



## **INVERTER 1500 WATTS**



### **DESCRIPTION**

Model INT1500W DC-to-AC inverter with auto line-to-battery transfer and integrated charging system serves as an extended run UPS, a stand alone power source or an automotive inverter. This model supplies up to 1500 watts of continuous 230V AC power from a 24 V battery set or automotive DC source. When hardwire input AC cable is connected, power passes through the connected equipment and the battery set is recharged via 3 stage, 10/30 amp selectable charging system. In UPS mode, the system responds to blackouts and brown outs with an uninterrupted transfer to battery-derived AC output. It includes a set of high current DC input terminals for simple installation. Reliable large transformer design with efficient output and frequency control powers resistive electronic loads or large inductive motors, compressors and other items with high current needs on start-up. 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.

### **TYPICAL APPLICATIONS**

- Extended Run UPS-Configure as a UPS for long-term battery support of telecom systems, security alarms, computer systems and various other motorized and electronic loads.
- Stand alone Power -Alternative power source for use in off-grid, alternative energy and export applications where commercial power is not continuously available.
- Automotive-Connect to an automotive electrical system to run power tools, computers, electronic test equipment, home entertainment and other AC appliances in fleet service vehicles, over-the-road trucks, campers, RVs, mini vans and more.

### **PRODUCT OVERVIEW**

- 24V DC to 230V AC / 50 Hz power inverter
- 3000 watts peak (1500 watts continuous), hardwire input & output
- 3 stage, 10/30 amp selectable wet/dry cell battery charger
- Auto line to battery transfer enables UPS protection during blackouts
- Compatible with marine, automotive, telecom, computer, emergency and a variety of other applications

### **FEATURES**

- Functions as an extended run UPS system, stand alone power source and automotive inverter
- Includes hardwire AC input and auto-transfer to enable battery charging and automatic UPS support for blackouts and brownouts
- 1500 watts continuous output power; provides up to twice this rating for momentary startup of inductive loads
- Battery run time is dependent upon the size and number of user-supplied batteries in 24V configuration
- Hardwire input and output connections supported, DC input terminals for 24V battery connection
- Converts 24V DC to 230V AC
- Frequency control for operating stability
- Advanced 10/30 amp selectable, 3-stage battery charger and selector switch for gel or wet cell batteries
- Resettable circuit breaker protects APS against system overload with allows user to select between off, auto-invert and charge-only settings
- 6 diagnostic LEDs indicate AC present, on battery, over load, & battery voltage level (high, medium, & low)
- Configuration switches to allow the user to select the high and low voltage for the unit to automatically transfer from AC power to battery backup
- Coated internal circuit boards offer continuous operation in humid environments (0-95%, non-condensing)
- LRJ45 port allows connection of remote switch
- Allows unlimited runtime capability by allowing the use any number of user-supplied batteries

## SPECIFICATION

### SYSTEM OVERVIEW

System overview:	Reliable 24VDC to 230VAC power inverter system serves as an automotive inverter, a battery charger and an uninterruptible power supply. Extended runtime capable with any number of user supplied batteries. 1500 watts continuous / 3000 watts peak. Requires hardwire input & output connection.
Voltage compatibility:	24VDC / 230VAC
Frequency compatibility:	60 Hz

### OUTPUT

Output watt capacity (watts):	Continuous - 1500 watts, Overpower (up to 1 hour) - 2250 watts, Double-Boost wattage (up to 10 seconds) - 3000 watts
Output nominal voltage:	LINE POWER (AC): Maintains 230V nominal sine wave output. INVERTER POWER (AC): Maintains PWM sine wave output voltage of 230 VAC (+/-5%). DC CHARGER OUTPUT (See battery recharge rate section)
Output voltage regulation:	
Output frequency regulation:	50 Hz (+/- 0.3 Hz)
Outlet quantity / type:	Hardwire AC output
Overload protection:	Includes 10A input breaker dedicated to the charging system and 7A output breaker for AC output loads

### INPUT

Maximum input amps / watts:	DC INPUT: Full continuous load - 70A at 24VDC. AC INPUT: 13.5 amps at 230VAC with full inverter and charger load
Input connection type:	DC INPUT: Set of 2 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 recommended. AC INPUT: user supplies hardwire input cabling
Recommended electrical service:	DC INPUT: Requires 24VDC input source capable of delivering 70A for the required duration (when used at full continuous capacity). For automotive applications, professional hardwire installation with 90A minimum battery system fusing is recommended.

### BATTERY

DC system voltage:	DC input operating range 20-30VDC.
Battery recharge rate:	Includes selectable 7.5 / 30 amp DC charging system with selectable profiles for vented wet cell and sealed gel cell batteries. Optional use battery equalize charge function equalizes the charge level when used with multiple batteries (see manual for detailed charger information).
Expandable battery runtime:	Runtime is expandable with any number of user supplied wet or gel type batteries

### LEDS ALARMS & SWITCHES

Front panel LED's:	Set of 6 LED's 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 APSPVREMOTE 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.

### SURGE / NOISE SUPPRESSION

AC surge suppression:	AC Surge suppression not included
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### PHYSICAL

Shipping weight (lbs):	34.8
Shipping weight (kg):	15.8
Unit weight (lbs):	28.8
Unit weight (kg):	13.1
Unit Dimensions (HWD/in):	7.25 x 8.5 x 16
Unit Dimensions (HWD/cm):	18.4 x 21.6 x 40.6
Shipping Dimensions (HWD/in):	13.5 x 15 x 21.5
Shipping Dimensions (HWD/cm):	34.3 x 38.1 x 54.6
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:	Fan

### ENVIRONMENTAL

Operating Temperature:	32-104 Fahrenheit / 0-40 Celcius
Relative Humidity:	0-95% non-condensing

### LINE / BATTERY TRANSFER

Transfer time from line power to battery mode:	4-6 milliseconds
Low voltage transfer to battery power:	User configurable to 144V, 163V, 182V & 201V
High voltage transfer to battery power:	User configurable to 259-278V

### WARRANTY

Product warranty:	(Call for warranty information)
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### SPECIAL FEATURES

Appearance:	Black color 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.
Load Sensing:	

### BATTERY PACK ACCESSORY (optional)

Battery Pack Accessory (optional):	98-121 sealed lead acid battery (optional)
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Errors expected and possible alterations without prior notice.

**GREEN ENERGY LLC / GESOLAR FZ LLC**

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