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Model #: UT750UL

750-Watt Utility/Work Truck DC-to-AC Inverter

Highlights

- 12V DC or 120VAC input; 120VAC output; 2 **GFCI** protected outlets
- 750 watts continuous, 1125 watts OverPower and 1500 watts
- DoubleBoost inverter output.
- 3 stage, 45A / 11A selectable wet / gel / AGM cell battery charger
- Built-in Isobar® premium AC surge protection and Auto Transfer
- Switching option for battery backup / UPS operation
- Meets OSHA requirements

Description

Tripp Lite UT750UL Utility Work Truck Inverter / Charger are the quiet alternative to gas generators with no fumes, fuel or noise. 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 work site applications. Supplies up to 750 watts of continuous 120V AC power from any 12 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 out put feature delivers up to 200% of continuous output for up to 10 seconds, providing the extra power needed to 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 3 stage selectable 11/45Amp 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. A set of high current DC input terminals is included for simple installation (user supplies batteries and cabling – see owners 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. Reliable large transformer design, with frequency control, powers resistive electronic loads or large inductive motors, compressors and other devices with high current needs on startup. Included is the APSRM4 wired remote power switch with full status LED's, which provides remote power inverter on/off switching and continuous status information. The UT750UL 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 utility work trucks, conversion vans and fleet service vehicles; a standalone power source for off grid, alternative energy or export applications, emergency home power applications such as sump pumps, and as an uninterruptible power supply (UPS) for items compatible with a 16.6 millisecond transfer time.

Package Includes

- UT750UL Inverter/Charger
- APSRM4 Remote
- Remote battery temperature sensor cable
- Instruction manual with warranty information

Features

- UT750UL 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 120VAC line power source or 12VDC 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.
- 750 watts continuous AC output in inverter mode, 2500 watts continuous AC output in AC mode.
- Double Boost inverter output supports momentary startup loads of up to 200% of the continuous rating for up to 10 seconds.
- OverPower inverter output supports 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 11/45 Amp battery charger with adjustable settings for wet/gel/AGM battery types offers fast, reliable battery recharging.
- Protected hardwire bolt-down input lugs safely accept heavy gauge input wiring from attached battery bank.
- Two built in NEMA 5-15R GFCI protected output receptacles pass 120V line power or inverter output through to connected equipment.
- Reliability enhanced large transformer design tested to UL (USA) and (CSA) Canada standards with secure mounting
- Flanges and protected DC wiring terminals.
- Moisture resistant construction enables vehicular 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 (6) six front panel LED’s display AC/DC operational modes, overload status, DC voltage level, shutdown status and system fault status.
- Set of (4) four configuration dipswitches support wet/gel/AGM battery charging profiles, adjustable 135/145V high voltages and selectable 75/85/95/105V AC low voltage auto transfer during brownouts.
- Set of (4) four 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 10A charger AC input breaker and settable 12A 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, with APSRM4 remote accessory.
- APSRM4 remote 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 a battery temperature sensor with 20 foot cable, to prolong battery life, by adjusting the charge level based on battery temperature.

Specifications

OVERVIEW	
Intended Application	Utility/Long Haul Truck, Emergency Home Power
OUTPUT	
Frequency compatibility	60 Hz
Output watts	750
Continuous output capacity (watts)	750
Peak output capacity (watts)	1500
Output nominal voltage	120V
Output voltage regulation	LINE POWER (AC): Maintains 120V nominal sine wave output from line Source. Inverter Power (AC) Maintains PWM sine wave output voltage of 120 VAC (+/- 5%)
Output frequency regulation	60 Hz (+/- 0.3Hz)

Overload protection	Includes 10A input breaker dedicated to the charging system and 12A output breaker for AC output loads.
Outlet quantity / type	2 AC outlets
Outlet details	2 NEMA 5-15R GFCI protected outlets
INPUT	
Recommended Electrical Service	DC INPUT: Requires 12VDC input source capable of delivering 73A for the required Duration (when used at full continuous capacity- DC requirements increase during Over-Power and Double-Boost operation). AC INPUT: 15A 120VAC recommended.
Maximum input amps / watts	DC INPUT: Full continuous load of 73A at 12 VDC. AC INPUT 29 amps at 120 VAC with full inverter and charger load (9.3A max charger only / combined input load to support charger and AC output is automatically controllable to 66% - 33% - 0% based on AC)
Input connection type	DC INPUT: set of two (2) DC bolt-down terminals. AC INPUT: NEMA 5-15R GFCI input plug
Input cord length details	DC INPUT: User supplies cabling. 6 gauge or larger (see manual) AC INPUT: attached 6ft. AC line cord with plug.
Voltage compatibility (VAC)	120
Voltage compatibility (VDC)	12
BATTERY	
Expandable battery runtime	Runtime is expandable with any number of user supplied wet or gel or AGM type Batteries.
DC system voltage (VDC)	12
Battery Pack Accessory (optional)	98-121 sealed lead acid battery (optional)
Battery recharge rate	11A / 45A (selectable)
LEDS ALARMS & SWITCHES	
Switches	3 position on / off remote switch enables simple on / off power control plus "auto/ remote" Setting that enables distant on / ff control of the inverter system when used in conjunction with APSRM remote (included) when used in inverter mode AC uninterrupt
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 SUPPRESSION	
AC suppression joule rating	450
PHYSICAL	
Shipping weight (lbs)	20.6
Shipping weight (kg)	8.2
Cooling method	Multi-speed fan
Unit Dimensions (HWD/in)	7 x 8.75 x 9
Unit Dimensions (HWD/cm)	17.78 x 22.23 x 22.86
Shipping Dimensions (HWD/in)	12.5 x 11 x 10.75

Shipping Dimensions (HWD/cm)	31.75 x 27.94 x 27.31
Unit weight (lbs)	17.4
Unit weight (kg)	7.9
Material of construction	Polycarbonate
Receptacle Color	White
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 TRANSFER	
Transfer time from line power to battery mode	16.6 milliseconds (typical -compatible with many computers, servers and networking equipment-verify transfer time compatibility 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 85,95,105 - see manual)
High voltage transfer to battery power	In AC "auto" mode, inverter / charger switches to battery mode as line voltages increases to 145V (user adjustable to 145 - see manual)
SPECIAL FEATURES	
Load Sensing	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.
Remote control capability	Yes
CERTIFICATIONS	
Certifications	Tested to UL 458 (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.
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.	-
Inverter Accessories	APSRM4	Remote Control Module - for Tripp Lite Inverters and Inverter/Chargers	-
Replacement Batteries	98-121	12V DC Sealed, Maintenance-Free Battery	-

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=3604.