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## Model #: APSX1250F

### PowerVerter APS X Series Inverter/Charger - with Faster Auto-Transfer Switching



#### Highlights

- 12V DC or 230V AC input; 230V, 50 Hz output; 2 AC outlets
- 1250W continuous, 1875W OverPower and 2500W DoubleBoost inverter output (see specifications)
- 3-stage selectable 7.5 / 30 amp wet/dry cell battery charger
- Faster Auto Transfer Switching option for battery backup/UPS operation
- Reliability-enhanced large-transformer design with protected DC terminals

#### Description

Tripp Lite's APSX1250F DC-to-AC inverter with faster automatic line-to-battery transfer and integrated charging system serves as an extended-run UPS, a stand-alone power source or an automotive inverter. Supplies up to 1250W 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 up to 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 a 3-stage selectable 7.5/30A charging system. In UPS mode, the APS system responds to blackouts and voltage fluctuations with 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 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 separately). Provides unlimited runtime with connection of any number of user-supplied batteries. 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.

#### Applications

- Versatile inverter/charger system with auto-transfer switching serves as an automotive inverter for RVs, over-the-road trucking, conversion vans 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.

#### Package Includes

- APSX1250F Inverter/Charger
- Instruction manual with warranty information
- (1) Universal Receptacle Adapter compatible with multiple international plugsets

#### Features

- APSX1250F serves as an automotive or stationary DC-to-AC inverter with a faster automatic line-to-battery transfer and integrated battery charger

- 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 half cycle transfer time
- 1250W 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)
- OverPower inverter output supports longer-duration overloads to 150% for 1-60 minutes under ideal battery and temperature conditions. (For best results, utilize OverPower usage for as short a time as possible, ensure that battery bank and cabling are able to provide full nominal DC voltage under load, and allow inverter/charger to fully cool before and after OverPower usage.)
- 3-stage selectable 7.5/30A battery charger with adjustable settings for wet/gel battery types offers rapid, reliable battery recharging
- Protected hardwire bolt-down input lugs safely accept heavy gauge input wiring from attached battery bank
- Dual C13 output receptacles pass 120V line power or inverter output through to connected equipment
- Reliability-enhanced large-transformer design with secure mounting flanges and protected DC wiring terminals
- Moisture-resistant construction enables vehicular or marine operation in high-humidity environments
- 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 six front panel LEDs display AC/DC operational modes, overload status, DC voltage level, shutdown status and system fault status
- Set of 4 configuration 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 configuration dip-switches supports 4 levels of charger limiting relative to output load size, a battery equalization program and battery charger low/high settings
- Resettable 5A charger AC input breaker, resettable 6A AC output breaker and automatic 2-speed cooling fan protect the inverter from load- and temperature-related failures
- Grounding lug properly connects the inverter/charger system to earth ground or vehicle grounding system
- Automatic overload and thermal shutoff safely turns off inverter if excessive load or overheating conditions develop
- Front panel remote control connector enables remote off/on switching (requires APSRM4 switch accessory). Optional APSRM4 accessory also includes user configurable jacks to support inverter shutoff or startup when a vehicle ignition is engaged

## Specifications

OVERVIEW	
Intended Application	Emergency Home Power
SYSTEM OVERVIEW	
Voltage compatibility	12VDC/230VAC
Frequency compatibility	50 Hz
OUTPUT	
Output watts	INVERTER MODE 1250 watts continuous, Double Boost rated to 2500 watts peak (up to 10 seconds). Overpower rating supports longer term overloads to 1875 watts for up to 15 seconds prior to inverter shutoff.
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)
Outlet quantity / type	Hardwire
Overload protection	Includes 5A input breaker dedicated to the charging system and 6A output breaker for AC output loads
Continuous output capacity (watts)	1250
Peak output capacity (watts)	INVERTER MODE - Double Boost rated to 2500 watts peak (up to 10 seconds). Overpower rating supports longer term overloads to 1875 watts for up to 15 seconds prior to inverter shutoff.
INPUT	
Input connection type	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: IEC-320 C14 inlet connection
Input cord length	DC INPUT: User supplies cabling (6 gauge or larger see manual). AC INPUT: IEC-320 C14 inlet, ships with 1.8 m (6 ft.) IEC C13-C14 AC line cord

<b>Recommended Electrical Service</b>	DC INPUT: Requires 12VDC input source capable of delivering 125A for the required duration (when used at full continuous capacity - DC requirements increase during Over-Power and Double-Boost operation). For automotive applications, professional hardwire
<b>Maximum input amps / watts</b>	DC INPUT: Full continuous load 125A at 12VDC. AC INPUT: 9.3A at 230VAC with full inverter and charger load (3.3A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output loading)
<b>BATTERY</b>	
<b>Expandable battery runtime</b>	Runtime is expandable with any number of user-supplied wet or gel type batteries
<b>DC system voltage</b>	12V
<b>Battery recharge rate</b>	Selectable 7.5 / 30 amp
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LEDs</b>	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
<b>Switches</b>	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
<b>SURGE / NOISE SUPPRESSION</b>	
<b>AC surge suppression</b>	840-joules AC surge suppression rating
<b>PHYSICAL</b>	
<b>Shipping weight (lbs)</b>	26
<b>Shipping weight (kg)</b>	11.8
<b>Shipping Dimensions (HWD/in)</b>	12.5 x 11 x 10.75
<b>Shipping Dimensions (HWD/cm)</b>	31.8 x 27.9 x 27.3
<b>Unit weight (lbs)</b>	24
<b>Unit weight (kg)</b>	10.9
<b>Unit Dimensions (HWD/in)</b>	7 x 8.75 x 9
<b>Unit Dimensions (HWD/cm)</b>	17.8 x 22.2 x 22.8
<b>Material of construction</b>	Polycarbonate
<b>Form factors supported</b>	Mounting slots enable permanent placement of APSX1250 on any horizontal surface (see manual for additional mounting information)
<b>Cooling method</b>	Multi-speed fan
<b>Style</b>	Heavy-duty with built-in battery charger
<b>ENVIRONMENTAL</b>	
<b>Relative Humidity</b>	0-95% non-condensing
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time from line power to battery mode</b>	10 milliseconds (typical compatible with many computers, servers and networking equipment - verify transfer time compatibility of loads for UPS applications)
<b>Low voltage transfer to battery power</b>	In AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 144V (user adjustable to 163, 182, 201V see manual)
<b>High voltage transfer to battery power</b>	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 272
<b>SPECIAL FEATURES</b>	
<b>Appearance</b>	All-black color scheme

Remote control capability	Yes
<b>BATTERY PACK ACCESSORY (optional)</b>	
Battery Pack Accessory (optional)	98-121 sealed lead acid battery (optional)
<b>CERTIFICATIONS</b>	
Certifications	RoHS compliant
<b>WARRANTY</b>	
Product Warranty Period	Outside the U.S. and Canada, call for warranty information

## Related Items

<b>External Battery Housings</b>		
BP-260	Ideal battery housing for use with Tripp Lite PowerVerter APS inverter/charger systems with a 12 or 24V DC system voltage.	Qty: [optional]
<b>Inverter Accessories</b>		
APSRM4	Remote Control Module - for Tripp Lite Inverters and Inverter/Chargers	Qty: [optional]
<b>Replacement Batteries</b>		
98-121	12V DC Sealed, Maintenance-Free Battery - For all PowerVerter models which accept 12V DC input	Qty: [optional]

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=3595](http://www.tripplite.com/en/products/model.cfm?txtModelID=3595).