

VOLTCRAFT VCW 12000

VOLTCRAFT VCW 12000 Trickle Charger

User Manual

1. PRODUCT OVERVIEW

The VOLTCRAFT VCW 12000 is a microprocessor-controlled battery charger designed for lead-acid batteries. It offers switchable charging currents of 2 A, 6 A, and 12 A, making it suitable for batteries ranging from 6 Ah to 120 Ah. The unit features 6 LED indicators and a digital display to provide comprehensive information on all charging procedures. It automatically switches to trickle charging once the battery is full, ensuring optimal battery health during long periods of inactivity. Additionally, it includes a jump start function and a 12 V DC output for powering external devices.



Figure 1: Front view of the VOLTCRAFT VCW 12000 Trickle Charger with included battery clamps.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Ensure adequate ventilation during charging. Batteries can produce explosive gases.
- **Sparks and Flames:** Keep sparks, flames, and smoking materials away from the battery and charger.
- **Eye and Skin Protection:** Always wear eye protection and gloves when working with batteries. Battery acid is corrosive.
- **Reverse Polarity Protection:** The charger has reverse polarity protection. However, always double-check connections before powering on.
- **Indoor Use:** This charger is designed for indoor use only. Do not expose to rain or moisture.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.
- **Damaged Unit:** Do not operate the charger if it has been dropped, damaged, or if the power cord is frayed.

3. SETUP

Before connecting the charger, ensure the battery terminals are clean and free of corrosion.

1. Connect Charger to Battery:

- Connect the **red** positive (+) clamp to the positive (+) terminal of the battery.
- Connect the **black** negative (-) clamp to the negative (-) terminal of the battery.
- Ensure a secure connection. The charger features reverse polarity protection, indicated by a specific LED if connected incorrectly.

2. Connect Charger to Power Outlet:

Plug the charger's power cord into a standard 230 V AC electrical outlet.



Figure 2: Angled view of the charger, showing the connection points for battery clamps.

4. OPERATING INSTRUCTIONS

The VCW 12000 offers various functions for efficient battery management.

4.1. Charging a Battery

1. **Power On:** Press the **POWER ON/OFF** button to turn on the charger.
2. **Select Charging Current:** Press the **2/6/12 AMP SELECT** button to cycle through the available charging currents (2 A, 6 A, 12 A). Choose the appropriate current based on your battery's capacity and charging requirements.
3. **Monitor Charging:** The digital display will show the battery voltage, and the LED indicators will provide status updates:
 - **FAULT:** Illuminates if an error occurs (e.g., reverse polarity, short circuit).
 - **CHARGING:** Illuminates when the battery is actively being charged.
 - **FULL:** Illuminates when the battery is fully charged. The charger will automatically switch to trickle charge mode.
4. **Battery Voltage Display:** Press the **BATTERY VOLTAGE** button to view the current battery voltage on the digital display.

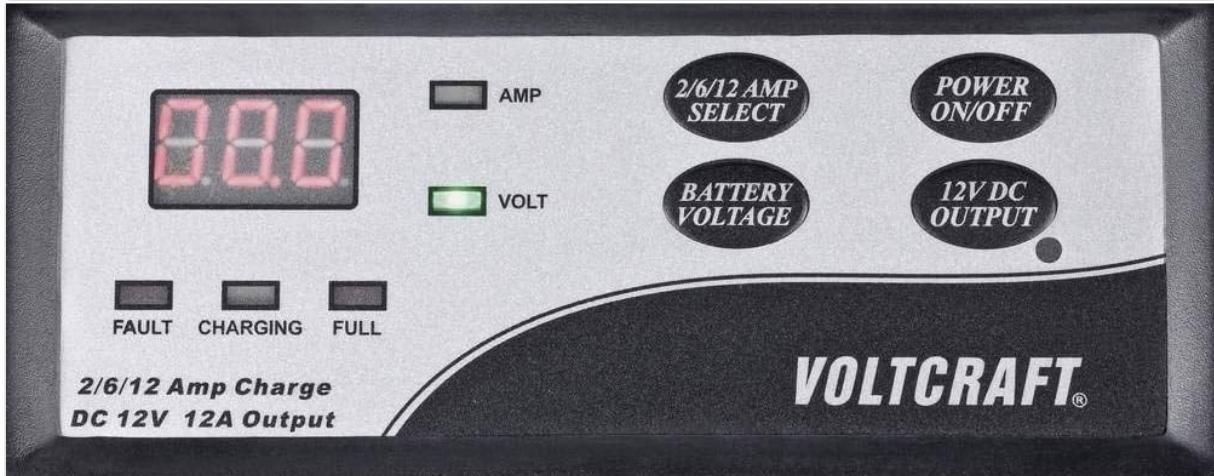


Figure 3: Detailed view of the control panel, showing the digital display, current selection, and status indicators.

4.2. Jump Start Function

If your car battery is completely drained, the VCW 12000 can provide a 12 A jump start for up to 5 minutes.

1. Ensure the charger is connected correctly to the battery and powered on.
2. Activate the jump start function (refer to specific button or mode if available, otherwise it's typically part of the 12A charge mode for a short burst).
3. Attempt to start the vehicle within the 5-minute window.

4.3. 12 V DC Output

The charger features a 12 V DC output port on the rear, allowing you to power 12 V devices up to 140 W (e.g., car vacuum cleaners, portable refrigerators).

1. Locate the 12 V DC output port on the back of the unit.
2. Connect your 12 V device to this port.
3. Ensure the device's power consumption does not exceed 140 W.



Figure 4: Rear view of the charger, highlighting the product label and the 12V DC output socket.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VOLTCRAFT VCW 12000 charger.

- **Cleaning:** Disconnect the charger from power and battery before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect the power cord and battery clamps for any signs of damage, fraying, or corrosion. Replace if necessary.

6. TROUBLESHOOTING

If you encounter issues with your VCW 12000, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on.	No power from outlet; faulty power cord.	Check power outlet; inspect power cord for damage.
FAULT LED illuminates.	Reverse polarity connection; short circuit; battery fault.	Disconnect and re-connect clamps correctly; check battery for damage.
Battery not charging.	Incorrect current selection; deeply discharged battery; faulty battery.	Ensure correct current is selected; allow more time for deeply discharged batteries; test battery condition.
Digital display shows '8.8.8' or erratic readings.	Internal error; unstable power supply.	Disconnect from power, wait a few minutes, then reconnect. If issue persists, contact support.

7. SPECIFICATIONS

Battery Voltage:	12 V
Max. Charging Current:	2 A / 6 A / 12 A (Switchable)
Operating Voltage:	230 V AC
Charging Voltage:	13.8 V
Jump Start Function:	12 A (for 5 min)
Recommended Battery Capacity:	6 Ah to 120 Ah
Suitable Battery Types:	Lead-acid batteries
Discharge Function:	No
Charging Stages:	3-stage automatic charging
12 V DC Output:	Up to 140 W
Model Number:	01.80.120
Dimensions (Package):	50.01 x 50.01 x 10.01 cm
Weight (Item):	1.4 kg (approx. 3.09 lbs)

8. WARRANTY AND SUPPORT

VOLTCRAFT products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your purchase or visit the official VOLTCRAFT website. For technical support, troubleshooting assistance beyond this manual, or spare parts, please contact VOLTCRAFT customer service through their official channels.

Please retain your proof of purchase for warranty claims.

