

HYDTGZ 36V40A-65440110 (36V 40A)

HYDTGZ 36V 40A High Power Lead-Acid Battery Charger

Model: 36V40A-65440110

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your HYDTGZ 36V 40A High Power Battery Charger. This charger is designed for lead-acid batteries used in various electric vehicles, including forklifts, golf carts, and other industrial equipment. Please read this manual thoroughly before using the product to ensure proper function and longevity.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the charger or battery:

- Ensure the charger is connected to an AC power source within the specified voltage range (AC110-240V, 50/60Hz).
- Do not attempt to charge non-rechargeable batteries. This charger is specifically designed for lead-acid batteries.
- Operate the charger in a well-ventilated area to prevent heat buildup.
- Avoid short-circuiting the output terminals.
- Do not expose the charger to rain or moisture.
- Keep out of reach of children.
- In case of unusual odors, smoke, or excessive heat, immediately disconnect the charger from the power source and the battery.

3. PRODUCT OVERVIEW

The HYDTGZ 36V 40A Battery Charger features an all-aluminum shell for durability and efficient heat dissipation. It incorporates advanced charging technology to ensure optimal battery health and performance.

Key Features:

- **Three-stage charging mode:** Constant current, constant voltage, and trickle (float charge) for complete and safe charging.
- **Multiple protections:** Includes overcurrent, overvoltage, overtemperature, short circuit, and reverse polarity protection.
- **Durable construction:** Robust aluminum alloy shell, fireproof and safe.

- **Efficient cooling:** Powerful cooling fan with porous air inlets.
- **Clear indicators:** LED display shows charging status (green for standby/full, red for charging).
- **Wide application:** Suitable for electric boats, golf carts, RVs, forklifts, and other electric vehicles.

Product Components:



Figure 1: Main view of the HYDTGZ 36V 40A Battery Charger, showcasing its robust blue aluminum casing and integrated handle.



Figure 2: Visual representation of the charger's core features: fast charging capability, automatic full stop, smart display for monitoring, and CV-CC output for efficient power delivery.

360° All-round Detail Display



Figure 3: A comprehensive 360-degree view detailing various angles and components of the HYDTGZ battery charger, including its front panel, side vents, and rear connections.

4. SETUP

Follow these steps to set up your battery charger:

1. **Unpack the Charger:** Carefully remove the charger and all accessories from the packaging. Inspect for any signs of damage.
2. **Prepare Output Connector:** The charger comes with bare wire output connectors. You will need to weld or attach the appropriate output plug suitable for your battery's input terminal. Refer to Figure 4 for common output connector types.
3. **Select Input Plug:** Ensure the AC power cord's input plug is compatible with your local power outlet. The charger supports AC110-240V.
4. **Placement:** Place the charger on a stable, flat surface in a well-ventilated area, away from flammable materials and direct sunlight.

Input plug selection



Figure 4: Illustration of various input plug options and different types of output connectors (A1-A5) that can be attached to the charger's bare wires, allowing customization for specific battery terminals.

5. OPERATING INSTRUCTIONS

To charge your lead-acid battery:

1. **Connect to Battery:** Ensure the charger is OFF. Connect the output plug of the charger securely to the battery terminals. Observe correct polarity (positive to positive, negative to negative).
2. **Connect to AC Power:** Plug the AC power cord into a suitable wall outlet.
3. **Monitor Charging:** The LED indicator will show a **red light**, indicating that charging is in progress. The smart display will show charging voltage and current.
4. **Charging Cycle:** The charger will automatically proceed through its three-stage charging process: constant current, constant voltage, and finally trickle (float charge).
5. **Charging Complete:** Once the battery is fully charged, the LED indicator will turn **green**. The charger will automatically switch to trickle charge mode to prevent overcharging.

6. **Disconnect:** First, unplug the AC power cord from the wall outlet. Then, disconnect the charger's output plug from the battery terminals.



Figure 5: The charger's cooling fan actively dissipating heat, ensuring constant temperature charging and preventing overheating during operation.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your charger:

- **Cleaning:** Regularly wipe the aluminum alloy shell with a dry, soft cloth to remove dust and dirt. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and air inlets are free from obstructions to maintain proper airflow and prevent overheating.
- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically check the AC power cord and output cables for any signs of damage, fraying, or exposed

wires. Replace if necessary.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on (no LED light)	No AC power; faulty power cord; internal fault.	Check AC power connection and outlet. Inspect power cord for damage. If problem persists, contact support.
LED remains green when connected to battery	Battery already fully charged; incorrect battery connection; reverse polarity.	Verify battery charge level. Recheck battery connections for correct polarity.
LED remains red for extended period	Battery deeply discharged; battery fault; charger output fault.	Allow more time for charging. If charging does not progress, have battery checked by a professional. Contact support if charger is suspected faulty.
Charger gets excessively hot	Poor ventilation; fan obstruction; internal overload.	Ensure adequate ventilation around the charger. Check cooling fan for obstructions. Disconnect and allow to cool. If problem persists, contact support.

The charger includes multiple protection features (overcurrent, overvoltage, overtemperature, short circuit, reverse polarity) to prevent damage. If these protections are triggered, the charger may shut down or enter a safe mode. Disconnect and re-evaluate the setup before attempting to restart.

8. SPECIFICATIONS

Detailed technical specifications for the HYDTGZ 36V 40A Battery Charger:

Parameter	Value
Product Name	Battery Charger
Applicable Battery Type	Lead-acid battery
Model Specification	36V 40A
AC Input Voltage	AC110-240V, 50/60Hz
DC Output Voltage	36V
DC Output Current	40A
Shell Material	All aluminum shell
Color	Blue
Dimensions (LxWxH)	303 x 154 x 92 mm (approx. 11.93 x 6.06 x 3.62 inches)
Charger Weight	3.5 KG (approx. 7.7 lbs)

Parameter	Value
Manufacturer Part Number	36V40A-65440110

Wide range of uses

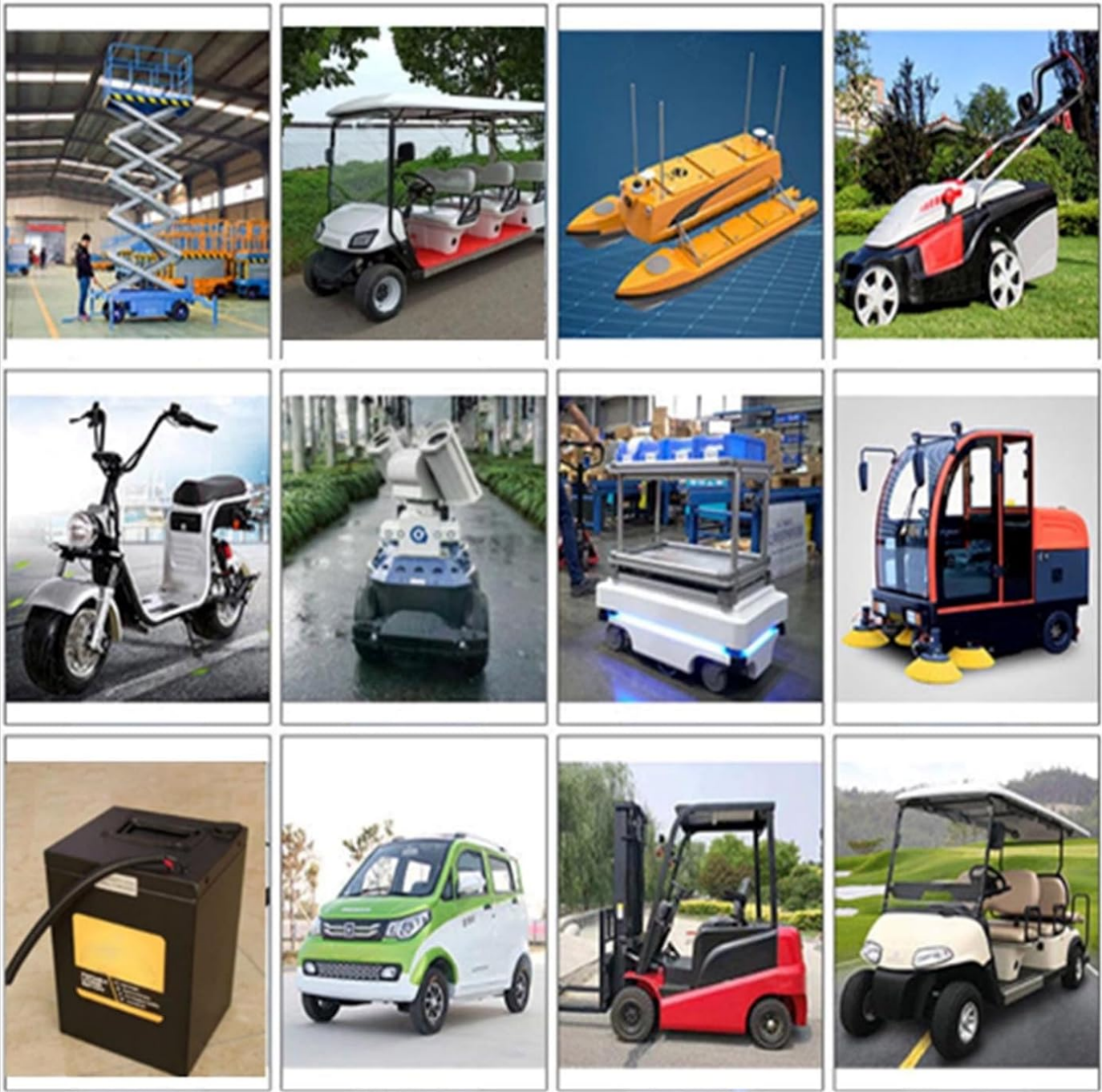


Figure 6: Examples of various electric vehicles and equipment where the HYDTGZ battery charger can be utilized, including forklifts, golf carts, and cleaning equipment.

9. WARRANTY AND SUPPORT

Our chargers undergo strict technical testing before leaving the factory to ensure the best possible experience for our customers.

Warranty Information:

Please refer to the product description or your purchase documentation for specific warranty terms and conditions. Generally, the product is covered by a standard manufacturer's warranty against defects in materials and workmanship.

Customer Support:

If you have any questions, require assistance with setup, operation, or troubleshooting, or need to report a defect, please contact our customer support team. We are committed to providing prompt and helpful assistance to resolve any issues you may encounter.

Contact information can typically be found on your purchase receipt, the product packaging, or the seller's official website.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question