Tripp Lite
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PowerVerter® APS X Series 4000W Inverter/Charger with Auto-Transfer Switching and Hardwire Input/Output

MODEL NUMBER: **APSX4048SW**







Description

Tripp Lite's APSX4048SW 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 4000 watts of continuous 220,230 or 240V selectable AC input & output from any 48V DC battery or automotive DC source; 50/60 Hz pure sine wave output (hardwired). When hardwire AC input is energized, commercial power passes through to connected equipment and the battery set is recharged via 3 stage, 1/70 amp charging system. In UPS mode, the APS system responds to blackouts and severe 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, and sine wave AC output in inverter and UPS backup modes. Built-in Automatic Voltage Regulation (AVR) corrects line power AC brownouts and overvoltages without using battery power during battery charging and UPS standby 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 APSRMSW wired remote power switch with full status LEDs provides remote power inverter on/off switching and continuous status information (part# APSRMSW sold separately). 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

- 220,230 or 240V selectable AC input & output from any 48V DC battery or automotive DC source
- 4000W continuous pure sine wave AC output in inverter mode
- Double Boost output supports momentary start-up loads up to 200% of the continuous rating for up to 10 seconds (see specification chart) - OverPower output supports longer duration overloads to 150% for up to 60 seconds

Highlights

- 220,230 or 240V selectable AC input & output from any 48V DC battery or automotive DC source
- 50/60 Hz, pure sine wave output (hardwired)
- 4000 watts continuous, 4500 watts OverPower and 6000 watts DoubleBoost inverter output
- 3-stage, 1/70 amp selectable wet/dry cell battery charger; Auto Transfer Switching
- Automatic Voltage Regulation corrects brownouts and overvoltages without using battery power
- Capable of 3-phase operation: See owner's manual
- Capable of parallel operation up to 7 units (28kw)

Applications

Versatile inverter/charger 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 selectabe half-cycle (10ms) or full-cycle (20ms) transfer times. NOTE: For sump pump applications, Tripp Lite recommends its "UT" Utility Truck Inverter/Chargers.

Package Includes

- APSX4048SW Inverter/Charger
- Instruction manual with warranty information

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- 3-stage, selectable 1/70 amp battery charger with adjustable settings for wet/gel battery types
- LCD display and 4 membrane selector buttons allow user to configure operation
- Automatic overload and thermal (overheating) shutoff
- Front panel remote control connector enables remote off/on switching (APSRMSW sold separately)
- Load sensing control dial enables adjustable load threshold required to automatically turn the inverter on and off in DC mode as load conditions change
- Remote battery temperature sensing connection function prolongs battery life by adjusting the charge float voltage level based on battery temperature

Specifications

OUTPUT	
Frequency Compatibility	50 / 60 Hz
Output Receptacles	(1) Hardwire
Output (Watts)	4000
Continuous Output Capacity (Watts)	4000
Peak Output Capacity (Watts)	6000
Output Nominal Voltage	220/230/240V
Output Voltage Regulation	LINE POWER (AC): Maintains nominal sine wave output from line power source. INVERTER POWER (AC): Maintains sine wave output of +/-2%
Output Frequency Regulation	50/60 Hz (+/- 0.5 Hz)
Pure Sine Wave Output	Yes
INPUT	
Nominal Input Voltage(s) Supported	220V AC; 230V AC; 240V AC
Recommended Electrical Service	DC INPUT: Requires 48VDC input source capable of delivering 120A for the required duration (when used at full continuous capacity - DC requirements increase during OverPower and DoubleBoost operation). For automotive applications, professional hardwire
Maximum Input Amps	120
Input Connection Type	DC INPUT: Set of DC bolt-down terminals. AC INPUT: Hardwire via built in terminal strip with cover plate
Voltage Compatibility (VAC)	220; 230; 240
Voltage Compatibility (VDC)	48
BATTERY	
Expandable Battery Runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
DC System Voltage (VDC)	48
Battery Pack Accessory (Optional)	98-121 sealed lead acid battery (optional)
Battery Charge	Selectable 1/70 amp
VOLTAGE REGULATION	
Voltage Regulation Description	Includes automatic voltage regulation to correct brownouts and overvoltages back to usable levels

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Overvoltage Correction	Overvoltages are automatically reduced by 10%
Brownout Correction	Brownouts are automatically boosted by 10% and 20%
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	LCD display offers continuous status information on load percentage (6 levels reported) and battery charge level (7 levels reported). See manual for sequences.
Switches	5 memebrane switches allow user to operate and configure unit operation.
PHYSICAL	
Unit Dimensions (hwd / in.)	9 x 7.25 x 22.50
Unit Weight (lbs.)	49
Material of Construction	Metal
ENVIRONMENTAL	
Relative Humidity	0-95% non-condensing
Operating Temperature	32-104 Fahrenheit / 0-40 Celcius
LINE / BATTERY TRANSFER	
Transfer Time (Line Power to Battery Mode)	20 millisecond (full cycle) / 10 millisecond (half-cycle)
Low Voltage Transfer to Battery Power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops 10 to 80V AC (user adjustable). See manual
High Voltage Transfer to Battery Power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases 10 to 40V AC (user adjustable). See manual
SPECIAL FEATURES	
Remote Control Capability	Yes
TVSS Grounding	Main grounding lug connects inverter/charger to earth or vehicle chassis ground
WARRANTY	
Product Warranty Period (U.S. & Canada)	2-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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