

Model #: RV1512UL

PowerVerter RV Inverter/Charger - Quiet Mobile Power for RV, Camping & Boating Applications



Highlights

- 12V DC or 120V AC input; 120V AC output (hardwired)
- 1500 watts continuous, 2250 watts OverPower™ and 3000 watts DoubleBoost™ inverter output
- 3 stage, 19/75 amp selectable wet/dry cell battery charger
- Built-in Isobar® premium AC surge protection and Auto Transfer Switching option for battery backup / UPS operation
- Tested to power inverter standards UL458 (USA) and CSA (Canada)
- High reliability large-transformer design with protected DC and AC wiring terminals

Description

Tripp Lite's RV1512ULHW Inverter/Charger is the quiet alternative to gas generators - with no fumes, fuel or noise to deal with! It provides equipment with utility- or generator-supplied AC electricity filtered through premium ISOBAR surge protection. This 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 suitable for rugged RV applications. Supplies up to 1500 watts of continuous 120V AC power from any 12V DC battery or automotive DC source. OverPower TM inverter output feature temporarily provides up to 150% of the continuous output for 1-60 minutes, and DoubleBoost TM 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 hardwire AC input is energized, commercial power passes through to connected equipment and the battery set is recharged via 3 stage, selectable 19/75 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 utilty 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 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.

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 16.6 millisecond transfer time.

Package Includes

- RV1512UL Inverter/Charger
- Instruction manual with warranty information

Features

- RV1512UL serves as an automotive or stationary DC-to-AC inverter with automatic line-to-battery transfer and integrated battery charger
- Supports 120V AC output from a 120V AC line power source or 12V DC battery source
- 16.6 millisecond automatic transfer between line and battery power supports UPS protection during blackouts and voltage fluctuations for equipment compatible with a one cycle transfer time
- 1500 watts continuous AC output in inverter mode, 1500 watts continuous AC output in AC mode
- Double Boost inverter output supports momentary startup loads up to 200% of the continuous rating for up to 10 seconds
- 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, selectable 19/75 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 tested to UL (USA) and CSA (Canada) standards
- 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 135/145V high voltage auto transfer during overvoltages and selectable 75/85/95/105V 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 25A 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 (requires APSRM4 switch accessory). Optional 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
- Includes battery temperature sensor with 20 foot cable to prolong battery life by adjusting the charge level based on battery temperature
- Automatic Generator Starter jack enables user configuration of automatic generator startup as inverter batteries drop to 11.5VDC and generator shutoff as inverter batteries are recharged to 14.1VDC

Specifications

OVERVIEW				
Intended Application	RV/Fleet/Alternative Power			
SYSTEM OVERVIEW				
Voltage compatibility (VAC)	120			
Voltage compatibility (VDC)	12			
OUTPUT				
Frequency compatibility	60 Hz			
Output watts	1500			
Continuous output capacity (watts)	1500			
Peak output capacity (watts)	3000			
Output nominal voltage	120V			
Output voltage regulation	LINE POWER (AC): Maintains 120V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 120 V AC (+/-5%).			

Output frequency regulation	60 Hz (+/- 0.3 Hz)				
Overload protection	Includes 25A input breaker dedicated to the charging system and 20A output load breaker				
Outlet quantity / type	Hardwire				
INPUT					
Recommended Electrical Service	DC INPUT: Requires 12V DC input source capable of delivering 145A 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 - 145A at 12V DC. AC INPUT: 35 amps at 120V AC with full inverter and charger loa (15A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output I				
Input connection type	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: hardwire				
Input cord length details	DC INPUT: User supplies cabling. 0 gauge or larger (see manual). AC INPUT: hardwire				
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 recharge rate	19A / 75A (selectable)				
LEDS ALARMS & SWIT	CHES				
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 APSRM4 accessory (sold separately) in inverter mode.				
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 SUPPI	RESSION				
AC suppression joule rating	450				
PHYSICAL					
Shipping weight (lbs)	46.6				
Shipping weight (kg)	21.1				
Cooling method	Multi-speed fan				
Unit Dimensions (HWD/in)	8 x 10.5 x 17.5				
Unit Dimensions (HWD/cm)	20.32 x 26.67 x 44.45				
Shipping Dimensions (HWD/in)	13.5 x 15 x 21.5				
Shipping Dimensions (HWD/cm)	34.29 x 38.1 x 54.61				
Unit weight (lbs)	43.2				

Unit weight (kg)	19.6			
Material of construction	Polycarbonate			
Style	Heavy-duty with built-in battery charger			
Form factors supported	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)			
ENVIRONMENTAL				
Relative Humidity	0-95% non-condensing			
LINE / BATTERY TRAN	ISFER			
Transfer time from line power to battery mode	16.6 milliseconds (typical - compatible with many computers - 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 75V (user adjustable to 85, 98 105V - see manual)			
High voltage transfer to battery power	In AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 135V (user adjustable to 145 - see manual)			
SPECIAL FEATURES				
Appearance	Attractive gray color scheme			
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			
CERTIFICATIONS				
Certifications	Tested to UL458 (USA) and CSA (Canada)			
WARRANTY				
Product Warranty Period (U.S., Canada & Puerto Rico)	30-month limited warranty			

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
Audio Cables	APSRM4	Remote Control Module - for Tripp Lite Inverters and Inverter/Chargers	-
Audio Cables	98-121	12V DC Sealed, Maintenance-Free Battery	-
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.	-

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModeIID=3135.

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