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Model #: APSINT3636VR

PowerVerter APS INT Series Inverter/Charger - with Auto-Transfer Switching and Line Interactive Voltage Regulation



Highlights

- 36V DC or 230V AC input; 230V, 50 Hz output (hardwired)
- 3600 watts continuous, 5400 watts OverPower and 7200 watts DoubleBoost inverter output (see specifications)
- 3 stage, 30 amp selectable wet/dry cell battery charger
- Auto Transfer Switching option for battery backup / UPS operation - includes wired APSRM4 remote control switch
- Automatic Voltage Regulation corrects brownouts and overvoltages without using battery power
- High reliability large-transformer design with protected DC and AC wiring terminals

Description

Tripp Lite's APSINT3636VR 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 3600 watts of continuous 230V AC power from any 36V battery or automotive DC source. When hardwire AC input is energized, commercial power passes through to connected equipment and the battery set is recharged via 3 stage, 30 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, plus efficient PWM 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. Included APSRM4 wired remote power switch with full status LEDs provides remote power inverter on/off switching and continuous status information (APSRM4 included). 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.

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 20 millisecond transfer time.

Package Includes

- APSINT3636VR Inverter/Charger
- Instruction manual with warranty information
- Wired Remote Switch with full LED status indicators (model APSRM4)

Features

- APSINT3636VR serves as an automotive or stationary DC-to-AC inverter with automatic line-to-battery transfer and integrated battery

charger

- Supports 230V AC output from a 230V AC line power source or 36V DC battery source
- 20 millisecond automatic transfer between line and battery power supports UPS protection during blackouts and severe voltage fluctuations for equipment compatible with a one cycle transfer time
- 3600 watts 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 of a duration as possible, ensure battery bank and cabling is able to provide full nominal DC voltage under load and allow inverter/charger to fully cool before and after OverPower usage.)
- 3 stage, 30 amp battery charger with adjustable settings for wet/gel battery types offers fast, reliable battery recharging
- Protected hardwire bolt-down input lugs safely accept heavy gauge input wiring from attached battery bank
- Protected hardwire output passes 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 dipswitches support wet/gel battery charging profiles, adjustable 259/264V high voltage auto transfer during overvoltages and selectable 144/163/182/201V AC low voltage auto transfer during brownouts
- Set of 4 additional configuration dipswitches support 4 levels of charger limiting relative to output load size, a battery equalization program and battery charger low/high settings
- Resettable 12A charger AC input breaker and resettable 20A 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 as excessive loads or overheating conditions develop
- Front panel remote control connector enables remote off/on switching (APSRM4 remote control switch with status LED display and 50 ft cable included). APSRM4 accessory also includes user configurable jacks to support inverter shutoff or startup as a vehicle ignition is engaged
- Load sensing control dial enables adjustable load threshold required to automatically turn the inverter on and off in DC mode as load conditions change

Specifications

OVERVIEW	
Intended Application	Emergency Home Power
SYSTEM OVERVIEW	
Voltage compatibility	36VDC / 230VAC
Frequency compatibility	50 Hz
OUTPUT	
Output watts	INVERTER MODE - 3600 watts continuous, Double Boost rated to 7200 watts peak (up to 10 seconds). Overpower rating supports longer term overloads to 5400 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 12A input breaker dedicated to the charging system and 20A output breaker for AC output loads.
Continuous output capacity (watts)	3600

Peak output capacity (watts)	INVERTER MODE - Double Boost rated to 7200 watts peak (up to 10 seconds). Overpower rating supports longer term overloads to 5400 watts for up to 15 seconds prior to inverter shutoff.
INPUT	
Input connection type	DC INPUT: Set of DC bolt-down terminals. AC INPUT: Hardwire via built in junction box with cover plate
Input cord length	DC INPUT: User supplies cabling. 8 gauge or larger (see manual). AC INPUT: user supplies hardwire input cabling
Recommended Electrical Service	DC INPUT: Requires 36VDC input source capable of delivering 114A 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
Maximum input amps / watts	DC INPUT: Full continuous load - 114A at 36VDC. AC INPUT: 26 amps at 230VAC with full inverter and charger load (10.4A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output I
BATTERY	
Expandable battery runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
DC system voltage	36V
Battery recharge rate	30 amp
VOLTAGE REGULATION	
Voltage regulation description	Includes automatic voltage regulation to correct brownouts and over-voltages back to usable levels
Overvoltage correction	Over-voltages are automatically reduced by 10%
Brownout correction	Brownouts are automatically boosted by 10%
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.
PHYSICAL	
Shipping weight (lbs)	63
Shipping weight (kg)	28.6
Shipping Dimensions (HWD/in)	13.5 x 15 x 21.5
Shipping Dimensions (HWD/cm)	34.3 x 38.1 x 54.6
Unit weight (lbs)	58
Unit weight (kg)	26.3
Unit Dimensions (HWD/in)	7.25 x 8.5 x 14
Unit Dimensions (HWD/cm)	18.4 x 21.6 x 35.6
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	Multi-speed fan

Style	Heavy-duty with built-in battery charger
ENVIRONMENTAL	
Relative Humidity	0-95% non-condensing
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	20 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 144V (user adjustable to 163, 182V - see manual)
High voltage transfer to battery power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 259V (user adjustable to 264 - see manual)
SPECIAL FEATURES	
Appearance	Black color
Load Sensing	Optional load sense function enables automatic inverter shutoff and startup as connected equipment is powered off and on. Front panel load sense potentiometer can be set to shutoff or turn on inverter power in response to loads of any level, up to 150 watts.
Remote control capability	Yes
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	98-121 sealed lead acid battery (optional)
WARRANTY	
Product Warranty Period	(Outside the U.S. and Canada, call for warranty information)

Related Items

External Battery Housings		
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]
Inverter Accessories		
APSRM4	Remote Control Module - for Tripp Lite Inverters and Inverter/Chargers	Qty: [optional]
Replacement Batteries		
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=1341.