1500W PowerVerter RV Inverter/Charger with Hardwire Input/Output

MODEL NUMBER: **RV1512UL**



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

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-ft. (6.09 m) 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	
UPC Code	037332118981
INPUT	
Nominal Input Voltage(s) Supported	120V AC
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 load (15A max charger-only / combined input load to support charger and AC output is automatically controllable to 66%-33%-0% based on AC output l
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
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
Voltage Compatibility (VAC)	120
Voltage Compatibility (VDC)	12
OUTPUT	
Frequency Compatibility	60 Hz
Pure Sine Wave Output	No
Nominal Output Voltage(s) Supported	120V
Output Receptacles	Hardwire
Continuous Output Capacity (Watts)	1500
Peak Output Capacity (Watts)	3000
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

BATTERY	
Expandable Runtime	Yes
Expandable Battery Runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
Expandable Runtime Description	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	19A / 75A (selectable)
LVC (Low Voltage Cut-Off)	10VDC +/-3%
USER INTERFACE, ALERTS & CONTROLS	
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 APSRM4 accessory (sold separately) in inverter mode.
SURGE / NOISE SUPPRESSION	
AC Suppression Joule Rating	450
PHYSICAL	
Material of Construction	Polycarbonate
Cooling Method	Multi-speed fan
Form Factors Supported	Mounting slots enable permanent placement of inverter on any horizontal surface (see manual for additional mounting information)
Shipping Dimensions (hwd / in.)	12.30 x 21.10 x 13.30
Shipping Dimensions (hwd / cm)	31.24 x 53.59 x 33.78
Shipping Weight (lbs.)	46.29
Shipping Weight (kg)	21.00
Unit Dimensions (hwd / in.)	8.000 x 10.500 x 17.500
Unit Dimensions (hwd / cm)	20.32 x 26.67 x 44.45
Unit Weight (lbs.)	43.2
Unit Weight (kg)	19.60
ENVIRONMENTAL	
Relative Humidity	0%-95% Non-Condensing
LINE / BATTERY TRANSFER	
Transfer Time (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, 95, 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)
FEATURES & SPECIFICATIONS	
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.
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); UL 458
Product Compliance	RoHS
WARRANTY & SUPPORT	
Product Warranty Period (U.S. & Canada)	30-month limited warranty
Product Warranty Period (International)	1-year limited warranty
Product Warranty Period (Mexico)	30-month limited warranty
Product Warranty Period (Puerto Rico)	30-month limited warranty

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