**High power from your battery!**

**Professional standalone true sine wave inverter**

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**Thank you for purchasing the WP-ACP (WhisperPower AC PowerCube) Sine wave inverter!**

The WP-ACP is designed to provide a high-quality sine wave output from your battery. It is compatible with WhisperPower AC PowerCube and professional AC PowerCube 24/4000, allowing for robust DC connections and high surge power over 200%, allowing for high power from your battery!

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**1. INTRODUCTION**

This manual serves as a guide for safe and effective installation of the WP-ACP, as well as correct operation and, if necessary, troubleshooting. It is recommended to keep this manual in good condition for future use. It should be kept in a dry and clean place, and it is recommended to keep the manual in good condition for future use.

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**2. INSTRUCTIONS FOR USE**

Regulations need to be followed at any time. Also bear in mind that all applicable (safety) standards and (local) laws need to be taken into account at any time. Furthermore, allow changes in your electrical system to be carried out by qualified electricians.

**CAUTION!** Throughout this manual, the following alert symbol is used to indicate potential hazards.

- **CAUTION!** Risk of personal injury

- **CAUTION!** Risk of equipment damage

- **Important:** Always be aware of the fact that your actions may have an impact on safety and/or product performance. Carefully follow instructions document.

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**3. TROUBLESHOOTING**

As described in section 2, the main display panel contains built-in LED indicators which will illuminate in case of any expected situation or error occurring. If one or all LEDs is illuminated, this will give an indication of the cause of the problem. The user is advised to switch off the system and try and correct the cause. Note that the system will switch off at the switch of any expected situation or error occurring at a maximum of 5 seconds.

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**DISCLAIMER**

WhisperPower BV accepts no responsibility for possible errors or omissions in catalogues, brochures and other printed material. WhisperPower reserves the right to alter the pricelist without notice. This guide must be followed carefully. WhisperPower can accept no responsibility for errors related to incorrect or unsafe installation and/or handling.

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**WhisperPower BV**

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Step 2: Connecting input and output cables

The drawing below presents a detailed view of the WP-ACP connection section which can be accessed before opening the holding flap at the bottom. Connect cables for the AC input, as well as for the batteries, as documented.

- Check battery identification labels prior to installation; be sure that the battery voltages match the input voltage of the DC/DC converter.

Installation prerequisites:
- Match the WP-ACP housing—on a solid wall. Position the system as indicated below, vertically, with the connecting cables downward.
- When the system is to be installed in a cabinet, ensure that the control panel remains accessible.
- Use DC battery cables of at least 70 mm². Never place the unit directly above the batteries; use the cable glands at the bottom to guide the cables.

Step 3: Realise PCB ports connections

EXPLANATION OF THE PCB PORTS AND CONFIGURATION:

1. Input battery bank 1 (plus)
2. Input battery bank 2 (minus)

Remote control panel
- RJ12 port, to be connected by RJ12 cables to the WhisperConnect CAN-Bus.
- USB Type 2.
- RJ45 port for integration of multiple WhisperPower systems.
- RJ45 port for integration of multiple WhisperPower systems.
- Remote control panel
- USB Type 2.

USB Type 2
- Use this port to set output parameters
- Use this port to set output parameters

Step 4: Connecting and powering remote control

The remote panel can either be mounted on the surface frame, wall-mounted, or it can be incorporated in your frame or dashboard. If the remote panel is to be mounted on top of the surface, the back cover can be used as a LCD guide.

In case the remote panel is to be mounted on the dashboard, the following drawing presents the correct dimensions:

5. Specifications

EN 61215 (emission), EN 61326-1 (terminals) and EN 61000-3-2 (distortion), EN 61000-6-2 (11), EN 61000-6-3:2014, EN 61000-6-4:2008, EN 61000-3-2:2013, EN 61000-4-4:2006, EN 61000-4-11:2006.

WhisperPower assures the product warranty of the WP-ACP AC PowerCube sine wave inverter during two years after purchase, in case of defects in materials and workmanship. WhisperPower guarantees that the equipment has been built according to the legally applicable standards and specifications.

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If the system is to be installed into a cabinet, Mount the WP-ACP–indoors–on a solid wall.

6. Warranty terms and conditions

The Remanufacturing process is as follows:

- Initially, the battery is charged to full capacity.
- A high-capacity battery is installed.
- The inverter is kept to run for 24 hours in order to test the performance.
- The battery is then discharged to 50% of its capacity.
- The inverter is kept to run for 24 hours in order to test the performance.
- The battery is then charged to full capacity.
- The process is repeated until the battery reaches its nominal capacity.
- The battery is then discharged to 50% of its capacity.
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