



MANUAL

WP-ACP

AC PowerCube 24/4000

Sine wave inverter



High power from your battery!
Professional standalone
true sine wave inverter



- Redundant heavy duty backup power system
- Lightweight 4.0kVA / 3.5kW sinewave inverter due to modern switch mode concept
- High surge power over 200%, allowing for inductive loads to start up smoothly
- Robust DC connections allow standard battery cables
- Energy saving by 90% system efficiency (peak)
- Compatible with WhisperPower DG PowerCube system



Thank you for purchasing the WP-ACP/WhisperPower AC PowerCube Sinewave Inverter. The WP-ACP allows you to produce 230V AC (true sine wave) power from a battery.
Before using the WP-ACP, please read the manual carefully. The WP-ACP is a safety sensitive device. Connections and wiring must be done correctly. The WP-ACP is a safety sensitive device. Connections and wiring must be done correctly. The WP-ACP is a safety sensitive device. Connections and wiring must be done correctly.

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1. INTRODUCTION

To ensure safe and sustainable operation of the WP-ACP it is important to read the manual carefully for safe and effective installation and use of the WP-ACP. It is not to be used for operation in hazardous or explosive environments. It is recommended to keep the manual in good condition for future use. It should be kept in a dry and clean place, and available at any time.

General precautions

To ensure safe and sustainable operation of the WP-ACP it is important to read the manual carefully for safe and effective installation and use of the WP-ACP. It is not to be used for operation in hazardous or explosive environments. It is recommended to keep the manual in good condition for future use. It should be kept in a dry and clean place, and available at any time.

IMPORTANT

Throughout the manual, the following alert symbols are used to indicate potential hazards:

CAUTION: Risk of equipment damage or personal injury may occur if the instructions are not followed correctly. Many factors can impact on safety and/or product performance. Carefully follow instructions documented in the manual.

2. INSTRUCTIONS FOR USE

CAUTION

- Risk of the explosion and/or electric shock
- To prevent overheating, (1) Ensure ventilation
- To prevent overheating, (2) Do not place the WP-ACP in a confined space in a vehicle or other enclosed space in a vehicle.
- Avoid inflammable gases near the WP-ACP
- Make sure an cables meet specifications and are rated for the application.
- Avoid sparks and/or short circuit, do not place metal tools on top of the batteries.
- Start load current may cause system heat. Take precautions, when working with batteries, as high temperatures may cause them to melt.

CAUTION
Risk of personal injury

- Follow the safety guidelines as prescribed by the battery manufacturer when working with batteries.
- Do not connect the WP-ACP to a battery with a different voltage or capacity than the WP-ACP is designed for.
- Do not connect the WP-ACP to a battery with a different chemistry than the WP-ACP is designed for.

WP-ACP BATTERY CONTROL DISPLAY



Use the indicator lights to check the status of the WP-ACP. The control display will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the battery level is 'OK', the 'AC Power' LED will illuminate. When the battery level is 'LOW', the 'AC Power' LED will turn off. When the battery level is 'CRITICAL', the 'AC Power' LED will flash. When the battery level is 'EMPTY', the 'AC Power' LED will be off.

Use the AC current output indicator to check the status of the AC output. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the AC current output is 'OK', the 'AC Current' LED will illuminate. When the AC current output is 'LOW', the 'AC Current' LED will turn off. When the AC current output is 'CRITICAL', the 'AC Current' LED will flash. When the AC current output is 'EMPTY', the 'AC Current' LED will be off.

Use the AC voltage indicator to check the status of the AC voltage. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the AC voltage is 'OK', the 'AC Voltage' LED will illuminate. When the AC voltage is 'LOW', the 'AC Voltage' LED will turn off. When the AC voltage is 'CRITICAL', the 'AC Voltage' LED will flash. When the AC voltage is 'EMPTY', the 'AC Voltage' LED will be off.

Use the AC frequency indicator to check the status of the AC frequency. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the AC frequency is 'OK', the 'AC Frequency' LED will illuminate. When the AC frequency is 'LOW', the 'AC Frequency' LED will turn off. When the AC frequency is 'CRITICAL', the 'AC Frequency' LED will flash. When the AC frequency is 'EMPTY', the 'AC Frequency' LED will be off.

Use the AC power factor indicator to check the status of the AC power factor. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

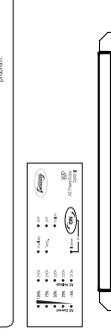
As long as the AC power factor is 'OK', the 'AC Power Factor' LED will illuminate. When the AC power factor is 'LOW', the 'AC Power Factor' LED will turn off. When the AC power factor is 'CRITICAL', the 'AC Power Factor' LED will flash. When the AC power factor is 'EMPTY', the 'AC Power Factor' LED will be off.

Remote control panel!
By setting the main switch on the main display to 'Remote', the remote panel becomes active.

Switch
Use the remote panel switch to power the system 'ON' and 'OFF'. The LED indicator will show the status of the system. The LED indicator will be on when the system is powered on and off when the system is powered off.

AC output monitoring
Shifting to the main display will illuminate in case of any exceptional situation or emergency. One or more of the LEDs is illuminated. The LEDs indicate the status of the system. The LEDs indicate the status of the system.

Emergency
If the system is in an emergency state, the LEDs will flash. The LEDs will flash to indicate the status of the system. The LEDs will flash to indicate the status of the system.



AC Current output
The AC current output indicator will show the status of the AC current output. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the AC current output is 'OK', the 'AC Current' LED will illuminate. When the AC current output is 'LOW', the 'AC Current' LED will turn off. When the AC current output is 'CRITICAL', the 'AC Current' LED will flash. When the AC current output is 'EMPTY', the 'AC Current' LED will be off.

AC Voltage
The AC voltage indicator will show the status of the AC voltage. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the AC voltage is 'OK', the 'AC Voltage' LED will illuminate. When the AC voltage is 'LOW', the 'AC Voltage' LED will turn off. When the AC voltage is 'CRITICAL', the 'AC Voltage' LED will flash. When the AC voltage is 'EMPTY', the 'AC Voltage' LED will be off.

AC Frequency
The AC frequency indicator will show the status of the AC frequency. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the AC frequency is 'OK', the 'AC Frequency' LED will illuminate. When the AC frequency is 'LOW', the 'AC Frequency' LED will turn off. When the AC frequency is 'CRITICAL', the 'AC Frequency' LED will flash. When the AC frequency is 'EMPTY', the 'AC Frequency' LED will be off.

AC Power Factor
The AC power factor indicator will show the status of the AC power factor. The indicator will show the system to 'ON', 'OFF' or 'FAULT'.

As long as the AC power factor is 'OK', the 'AC Power Factor' LED will illuminate. When the AC power factor is 'LOW', the 'AC Power Factor' LED will turn off. When the AC power factor is 'CRITICAL', the 'AC Power Factor' LED will flash. When the AC power factor is 'EMPTY', the 'AC Power Factor' LED will be off.

3. TROUBLE SHOOTING
As described in section 2, the main display and remote control panel LED indicators will illuminate in case of any exceptional situation or emergency. One or more of the LEDs is illuminated. The LEDs indicate the status of the system. The LEDs indicate the status of the system.

Note that the system will be in a fault state in case of any error situation remaining for more than two seconds.

Problem
No AC output
Check the main switch on the main display. It should be in the 'ON' position.
Check the battery voltage. It should be above 12.8V.
Check the battery level. It should be above 12.8V.

Problem
AC output monitoring LEDs are flashing
Check the battery voltage. It should be above 12.8V.
Check the battery level. It should be above 12.8V.
Check the AC current output. It should be above 10A.

Problem
AC voltage is low
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC power factor is low
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is low
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC frequency is low
Check the AC frequency. It should be above 50Hz.
Check the AC power factor. It should be above 0.9.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is high
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC frequency is low
Check the AC frequency. It should be above 50Hz.
Check the AC power factor. It should be above 0.9.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is low
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is low
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC power factor is low
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is low
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC frequency is low
Check the AC frequency. It should be above 50Hz.
Check the AC power factor. It should be above 0.9.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is high
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC frequency is low
Check the AC frequency. It should be above 50Hz.
Check the AC power factor. It should be above 0.9.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is high
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC current output is low
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is low
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC power factor is low
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is low
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC frequency is low
Check the AC frequency. It should be above 50Hz.
Check the AC power factor. It should be above 0.9.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

Problem
AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is high
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC power factor is high
Check the AC power factor. It should be above 0.9.
Check the AC current output. It should be above 10A.

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AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

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AC frequency is low
Check the AC frequency. It should be above 50Hz.
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Check the AC current output. It should be above 10A.

Problem
AC current output is high
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is high
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
AC current output is low
Check the AC current output. It should be above 10A.
Check the AC voltage. It should be above 230V.

Problem
AC voltage is low
Check the AC voltage. It should be above 230V.
Check the AC frequency. It should be above 50Hz.

Problem
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Check the AC power factor. It should be above 0.9.
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Check the AC frequency. It should be above 50Hz.

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Check the AC frequency. It should be above 50Hz.

Problem
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