230 VAC from the battery

- Up to 3 kW 230 V 50 Hz power
- Silent and clean operation
- Ideal to operate with solar and wind systems
- Automatic switching from share energy to inverter power
- Fully automatic 3-stage battery charging
- Adjustable to work with limited land or genset power
- Available for 1.2, 24 and 48 DC batteries

1. GENERAL INSTRUCTIONS

Thanks for choosing our product. This manual contains important safety and operation instructions. Read the manual before use.

2. THE WP-COMBI

The WP-COMBI is intended to be a professional installer. Check the contents pack for any accessories provided.

3. SAFETY INSTRUCTIONS

When using high voltages and high temperature areas within the WP-COMBI, only qualified and authorized personnel are permitted to open and use it.

4. GENERAL PRECAUTIONS

- Do not expose the WP-COMBI to direct rain, dust, or moisture of any type.
- It is designed for indoor use only. DO NOT install outdoors.
- Before you use the WP-COMBI, check to see if it is intact and in good condition.
- There is no need to add or remove batteries, and it is not required to drain or damage the WP-COMBI.
- Do not place objects on top of the WP-COMBI.

5. PRECAUTIONS REGARDING BATTERY OPERATION

- Use only the lithium-ion batteries as specified by the manufacturer, and make sure that the battery terminals are clean and intact.
- Batteries may become internal short-circuiting or becoming more sensitive to high temperatures, and may be prone to overcharging or overdischarging.
- Batteries can cause short-circuiting when they are not used properly, and may cause fires.

6. UNMPS-10 VDC

The WP-COMBI features a slave charger to charge a small battery. The output is a slave charger output and has the same voltage as the WP-COMBI.

- Battery charger (12V and 24V versions only)

The WP-COMBI features a slave charger to charge a small battery. The output is a slave charger output and has the same voltage as the WP-COMBI.

- Manual Equalization

During equalization, the time the battery charger can deliver energy is controlled. This setting will not affect the setting of equalization and will not impact on the slave charger output.

7. BATTERY TOLERANCE

Batteries are sensitive to high temperatures, and may become more sensitive to high temperatures, and may be prone to overcharging or overdischarging.

8. BATTERY CHARGING

The WP-COMBI features an automatic charging mode, which is manually adjustable in the product's parameters. Please refer to Chapter 2 for details on manual adjustment.

9. TRANSFER CHARGING / INVERTER

The WP-COMBI can transfer load to either AC input grid or generator to ensure optimal usage. In all situations, different applications may require different charging modes, such as the selected by the user.

10. UPS MODE

In case of LDAPs, AC input grid or generator to ensure optimal usage. In all situations, different applications may require different charging modes, such as the selected by the user.

11. OVERLOAD PROTECTION

The WP-COMBI has two overload protection modes. If overload is detected, the WP-COMBI will switch off for overload protection. After clearing the overload, the inverter has to be reset manually.

12. SHORTCIRCUIT

The WP-COMBI will shut down and be in standby mode.

Battery temperature protection

During charging, the WP-COMBI keeps monitoring the battery temperature and will shut down if the battery temperature exceeds the AC input grid or generator to ensure optimal usage. In all situations, different applications may require different charging modes, such as the selected by the user.

Battery capacity

On the lock switch, the battery capacity can be set from 100% to 120% through the lock switch. You can configure the battery capacity of your battery system with this setting. The charging capacity chart of 24V 120% configuration is shown below.

Material:

NEN 3634 - Roughness of finished products
NEN ISO 1101 - Form and Place Tolerances
NEN ISO 2768 - General Tolerances
NEN EN 22553 - Welding Symbols

CHKE'D
DRAWN
PRINTED 15 May 2012
SHEET FORMAT: PROJECTION: THIRD ANGLE
UNITS: mm
A2

WHISPERPOWER B.V.

1533x205 5 4 3 2 1

- A
do not scale drawing
- Unless otherwise specified:
- Chamfer sharp edges
- General tolerance
- NEN ISO 2768
- Form and place tolerances
- NEN-ISO 1101
- Roughness according to NEN-3634

- A
- CHK'D
- DRAWN
- PRINTED 15 May 2012
- SHEET FORMAT: PROJECTION: THIRD ANGLE
- UNITS: mm
- A2

WHISPERPOWER B.V.
### 11. TROUBLE SHOOTING

**Problem**

- No output voltage
- Battery is empty

**Solution**

- Replace battery
- Charge battery

**DANGER**

During evaluation, the battery power must only be disconnected if you are sure that the battery is not connected to any load.

Battery must not be used if the battery voltage drops below 9.5VDC.

### 1. SPECIFICATION

**Model**

- WP-Combi
- WP-Combi
- WP-Combi

**Input voltage range**

- 194..250Vac (UPS mode) 170..265Vac (GEN mode)

**Output voltage**

- 230 Vac
- 48Vdc
- 24Vdc
- 12Vdc

**Nominal battery voltage**

- 12Vdc
- 24Vdc
- 48Vdc

**Inverter**

- True Sine wave

### 3. INSTALLATION

### 4. OPERATION

#### 4.1. EQUALIZATION

If the battery charger is not used for a longer period of time, it is recommended to connect the battery charger for 10-15 minutes to equalize the battery voltage.

### 5. CONCLUSION

- The WP-Combi is designed to provide reliable and effective power solutions for various applications. It is the perfect solution for people who need a reliable and efficient power source.

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