



# VSP-450AH

The VSP-450AH GENERATOR is a power system that can supply up to 7000 W of household electricity and is an excellent alternative to a gas or diesel generator. It's quiet and has no fumes, fuel or moving parts, making it safe for indoor



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An excellent alternative to a gas or diesel generator. It's quiet and has no fumes, fuel or moving parts – making it safe for indoor use.

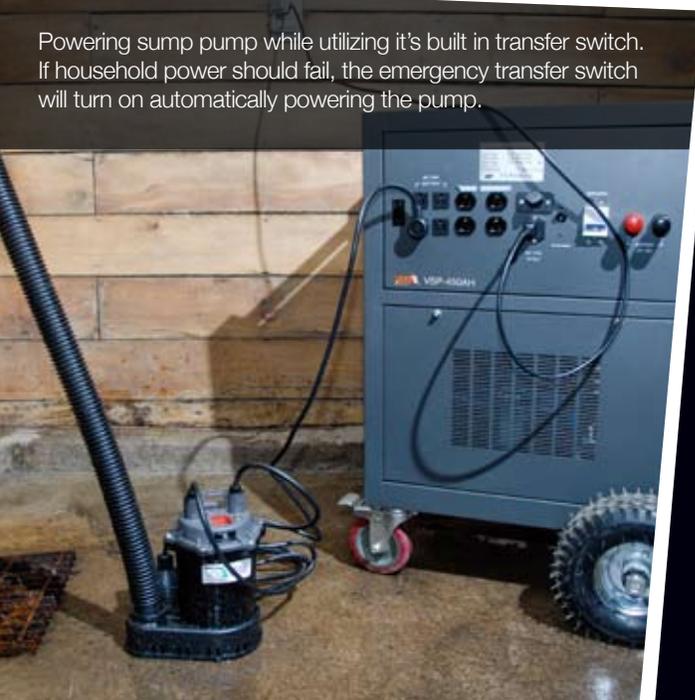
use. This mobile workhorse can also be used outdoors, and operates a wide variety of electronics including communication devices, power tools, full-size appliances and more.

The VSP-450AH power system consists of a battery pack that stores electricity, advanced electronics that convert 12 volts of DC power from the battery pack to household power, an AC power panel that contains four standard outlets, and a DC power panel that is used to operate 12 volt products. Combined in a rugged cart, the VSP-450AH generator can be easily wheeled from room-to-room or outdoors over rough terrain.

## PRODUCT FEATURES

- 7000 watts of power
- Noise and pollution free
- Maintenance free
- Clean, safe, reliable, silent power
- Environment safe
- Safe for all medical devices and sensitive electronics
- Renewable energy source
- Fully portable power source
- Boost cycle - lets you boost start a vehicle with the cables supplied
- Link circuit - lets you connect 2-20 more generators together to multiply the power.  
Example – one generator has 450 amps of power, connect another one with the supplied cable by simply plugging one end to the link plug in on the first generator and the other end into the 2nd generator and now you have 900 amps of power and all your run times will be doubled
- 2000 watt inverter
- Built in transfer switch
- Autowalk system

Powering sump pump while utilizing its built in transfer switch. If household power should fail, the emergency transfer switch will turn on automatically powering the pump.





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## PRODUCT FEATURES (CON'T)

- 50 amp AC battery charger
- Renewable energy source plug in for the optional whirlybird wind generator or or the solar charge kit
- 12 V DC plug in for charging the generator from any vehicle or rv with the supplied cigarette lighter cord.
- Operates 120 V AC or 12 V DC products anywhere 220 V AC optional
- Two 12 volt 225 amp deep cycle sealed lead acid batteries
- High surge protection and automatic over-temperature and overload shutdown
- Low voltage alarm and shutdown prevents deep battery discharge
- Digital display confirms charge level, power consumption, if transfer switch is active, AC charge, and AC voltage output. High power 12 V DC connector
- Four three-prong AC outlets
- Built in transfer switch

## ACCESSORIES

- Whirlybird wind generator system
- Vehicle solar charge kit system
- 12 volt DC charge cable for charging from a vehicle or RV (supplied)
- 12 volt DC link cable for connecting multiple generators together (supplied)
- 12ft of 6 gauge booster cables (supplied)

AC plugin which charges the system as well as activates the transfer switch.



Solar charge kit plugged into unit



VSP-Whirlybird

## APPLICATIONS

**Emergency power:** operates essential appliances such as a fridge, cordless and cell phone, radio, fan, lamp, home security system, microwave, sump pump and more

**Work productivity:** operates power tools such as a drill, belt sander, circular saw and more; powers communication devices such as a laptop, desktop and monitor, printer, fax machine and more

**Indoor and outdoor recreation:** operates a TV, blender, video game console, portable cooler, coffee maker and more





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## PRODUCT SPECIFICATIONS

### 120 V AC / Optional 220 V AC

AC output power (continuous) 3000 W  
 AC output surge capacity (peak) 5000 W  
 AC output voltage 120 V AC  
 AC output frequency 60 Hz  
 AC output waveform Modified Pure Sine Wave  
 Inverter no-load current 0.50 amps

### 12 V DC

Internal battery type 2, 12 volt deep cycle sealed lead-acid  
 Internal battery capacity 450 amp hours  
 Internal battery voltage 6 volt wired to internal battery  
 voltage 12 volt

DC power socket (circuit breaker) 12 amps

*Note: Specifications may change without notice.*

## PRODUCT SPECIFICATIONS

Weight: 300 lb (125 kg)  
 Dimensions: 21.75 x 15.75 x 33.75" (54.4 x 39.4 x 84.4 cm)  
 Warranty: 12 months

## CHARGING SYSTEM

AC charger bulk charging current 50 amps  
 Peak charging voltage 14.4 V DC  
 Float charge voltage 13.6 V DC  
 Charger input socket current 12 amps

*Note: Recharging time is based on using the supplied 50 amp charger, or charging from a vehicle lighter socket.*

BATTERY DISCHARGE LEVELS	100%	75%	50%	25%
Recharging time from 120 V AC (home)	9 h	7 h	4.5 h	2 h
Recharging time from 12 V DC (vehicle)	12-14 h (100% discharge)			

*Note: Recharging time is based on using the supplied 10 amp charger, or charging from a vehicle lighter socket.*

OFFICE APPLICATIONS	WATTS	RUNTIME <sup>1</sup>
Laptop	25	95 hr
Desktop computer	67	35 hr
20" LCD monitor	52	44 hr
Wireless modem/router	6	380 hr
Inkjet printer	8	290 hr
Table lamp	40	60 hr

<sup>1</sup>Runtime as measured on tested load.



Digital Display

EMERGENCY POWER APPLICATIONS	WATTS	RUNTIME
Cordless phone	5	490 hr
Clock radio	8	290 hr
13" CRT TV	45	56 hr
20" LCD TV	75	36 hr
18 cu. ft. fridge	120	20 hr
8.8 cu. ft. Freezer	80	30 hr
Sump pump 1/2 hp	300	10 hr
Home alarm system	5	490 hr
Microwave	1000	3.6 hr
7 1/4 circular saw	800	4 hr
3/8 corded drill	250	11 hr
Jigsaw	150	16 hr
Furnace fan	300	10 hr
Window air conditioner	800	4 hr



# VSP-450AH



Solar charge kit plugged into 450AH



VSP-450AH being recharged by vehicles powerpoint



Unit in use



Boost cycle



Auto walk control