



DC TO AC POWER INVERTERS INSTRUCTION MANUAL

	SPI 160	SPI 300	SPI 500	SPI 1000
Voltage In	12VDC			
Voltage Out	115VAC			
Continuous Power	160W	300W	500W	1000W
Peak power (1 Cycle)	300W	600W	1000W	2000W
Output Frequency	60Hz			
Output waveform	Modified Sine Wave			
No Load current	0.15A	0.3A	0.6A	0.8A
Fuse	20A	30A	30Ax2	30Ax3
Weight	0.48Kgs	0.8Kgs	1.1Kgs	1.95Kgs
Dimension(LxWxH)	155x75x40mm	150x105x45mm	200x130x60mm	265x150x60mm

INTRODUCTION:

Now you can operate most AC appliances such as electric tools, computers, fax machines and portable TV's from the 12VDC current supplied by your 12V battery. This fully portable unit gives you a standard AC outlet anywhere your car or home is.

FEATURES:

- Low Battery alarm and auto shutdown
- Overload and short circuit protection
- Input polarity reverse protection by fuse
- Compact size, light weight and high efficiency
- High surge current capability easy to start TV, motor and other Inductive loads
- Operate most AC powered electronic equipment

INSTALLATION INSTRUCTIONS:

1. Direct connected to 12-15VDC battery source.
2. Plug equipment into the AC receptacle of this unit.
3. Turn equipment on.

CAUTION : Do not open the unit. Serious Shock Hazard. There are no user serviceable parts inside the unit. Refer all servicing to qualified service personnel.

IMPORTANT NOTES:

- 1. EQUIPMENT LOAD-** The unit has a built-in protect circuit. It will automatically shut down if it is overload, and will restart once the overload is removed. This unit under continuous power will not operate most power tools, and appliances which produce heat, such as hair dryer, microwave ovens and toasters.
- 2. LOW VOLTAGE CONDITION-** When input voltage decrease to 10.5v, the unit will alarm with audible sound. It indicates that the battery is weak energy now. When input voltage decrease to 10V, the output will cut off, prevent to exhausted the battery energy.
- 3. BATTERY POLARITY-** The input cigarette plug outside is negative, center is positive, So the unit is used in a negative ground vehicle, should not be used in positive ground vehicle. When using external DC 12v battery the polarity don't be reverse, or the fuse will broken.
- 4. DISPERSION OF HEAT-** The unit will get warm during normal operation. This indicates that the unit is functioning correctly. The amount of heat generated will vary with the power draw of the equipment being operated. In order for proper heat dispersion to occur, make sure that air is allowed circulate freely around the unit. A fan is helpful in cases where the unit is operating at maximum power output or extended period.
- 5. WHEN USING CAR BATTERY-** To prevent a vehicle battery from discharging below the voltage required to start the motor, we recommend that the operator start the vehicle every 2-3 hours to recharge the battery system. The unit may be used either while the engine is running or turned off. However, do not start a vehicle's engine with the unit in use.
- 6. OPERATION WITH TV SETS-** Most TV sets with high starting currents, the unit has a special auto starting TV circuit, so it can easy to starting a TV sets, If the TV set can't start, please push the power switch on and hold it, till the TV working then release it. The unit shielded and filtered to minimize interference with TV signals, In some cases, particularly with weak TV signals, some interference may still be visible. NOTE: Try to keep the unit far away from the antenna or adjust the position and angle between each other, to minimize the interference.
- 7. EXTENSION CORDS-** The use of extension cords from the AC outlet will not significantly decrease the power supplied by the unit. However, for the best operating results, an extension cord of less than 60 feet is recommended.

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