



INVERTER 1250Watts



DESCRIPTION

Model INT1250DC-to-AC inverter with auto line-to-battery transfer and integrated charging system serves as an extended run UPS. These inverters also known as power inverters accommodate "peak surge" demands by delivering more output power than their stand alone power source or an automotive inverter. The Model supplies up to 1250 watts of continuous 230 V AC power to 2 AC outlets from any 12V battery or automotive DC source. When AC cable is connected to a live wall socket, power passes through to the connected equipment and the battery set is recharged via 3 stage, 30 amp charging system. In UPS mode, the system responds to black outs and brown outs with an uninterrupted transfer to battery-derived AC output. Includes a set of high current DC input terminals for simple installation. It has a 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. The model 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, settings for wet/ gel battery types and selectable line to battery power transfer voltages. A Double Boost feature provides up to 200% of the continuous output for up to 10 seconds, providing the extra power needed to coldstart heavy-duty tools and equipment. An Over Power feature delivers up to 150% of the continuous output for up to 1 hour.

TYPICAL APPLICATIONS

- Extended Run UPS — Configure as a UPS for long-term battery support of telecom systems, security alarms, computer systems and various other 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.

OVERVIEW

- 12V DC to 230V AC / 50 Hz power inverter
- 2500 watts peak (1250 watts continuous), 2 AC outlets
- 3 stage, 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

FEATURE

- Function as an extended run UPS system, stand alone power source and automotive inverter
- Includes AC input cord and auto-transfer to enable battery charging and automatic UPS support for blackouts & brownouts
- 1250 watts continuous output power (while inverting); provides up to twice this rating for momentary startup of inductive loads. Provides 1380 watts of power while passing through utility AC; the pass through power the model can supply is limited by the facility/vehicle circuit board which the model is connected to.
- Battery run time is dependent upon the size and number of user-supplied 12-volt batteries used
- 2 outlets; 1.8 m (6-ft.) AC power cord; DC input terminals for 12V battery connection
- Converts 12 volt DC to 230 volt AC
- Frequency control for operating stability
- Advanced 30 amp, 3-stage battery charger and selector switch for gel or wet cell batteries
- Resettable circuit breaker protects against system overload
- Switch allows user to select between off, auto-invert and charge-only settings
- 6 diagnostic LEDs indicate AC present, on battery, overload, & battery voltage level (high, medium, & low)
- Configuration switches to allow the user to select the 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)
- RJ45 port allows connection of Remote Switch

SPECIFICATION

SYSTEM OVERVIEW

System overview:	Reliable 12VDC 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. 1250 watts continuous / 2500 watts peak. 2 AC outlets.
Voltage compatibility:	12VDC / 230VAC
Frequency compatibility:	50 Hz

OUTPUT

Output watt capacity (watts):	Continuous - 1250 watts, Overpower (up to 1 hour) - 1875 watts, Double-Boost wattage (up to 10 seconds) - 2500 watts
Output nominal voltage:	AC OUTPUT: 230VAC nominal, DC CHARGER OUTPUT (DC): 12VDC nominal
Output voltage regulation:	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 frequency regulation:	50 Hz (+/- 0.3 Hz)
Outlet quantity / type:	Includes 2 AC outlets (IEC320 C13). Includes universal receptacle adapter compatible with multiple international plug sets
Overload protection:	Includes 5A input breaker dedicated to the charging system and 6A output breaker for AC output loads

INPUT

Input connection type:	DC INPUT: Full continuous load - 125A at 12VDC. AC INPUT: 9.3A at 230VAC with full inverter and charger load
Input cord length:	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: IEC-320 C14 inlet connection
Recommended electrical	DC INPUT: User supplies cabling. 6 gauge or larger recommended. AC INPUT: IEC-320 C14 inlet, ships with 1.8 m (6 ft.) IEC C13-C14 AC line cord
	DC INPUT: Requires 12VDC input source capable of delivering 125A for the required duration (when used at full continuous capacity). For automotive applications, professional hardwire installation with 225A minimum battery system fusing is recommended. AC INPUT: 230VAC

BATTERY

DC system voltage:	DC input operating range 10-15VDC.
Battery recharge rate:	Includes 30 amp DC charging system with selectable profiles for vented wet cell and sealed gel cell 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 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 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):	26
Shipping weight (kg):	11.8
Unit weight (lbs):	24
Unit weight (kg):	10.9
Unit Dimensions (HWD/in):	7 x 8.75 x 9
Unit Dimensions (HWD/cm):	17.8 x 22.2 x 22.8
Shipping Dimensions (HWD/in):	12.5 x 11 x 10.75
Shipping Dimensions (HWD/cm):	31.8 x 27.9 x 27.3
Material of construction:	Polycarbonate
Form factors supported:	Mounting slots enable permanent placement of APSX1250 on any horizontal surface (see manual for additional mounting information)
Cooling method:	Fan

ENVIRONMENTAL

Operating Temperature:	32-104 Fahrenheit / 0-40 Celsius
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

WARRANTY

Product warranty:	(Call for warranty information)
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SPECIAL FEATURES

Appearance:	Black color
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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.

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