maintains 230V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 230 VAC (+/-5%).
Output Frequency Regulation	50 Hz (+/- 0.3 Hz)
Overload Protection	Includes 3A input breaker dedicated to the charging system and 4A output breaker for AC output loads
Outlet Quantity / Type	2 Universal (IEC-320)
Number of Outlets	2
INPUT	
Nominal Input Voltage(s) Supported	230V AC
Recommended Electrical Service	DC INPUT: Requires 12VDC input source capable of delivering 72A 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 100A minimum battery system fusing is recommended. AC INPUT: 230VAC



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Maximum Input Amps / Watts	DC INPUT: Full continuous load - 72A at 12VDC. AC INPUT: 6.2A at 230VAC with full inverter and charger load (2.2A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output loading using the charger limiting set points - see manual for setting instructions)
Input Connection Type	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: IEC-320 C14 inlet connection
Voltage Compatibility (VAC)	230
Voltage Compatibility (VDC)	12
BATTERY	
Expandable Battery Runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
DC System Voltage (VDC)	12
Battery Pack Accessory (Optional)	98-121 sealed lead acid battery (optional)
Battery Charge	Selectable 5 / 20 amp with 1/2 cycle (10 ms) transfer time
LEDS ALARMS & SWITCHES	
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.
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.
SURGE / NOISE SUPPRESSION	
AC Suppression Joule Rating	840
PHYSICAL	
Shipping Dimensions (hwd / in.)	12.5 x 11 x 10.75
Shipping Dimensions (hwd / cm)	31.75 x 27.94 x 27.31
Shipping Weight (lbs.)	20
Shipping Weight (kg)	9.1
Unit Dimensions (hwd / in.)	7 x 8.75 x 9
Unit Dimensions (hwd / cm)	17.78 x 22.23 x 22.86
Unit Weight (lbs.)	18.6
Unit Weight (kg)	8.3
Cooling Method	Multi-speed fan
Material of Construction	Polycarbonate
Form Factors Supported	Mounting slots enable permanent placement of APSX750 on any horizontal surface (see manual for additional mounting information)
ENVIRONMENTAL	
Relative Humidity	0-95% non-condensing



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LINE / BATTERY TRANSFER	
Transfer Time (Line Power to Battery Mode)	Transfer time from line power to battery mode: 10 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	Low voltage transfer to battery power: In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 144V (user adjustable to 163, 182, 201V - see manual)
High Voltage Transfer to Battery Power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 272
SPECIAL FEATURES	
Remote Control Capability	Yes
CERTIFICATIONS	
Certifications	RoHS Compliant
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

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