INVERTER 2400 WATTS

DESCRIPTION

The Model INT2400W function DC-to-AC inverter with autoline-to-battery transfer and integrated charging system serves as extended run UPS, a stand alone power source or an automotive inverter. Supplies up to 2400 watts of continuous 230V AC power from a 24V battery to automotive DC source.When hardwire input AC cable is energized, commercial power passes through to connected equipment and the battery set is recharged via 3stage,30 amp charging system.InUPS mode,the system responds to blackouts and brownouts with an uninterrupted transfer to battery-derived AC output.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 startup.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 for wet/gel battery types and selectable line to battery power transfer voltages.

TYPICAL

- 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 anautomotive electrical system to run power tools,computers,electronic test equipment, home entertainment and other AC appliances in fleet service vehicles,over-the-roadtrucks, campers,RVs,mini vans and more.

OVERVIEW

- 24V DC to 230V AC / 50 Hz power inverter
- 4800 watts peak (2400 watts continuous)
- 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

- 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
- 2400 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 24VDC to 230VAC
- Frequency control for operating stability
- Advanced 30amp,3-stage battery charger and selector switch for gel or wet cell batteries
- Reset table circuit breaker protects APS 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, & batteryvoltage 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)
- RJ45 por tallows connection of remote switch
- Allows unlimited runtime capability by allowing the use any number of user-supplied batteries

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SPECIFICATION

SYSTEMOVERVIEW

Systemoverview:	Reliable24VDCto230VACpowerinverter system serves as an automotive inverter, a battery charger and an uninterruptable power supply. Extended runtime capable with any number of user supplied batteries. 1500watts continuous / 3000watts peak.Require s hardwire input&output connection.
Voltage compatibility:24VDC / 230VAC	
Frequencycompatibility:60Hz	

OUTPUT

Output wattcapacity (watts):	Continuous - 1500 watts, Overpower (up to 1 hour) - 2250 watts, Double-Boost wattage (up to 10 seconds) - 3000 watts
Outputnominalvoltage:	LINEPOWER(AC):Maintains230Vnominalsinewaveoutput.INVERTER
Outputvoltage regulation:	POWER (AC): Maintains PWM sine wave output voltage of 230 VAC (+/-5%). DC CHARGER OUTPUT (See battery recharge rate section)
Outputfrequencyregulation:50Hz(+/-0.3Hz)	
Outlet quantity/type: HardwireACoutput	
Overload protection:	Includes 10A input breaker dedicated to thecharging systemand 7A output breakerforACoutputloads

INPUT

Maximum inputamps / watts:	DC INPUT: Full continuous load - 70A at 24VDC. AC INPUT: 13.5 amps at 230VAC with full inverter and charger load
Inputconnectiontype:	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: Hardwire via built in junction box with cover plate
Inputcordlength:	DCINPUT:Usersuppliescabling.8gaugeorlargerrecommended.AC INPUT:user supplies hardwire input cabling DC INPUT:Requires24VDCinput sourcecapable of delivering70A for the requiredduration(whenused atfull continuouscapacity).Forautomotiveapplicat ions,professional hardwire installationwith90A minimumbattery systemfusingisrecommended.

BATTERY

DCsystemvoltage:DCinput operating range20-30VDC.	
Batteryrechargerate:	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 fordetailedchargerinformation).
Expandablebatteryruntime:	Runtime is expandable with any number of user supplied wet or gel type batteries

LEDSALARMS&SWITCHES

FrontpanelLED's:	Set of 6 LED's offer continuous status information on load percentage (6 levels reported) and battery charge level(7levelsreported).Seemanual forsequences.
Switches:	3positionon/off/remoteswitchenablessimpleon/offpowercontrolplus "auto/remote" settingthat enables distant on/off control of the inverter system when used in conjunction with optional APSPV REMOTE accessory when used in inverter mode. In AC uninterruptable power mode,"auto/remote" setting enables automatic transfer from line power to battery power - to maintain continuous AC power to connected loads.

SURGE/NOISESUPPRESSION

ACsurgesuppression:AC surgesuppressionnot included

PHYSICAL

Shipping weight (lbs):42

Shipping weight (kg):19.5

Unit weight(lbs):39

Unit weight (kg):17.7

Unit Dimensions(HWD/in):7.25x8.5x16.25

Unit Dimensions(HWD/cm):18.4x21.6x41.3

ShippingDimensions(HWD/in):13.5x15x21.5

ShippingDimensions(HWD/cm):34.3x38.1x54.6

Material of construction:Polycarbonate

Form factorssupported:	Mountingslotsenablepermanent placement of inverter on any horizontal surface (see manual for additional mountinginformation)
Cooling method:	Fan

ENVIRONMENTAL

OperatingTemperature:32-104 Fahrenheit / 0-40 Celsius

Relative Humidity:0-95%non-condensing

LINE/BATTERYTRANSFER

Transfertimefromlinepowerto battery mode:	4-6milliseconds
Low voltagetransferto battery power:	Userconfigurableto144V,163V,182V&201V
High voltage transfer to battery power:	Userconfigurableto259-278V

WARRANTY

Productwarranty:(OutsidetheU.S.andCanada,callforwarrantyinformation)

SPECIALFEATURES

Appearance:	Black color
LoadSensing:	As connected equipment is powered off and on. Front panell and sense potentiometer can be set to shutoff or turnon inverter power in response to loads of any level,up to150watts.

BATTERYPACKACCESSORY(optional)

BatteryPackAccessory(optional):98-121 sealed lead acid battery (optional)

* Errors expected and possible alterations without prior notice.

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