

MODEL 360

The **Model 360** converter makes it possible to install equipment, designed to operate in 12 Volt vehicular systems, into vehicles with 24 Volt electrical systems.

The design technology of the **Model 360** converter affords the user 360 Watts of output power in a highly efficient compact module weighing less than five pounds. Efficiency translates into cool operation, high reliability and long life expectancy for the converter and the equipment which it is intended to power.

Model 360's design makes performance possible over an extremely wide operating temperature range and under the most rigorous vibration and shock conditions. Its compactness and light weight permit it to be installed anywhere in the vehicle. Its ruggedness is further enhanced by weatherproofing, and electronic protection against abnormal hookups, and output overloads.

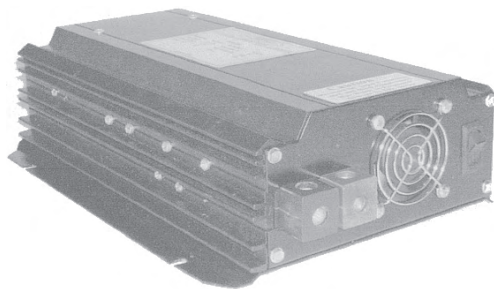
Model 360 is designed for use on vehicles with **negative grounded systems only**.

SPECIFICATIONS:

Input Voltage Range:	22 to 29 VDC
Maximum Input Current:	20 ADC
Output Voltage:	13.6 and 13.8 VDC +,-0.1 VDC (factory adjusted)
Output Current:	0-30 Amps DC
Output Regulation:	<0.1 V
Output Ripple Voltage:	<50 mV Rms
Efficiency:	>91%
Short Circuit Protection:	Electronically protected—unit will operate continuously into a short circuit without sustaining damage

Operating Temperature Range: -20°C to +65°C

Cat. No.	Peak Rating (Amps)	Continuous Rating (Amps)	Unit Wt. (lbs.)	Size (Inches) L x W x H	Net Price
360	30	30	4.7	8 x 7 x 3-3/4	\$402.16



INVERTERS—MS SERIES

MS Inverters are compact and efficient units designed to suit numerous applications.

Their specifications incorporate wide safety margins allowing for extreme overload operation for short periods. Inverter circuitry allows for tight regulation of the AC output under a wide range of input voltage and output load current. Other desirable features include operation interruption during low or high inverter input voltage and thermal overload protection. Sound mechanical design incorporates the observation of minimum safety spacing requirements ideally suiting them for UL and CSA listing. Efficiency and light weight make the MS Series of Inverters among the coolest operating units of their kind.

SPECIFICATIONS COMMON TO ALL MS & PS MODELS:

Inverter Power Surge:	120% of Continuous Rating
Efficiency:	85%-90% depending on input voltage
Output Wave:	Modified Sine Wave
Output Regulation:	3%-5%, No Load to Full Load

APPLICATIONS:

Computers	Power Tools
Communication Equipment	Microwave Ovens
Industrial Controls	Refrigerators
Video Equipment	Fax Machines

Cat. No.	Output Watts (max.)	Input Volts	Input Amps (Max.)	Wt. (lbs.)	Dimensions Inches	Net Price
412MS	400	12	41	4	3.5 x 8.5 x 10	\$551.80
424MS	400	24	19	4	3.5 x 8.5 x 10	551.80
812MS	800	12	80	8	3.5 x 8.5 x 15	688.35
824MS	800	24	38	8	3.5 x 8.5 x 15	772.52
1012MS	1000	12	98	8	3.5 x 8.5 x 15	591.08
1024MS	1000	24	46	8	3.5 x 8.5 x 15	735.70
1612MS	1600	12	165	14	3.5 x 10.5 x 20	1325.92
1612MS	1600	24	79	14	3.5 x 10.5 x 20	1325.92



SINE WAVE CONVERTERS SSV SERIES

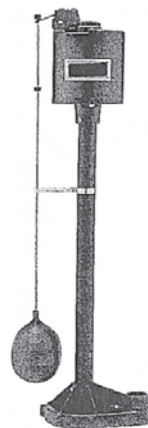
APPLICATIONS:

- Solar power systems
- Mobile office (TV & Radio Vans)
- Industrial control (OEM)
- Electric utilities and substations
- Medical devices
- Emergency backup power
- Security systems
- Computer, printer, monitors, and fax machines

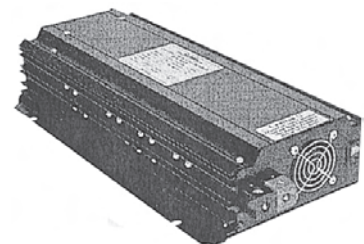
Cat. No.	Input Voltage VDC	Output Frequency	Output Power Continuous	Dimensions (Inches) L x W x H	Weight (lbs)	Net Price
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OUTPUT VOLTAGE: 115 VAC ± 3%

SSV600-12	10-15	60Hz	600A	13.25 x 9.5 x 3.5	6.6	\$800.00
SSV600-24	20-30	60Hz	600A	13.25 x 9.5 x 3.5	6.6	725.31
SSV1000-12	10-15	60Hz	1000A	15.5 x 9.5 x 3.5	8.8	800.00

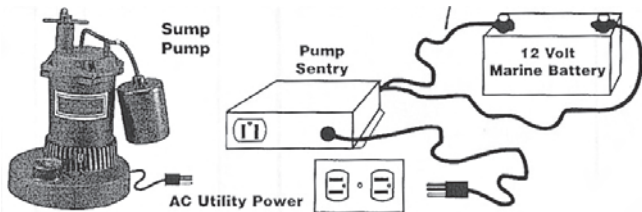


MODEL 1612PS



MODEL 812PS

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HERE IS HOW THE PUMP SENTRY WORKS

PUMP SENTRY CLEAN, FULLY AUTOMATIC, INSTANT EMERGENCY POWER FOR SUMP AND IMMERSIBLE PUMPS

Pump Sentry interfaces between pumps and the AC electrical supply.

When electricity is available, Pump Sentry charges a battery and monitors the power line to detect a power outage. At the instant that power failure occurs, Pump Sentry draws the energy stored in the battery and converts it to AC power. This AC power is automatically channeled to the pumps to maintain their operation in the absence of electricity.

When AC utility power is restored, the Pump Sentry reinstates AC utility power as the prime energy source to operate the pumps. Simultaneously and automatically Pump Sentry commences the recharging of the battery, to return it to full capacity in preparation for the next power failure.

A deep cycle marine battery with 180 minutes reserve capacity will maintain the operation of a 1/3 Hp. column sump pump continuously for four to six hours. If more time is desired a larger battery or multiple batteries can be used. The operating time is directly proportional to the battery reserve capacity.

TWO PUMP SENTRY MODELS FROM WHICH TO CHOOSE

Electrical Specifications	Model S12PS	Model 1612PS
NORMAL MODE OPERATION:		
Input Voltage	100-128 VAC	100-128 VAC
Input/Output Current (max.)	11 A Continuous	16 A Continuous
On Motor Start Up	15 A Peak	22 A Peak
Max. Battery Charging Current	12 A	12 A
Max. Recharge Time (For recharging a 180 minute reserve battery that has been depleted to 10.5 Vdc).	13 Hrs.	13 Hrs.
BACK UP MODE OPERATION:		
Maximum Back Up Power	1200 Watts Cont.	1600 Watts Cont.
Maximum Input Current	120 A Cont.	180 A Cont.
Size: (inches)	3H x 8W x 17L	3H x 8W x 21L

Model 812PS will operate most pumps whose continuous current draw does not exceed 11 A.

Model 1612PS will operate most pump combinations whose continuous current draw does not exceed 16 A.

PUMP SENTRY SELECTOR GUIDE**

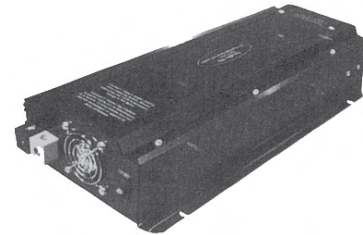
Manufacturer	Pump Model	812PS	1612PS
SUBMERSIBLE TYPES			
Hydromatic	SD 25A	X	X
Jacuzzi	3SPP	X	X
Stevens	SS45F	X	X
Zoeller	M53	X	X
Tecumseh	T157	X	X
COLUMN TYPES			
Any Brand		X	X

**Models other than those listed above may operate properly with Pump Sentry.

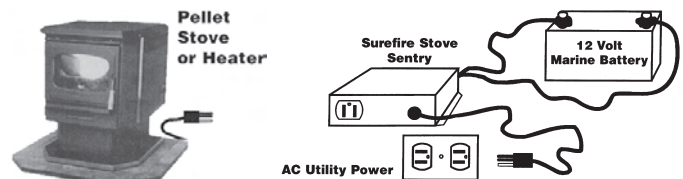
Cat. No.	Net Price
812PS	\$1000.03
1612PS	1000.03



SF502



503A



SUREFIRE STOVE SENTRY FOR PELLETT STOVES AND KEROSENE HEATERS (WHEN YOUR POWER QUITS!!—STOVE SENTRY TAKES OVER)

At Last!—The Missing Link—The Surefire Stove Sentry is designed to back-up or replace utility power. When it is used with a common 90 A-hr. marine battery, its highly efficient circuitry provides approximately 8 hours of operation from a pellet stove or 4 hours from a kerosene heater in the absence of electricity. **Here is How it Works**—The Surefire Stove Sentry interfaces between a pellet stove or kerosene heater and the AC electrical supply. When electricity is present the Surefire Stove Sentry charges a battery and surveys the power line. At the instant that a power failure occurs, the Surefire Stove Sentry converts the energy stored in the battery to AC power. This assures operation of the pellet stove or kerosene heater without interruption during the absence of electricity. When AC utility power is restored, the Surefire Stove Sentry reinstates AC utility power as the prime energy source to operate the pellet stove or kerosene heater. Simultaneously and automatically the Sure Stove Sentry commences the recharging of the battery, to return it to full capacity in preparation for the next power failure.

FEATURES:

Normal Mode Operation

Input voltage range: 100-128VAC
Input current (max): Model SF502-4A, Model 503A-7A
Charging current (max): 12A
Recharge time (max): 13 hours
(FOR 90 A-HR. BATTERY DISCHARGE TO 10.5 VDC)

Backup Mode Operation

Maximum backup power: Model SF502-450 watts, Model 503A-50 watts
Maximum input current: Model SF502-40A, Model 503A-70A

Cat. No.	Net Price
SF502	\$430.22
503A	746.09