1. **Advanced 5 step** - charge algorithm, adapted charging for wet AGM and GEL batteries, for a perfect charge of your battery.
2. **Self-adjusted temperature compensation** (for hot and cold environment, ensuring cold start in winter and preventing from overheating during the summer).
3. **Easy battery size selection and power supply function** enabling forced float charge.
4. **Equipped with Charging Status Interface**, indicating charge phase at a glance.
5. **Reverse polarity protection** with built-in flashlight, helpful when connecting the WBC charger in the dark.
6. **Standard supplied with permanent installation kit**, for fixed installations.

### CONTENTS:
- 1. Introduction
- 2. Getting Started
- 3. Instructions
- 4. Charging Curve
- 5. Safety
- 6. Special Features
- 7. Faults Indications & Troubleshooting
- 8. Maintenance
- 9. Accessories
- 10. Technical Specifications
- 11. CE Manufacturer Declaration
- 12. Limited Warranty

### PLEASE READ THIS USER GUIDE CAREFULLY BEFORE USING THE CHARGER.

### USE PROTECTIVE EYEWEAR WHEN HANDLING BATTERIES.

### 1 INTRODUCTION
Thank you for choosing a professional quality product from WhisperPower. This advanced and user-friendly battery charger will optimize performance and lifetime of your battery.

This intelligent and fully automatic charger can be used to charge any type of lead-acid batteries, including AGM and GEL types within 20 to 300AH. It can also act as a 12VDC power supply in the forced float mode. It has an automatic flashlight that automatically turns on when not connected to the battery.

For more information about WhisperPower and our products, visit www.whisperpower.com.

*Wet battery only in the range of 0°C to 45°C.*

### 2 GETTING STARTED
1. **Connect the AC mains plug to a power socket.**
2. **Connect the red clamp to the battery’s positive (+) pole, and the black clamp to the battery’s negative (-) pole.**
3. **Select a charge mode** or **Forced Float (13.7V)** mode, by pressing the selection button.
4. **A green light next to “full battery” symbol means the battery is fully charged and has entered maintenance mode** (not applicable for Forced Float (13.7V) mode).
5. **After charging is complete**, the charger will switch to a maintenance mode to keep the battery fully charged as long as charger is plugged in to the mains.
6. **Special features** see chapter 6.

### 3 INSTRUCTIONS
1. **Connect the AC mains plug to a power socket.** The flashlight in front of the charger will automatically turn on to help you in dark situations.
2. **Connect the red clamp to the battery’s positive (+) pole, and the black clamp to the battery’s negative (-) pole.**
3. **Select the most suitable mode** for your battery (refer to battery manual if in doubt) by pressing the selection button. There are 4 modes to choose from in the left column. A yellow light indicates the currently selected charge mode for the Forced Float (13.7V) mode the light is green, if the red light turns on it means “FAULT” and indicates wrong connection to battery (reversed polarity). Remove clamps and reconnect correctly.
4. **Approximately 3 seconds** after the battery is connected, the flashlight will turn off and one (1) LED light (in the right column) will show the battery level.

#### GREEN
- Fully charged.

#### YELLOW
- Charging
- Yellow flashing – time limit fault
- Yellow – charging (Empt/low)

#### RED – FAULT
- Red flashing – over-temp (over ~50°C)

5. When charging is complete, unplug the mains; disconnect the clamps from the battery. Store the charger in its original bag when not in use.
6. **By leaving the clamps on the battery after charging, and mains plugged in,** the charger will automatically switch to Float (13.7V) maintenance mode as long as it is connected to the mains.

### 4 CHARGING CURVE

![Charging Curve Graph](curve.png)

#### Reference charging time (hours) to 85% capacity. Time varies with different batteries and conditions.
- 4.3h: 4.7h: 7.1h: 10.4h: 9.5h: 10.8h

*Note: If left connected after step 5, it is programmed to restart from Step 0 after 7 days, to refresh the battery.

### 5 SAFETY
- This charger is made for charging 12V lead-acid batteries or to act as a Forced Float (13.7V) power supply. Do not use it for other purposes or with other battery types.
- Do not try to recharge non- rechargeable batteries.
- Do not use the charger if its casing, terminals, clamps or cables are damaged.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Use protective eyewear when handling batteries, and connecting or disconnecting it.
- Battery acid is corrosive. If it comes in contact with skin or eyes – rinse with plenty of water and contact a doctor immediately.
- During charge, a battery can emit explosive gases. Make sure there are no sparkers or flames close to it, and ensure good ventilation.
- Never charge a battery that is frozen.
- Do not place the charger on top of the battery.
- Do not cover the charger.
- The charger is protected against overheating. If the ambient temperature is too high, the charging current is reduced.
- During the charge, the charger may intermittently provide a 15.5V charge voltage. Ensure that no equipment that may be damaged by this voltage level is connected to the battery during charging.
In the Forced Flash (13.7V) supply mode the charger provides a constant output voltage of 13.7V that in certain circumstances may cause sparking. Be very careful with polarity when using the unit as a power supply. Also remember when using the power supply function, you must unplug the unit from the mains before removing the clamps from the battery.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Make sure that the charger is switched to maintenance mode after normal charging is completed, if you want to leave it unattended and connected for a long time. If it does not leave charge mode after maximum time, disconnect charger from the battery. See technical specifications below for info about time limit.

- All batteries will eventually fail. If that happens during charging, the charger will detect it, but there may be some rare faults in the battery, so do not leave it charging unattended for longer periods of time.

- Do not allow children to play with any part of this product.

- You need to have read and understood the full content of this user guide before you start using the battery charger.

6 SPECIAL FEATURES

- Flashlight: There is a built-in flashlight in the front of the charger. It will automatically turn on when the charger is plugged in, to assist you in dark situations. It will automatically switch off after you connect your battery.

5 Fault: The flashlight does not come on when the charger's power cable is plugged into the mains socket.

Probable cause: No power in mains socket. Or the flashlight LED is broken. (You can still use the charger but it will be without flashlight function.)

8 MAINTENANCE

The charger is entirely maintenance-free. It has no user-serviceable parts. Opening the charger will void the warranty. The case may be cleaned using a soft, damp cloth. The charger must be disconnected from the mains when being cleaned.

9 ACCESSORIES

The charger comes with clamp cables and a set of ring terminal cables, which can be used for wired installations. To change clamp cables, press the unlock button on the connector and pull it out. Connect the desired new cable. Push it all the way. The flap should lock it.

10 TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>WRC-Handy 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>switch mode, microprocessor controlled charger</td>
</tr>
<tr>
<td>For battery type</td>
<td>12V, lead-acid, AGM, GEL</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>20-300Ah, max 60AH</td>
</tr>
<tr>
<td>Input voltage</td>
<td>220-240 VAC +/-10%</td>
</tr>
<tr>
<td>Input current</td>
<td>1.5A</td>
</tr>
<tr>
<td>Bank current</td>
<td>41mA</td>
</tr>
<tr>
<td>Charging voltage</td>
<td>13.7-15.4V</td>
</tr>
<tr>
<td>Charging voltage supply</td>
<td>13.750V (up to 15A lead)</td>
</tr>
<tr>
<td>Charging current</td>
<td>Max 15A</td>
</tr>
<tr>
<td>ReSip voltage</td>
<td>Max 7.0V</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-40 to 50°C</td>
</tr>
<tr>
<td>Cooling</td>
<td>Convection</td>
</tr>
<tr>
<td>Spark protection</td>
<td>Yes (except for solid metal)</td>
</tr>
<tr>
<td>Temperature sensor</td>
<td>Yes (40,70°F)</td>
</tr>
<tr>
<td>Temperature cut-off</td>
<td>Yes (agent, -40°C)</td>
</tr>
<tr>
<td>Time after (Bad or too big but)</td>
<td>30 hours (after)</td>
</tr>
<tr>
<td>Max charging time</td>
<td>51 hours (approximately)</td>
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<tr>
<td>Charging type</td>
<td>5 steps, 0.8V up, or 13.7V maintenance lead</td>
</tr>
<tr>
<td>Battery DC cable length</td>
<td>1500 mm</td>
</tr>
<tr>
<td>Power cable 2x3.75 mm²</td>
<td>1400 mm</td>
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<tr>
<td>Dimensions WxHxD</td>
<td>325x129x262 mm</td>
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<tr>
<td>Internal Protection class</td>
<td>IP54</td>
</tr>
<tr>
<td>Weight</td>
<td>1.1 kg (net)</td>
</tr>
</tbody>
</table>

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