



USER MANUAL

WP-Sine 24/500

'AC Power from the battery'



Recreational vehicles • Caravans
Pleasure craft • Holiday homes

High frequency sine wave inverter



For safe and optimal performance, the sinewave inverter must be used properly. Carefully read and follow all instructions and guidelines in this manual and give special attention to the CAUTION and WARNINGS statements. **PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE**

Disclaimer

While every precaution has been taken to ensure the accuracy of the contents of this manual, Whisper Power does not accept any responsibility for errors or omissions. Note as well that specifications and product functionality may change without notice.

Important

Please be sure to read and save the entire manual before using your WhisperPower sinewave inverter. Misuse may result in damage to the unit and/or cause harm or serious injury. Read manual in its entirety before using the unit and save manual for future reference.

TABLE OF CONTENTS

1. INTRODUCTION
2. INSTALLATION
3. UNIT OPERATION
4. TROUBLESHOOTING
5. SPECIFICATIONS
6. WARRANTY
7. CE MANUFACTURER DECLARATION

1. INTRODUCTION

Thank you for purchasing the WhisperPower sinewave inverter. With our easy to use design, this product will offer you reliable service for providing AC power and 5V USB power for your home, cabin, RV or trailer. The WhisperPower sinewave inverter can run many AC-powered appliances when you need AC power anywhere. The 5V USB power can charge many USB powered devices. This manual will explain how to use this unit safely and effectively. Please read and follow these instructions and precautions carefully.

IMPORTANT SAFETY INFORMATION

This section contains important safety information for the WhisperPower sinewave inverter. Each time, before using the WhisperPower sinewave inverter, READ ALL instructions and cautionary markings on or provided with the inverter and all appropriate sections of this guide. The WhisperPower sinewave inverter contains no user-serviceable parts. See Warranty section for how to handle product issues.



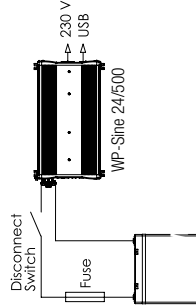
WARNING: FEE AND/OR CHEMICAL BURN HAZARD
- Do not cover or obstruct any air vent openings and/or install in a zero-clearance compartment.

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN DEATH OR SERIOUS INJURY

- When working with electrical equipment or lead-acid batteries, have proper ventilation and use appropriate safety precautions.
- Stick and follow all the battery manufacturer's specific precautions when installing, using and servicing the battery connected to the inverter.
- Wear eye protection and gloves.
- Avoid touching your eyes while using this unit.
- Keep fresh water on hand in the event battery acid comes in contact with eyes. If this occurs, cleanse right away with extensive water for a minimum of 15 minutes and seek medical attention.
- Batteries produce explosive gases. **DO NOT** smoke or have an open spark or fire near the system.
- Keep unit away from metal tool or object on the battery. Doing so could create a spark or short circuit which goes through the battery or another electrical tool that may create an explosion.

MATERIAL PREPARE FOR INSTALLATION

Typical Wiring block diagram of the sinewave inverter:



12V Battery Bank

- The use of deep cycle battery is highly recommended for sinewave inverter application
- For battery size, you need to identify how much you will be using them between charges. WhisperPower recommends you purchase as much battery capacity as possible. See more on Battery than time and load in Section 3.

Fuse or Circuit Breaker

- DC-rated fuse or DC-rated circuit breaker connected along with the inverter.
- Select a fuse or circuit breaker with 35A, 20V minimum rating.
- Based on the size of the battery bank chosen on the 24V Battery Bank above, determine the overall short circuit current rating of the battery bank from the battery manufacturer. The fuse or circuit breaker chosen has to be able to withstand the short circuit current that may be generated by the battery bank.

Disconnect Switch

- Select a Disconnect Switch with the same or higher the rating of the selected fuse or circuit breaker from the above.
- The Disconnect Switch is used to disconnect the DC power between the sinewave inverter and the battery bank during service, maintenance or trouble shooting.

DC Input cable

- Use of low resistance wire is required for all the DC connections between the inverter and the battery bank.
- Use wiring with minimum cable length of 1.5 meter and minimal cross-sectional area of 5mm² (10AWG).

- **WARNING** Shock hazard. Keep away from children!
- Avoid moisture. Never expose unit to snow, water, etc.
- Unit provides 230VAC at the output socket the same as regular wall AC sockets at home.

WARNING: Explosion hazard!

- DO NOT use the WhisperPower sinewave inverter in the vicinity of flammable liquids or gases (such as gasoline, kerosene, etc.)
- ALWAYS connect the ventilation openings. Always operate unit in an open area.
- Prolonged exposure to high heat or freezing temperatures will decrease the working life of the unit.



FCM INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

LIMITATIONS ON USE

Do not use in connection with life support systems or other medical equipment or devices.

2. INSTALLATION



WARNING: WhisperPower recommends that all wiring be done by a certified technician or electrician to ensure adherence to the applicable electrical safety wiring regulations and installation codes. Failure to follow these instructions can damage the unit and could also result in personal injury or loss of life.

CAUTION: Before beginning your WhisperPower sinewave inverter installation, please consider the following:

- The WhisperPower sinewave inverter should be used or stored in an open area away from direct sunlight, heat, moisture or conductive contaminants.
- When placing the unit, allow a minimum of 7.5 cm space around the unit for optimal ventilation.

