

MODIFIED SINE WAVE INVERTER

USER'S MANUAL

INMSW 50 12/115 or 24/115
INMSW 80 12/115 or 24/115
INMSW 100 12/115 or 24/115
INMSW 150 12/115 or 24/115
INMSW 300 12/115 or 24/115
INMSW 500 12/115 or 24/115
INMSW 1000 12/115 or 24/115
INMSW 1200 12/115 or 24/115
INMSW 1800 12/115 or 24/115
INMSW 2500 12/115 or 24/115



Introduction & Features

INTRODUCTION

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

SPECIFICATIONS:

MODEL	KV50	KV80	KV100	KV150	KV300
ITEM					
VOLTAGE IN	12VDC or 24VDC				
VOLTAGE OUT	115VAC	100V/115V/220V/230V/240VAC			
CONTINUE POWER	50W	80W	100W	150W	300W
PEAKPOWER	100W	150W	200W	300W	600W
OUTPUT FREQUENCY	50Hz or 60Hz				
OUTPUT WAVE FORM	MODIFIED SINE WAVE (MSW)				
NO LOAD CURRENT DRAW	0.1A	0.1A	0.1A	0.2A	0.4A
EFFICIENCY	90%				
FUSE	10A	10A	20A	20A	30A
WEIGHT	0.28Kgs or .62lbs	0.28Kgs or .62lbs	0.45Kgs or .99lbs	0.48Kgs or 1.56lbs	.8Kgs or 1.76lbs
DIMENSION	115X60X35mm (LxWxH)	100X60X35mm (LxWxH)	135x75x40mm (LxWxH)	155x75x40mm (LxWxH)	150x105x45mm (LxWxH)

Special Notes

SAFETY PRECAUTIONS

- *Do not open the case of the Inverter. The high voltage inside the unit is the same type of power as your electrical outlets at home.
- *Do not operate this Inverter in or around water. water can damage the Inverter, and water damage is not covered under warranty. Also, do not operate the Inverter using wet hands, the AC voltage of the unit makes it an electrical shock hazard if operated with wet hands.
- *Do not connect the AC Inverter directly to another AC power source. Damage may result, and damage will void the Inverter's warranty.

Special Notes

5. USE 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 easily start a TV set. 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 is shielded and filtered to minimize interference with TV signals, some interference may still be visible. Try take the unit far from 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.

8. MEASURING THE AC VOLTAGE

*The output waveform of the AC Inverter is a MODIFIED SINEWAVE. If you choose to measure the AC output voltage, you must use a TRUE RMS VOLT METER. Using any other type of voltage measuring device will result in an AC voltage reading of 20 to 30 volts lower than the rated value. When using a true RMS volt meter, you will get an accurate reading.

Special Notes

SPECIFICATIONS:

MODEL/ITEM	KV500	KV1000	KV1200	KV1800	KV2500
VOLTAGE IN	12VDC or 24VDC				
VOLTAGE OUT	100V/115V/220V/230V/240VAC				
CONTINUE POWER	500W	1000W	1200W	1800W	2500W
PEAKPOWER	1000W	2000W	2400W	3500W	5000W
OUTPUT FREQUENCY	50Hz or 60Hz				
OUTPUT WAVE FORM	MODIFIED SINE WAVE (MSW)				
NO LOAD CURRENT DRAW	0.6A	0.8A	1A	2A	2.5A
EFFICIENCY	90%				
FUSE	30A X2	30A X3	30A X4	30A X6	30A X8
WEIGHT	1.1Kgs or 2.42lbs	1.95Kgs or 4.29lbs	2.4Kgs or 5.28lbs	4.2Kgs or 9.24lbs	6Kgs or 13.2lbs
DIMENSION	200x130x60mm (LxWxH)	265x150x60mm (LxWxH)	315x150x60mm (LxWxH)	340x190x75mm (LxWxH)	380x190x95mm (LxWxH)

SPECIAL NOTES

FEATURES:

- . Low battery alarm and auto shutdown
- . Overload and short circuit protection
- . Input polarity reserve protection by fuse
- . Compact size, light weight and high efficiency
- . High surge current capability easy to start TV, motors and other inductive loads
- . Operates most AC powered electronic equipment

INSTRUCTIONS:

1. Plug into cigarette lighter socket or direct connected to 12V or 24V Volt DC source.
2. Turn on power switch on the unit, wait till the NEON indicator lamp lights up. (This unit has Built-in self detect circuit, NEON lamp indicates The unit is working properly.)
3. Plug equipment into the AC receptacle of this unit.
4. 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.

SPECIAL NOTES:

1. EQUIPMENT LOAD

Do not connect any equipment drawing more than 50W(KV-50), 80W(KV-80), 100W(KV-100), 150W (KV-150), 300W(KV-300), 500W(KV-500), 1000W (KV-1000), 1200W(KV-1200), 1800W(KV-1800), 2500W(KV-2500) continuously to the unit. The unit has a built-in protect circuit. It will automatically

SPECIAL NOTES

shut down if it is overloaded, and will restart once the overload is removed. This unit under 500W will not operate most power tools, and appliances which produce heat, such as hair dryers, microwave ovens toasters.

2. LOAD VOLTAGE CONDITION

When input voltage decrease to 10.5V (24V type is 21V) the unit will alarm with audible sound, it indicates that the battery is weak energy now, please stop using. If remain to using, when input voltage decrease to 10V, (24V type is 20V) 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 reserved, or the fuse will be broken.

4. DISPERSION OF HEATY

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 to circulate freely around the unit. A fan is helpful in cases where the unit is operating at maximum power output or extended period.

