

YUANRI Forklift Battery Charger 24V 25A

YUANRI Forklift Battery Charger 24V 25A Instruction Manual

Model: Forklift Battery Charger 24V 25A

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1. INTRODUCTION

Thank you for choosing the YUANRI 24V 25A Forklift Battery Charger. This fully automatic, intelligent charger is designed for 24V lead-acid batteries used in various industrial and recreational vehicles such as forklifts, electric pallet jacks, floor scrubbers, and golf carts. Featuring IP67 waterproofing, advanced safety protections, and a 7-stage smart charging process, this charger ensures efficient and safe battery maintenance. Please read this manual thoroughly before use to ensure proper operation and prolong the life of your battery and charger.

2. IMPORTANT SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always operate the charger in a well-ventilated area, away from flammable or explosive materials.
- Ensure the charger matches the battery pack's voltage and type (24V lead-acid).
- Connect the AC input and DC output correctly before powering on.
- Do not touch input or output terminals during charging.
- Do not disassemble the charger to avoid electric shock.
- Keep out of reach of children.
- Avoid exposing the charger to direct sunlight or extreme temperatures.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

24V 25A FORKLIFT BATTERY CHARGER



25 AMP
High Power



IP67
Waterproof



CE/ FCC/
RoHS/ ETL



7-Stage Smart
Charging



3-Color
Indicator Light



Trickle
Charging Mode



16 FT
Extended Cord



8 Charge
Protection



Strong
Aluminum Shell



Highly
Efficient Cooling



Image: The YUANRI 24V 25A Forklift Battery Charger and its included accessories, including the power cable, Anderson connector, and terminals.

3. PRODUCT FEATURES

- **8 Protection Functions:** Includes over-voltage, over-current, reverse-connection, short-circuit, no-load, over-time charging, and automatic shutdown during overheating.
- **7-Stage Smart Charging:** Automatically adjusts voltage/current and switches to trickle mode to prevent overcharging, extending battery lifespan.
- **Built-in Cooling Fan:** Maintains stable operation during prolonged use.
- **25A Fast Charging:** Delivers rapid charging for 24V lead-acid batteries.
- **Intelligent Temperature Compensation:** Adjusts charging voltage based on ambient temperature for optimal performance.
- **3-Color LED Indicators:** Clearly displays charging stages (Red: <90%, Yellow: 90-99%, Green Flash: Trickle, Green On: Full Charge).

- **IP67 Weatherproof & Durable Build:** Aluminum housing provides protection against dust, water, and shock, suitable for harsh environments.
- **Extended Cables & Anderson Connector:** Includes 9.8ft heavy-duty cables (4.9ft power + 4.9ft charging) with a quick-disconnect Anderson plug and spare terminals.
- **Certifications:** CE/FCC/RoHS/ETL certified with energy-efficient PFC/LLC technology.



Image: The YUANRI charger highlighting its IP67 waterproof and durable aluminum shell design.

4. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package:

- YUANRI 24V 25A Forklift Battery Charger
- AC Power Cable (4.9 ft)
- DC Charging Cable with Anderson Connector (4.9 ft)

- Spare Anderson Connector Terminals (2 pieces)
- Instruction Manual (this document)

Your browser does not support the video tag.

Video: An overview of the YUANRI 24V 25A Forklift Battery Charger and its included components, demonstrating the charger unit, power cable, and Anderson connector accessories.

5. SETUP INSTRUCTIONS

1. **Placement:** Place the charger on a stable, flat surface in a well-ventilated area. Ensure there is adequate space around the charger for proper airflow, especially around the cooling fan.
2. **Battery Compatibility:** Confirm that the battery to be charged is a 24V lead-acid battery. This charger is compatible with 24V battery systems, whether composed of two 12V batteries or four 6V batteries.
3. **Connect to Battery:** Connect the DC charging cable with the Anderson connector to the battery's charging port. Ensure a secure and firm connection. The Anderson connector is designed for quick and reliable attachment.
4. **Connect to Power:** Plug the AC power cable into a standard 100-240VAC 50/60Hz electrical outlet.
5. **Initial Check:** Once both connections are made, the charger will initiate its charging process. Observe the LED indicators for the charging status.

3-COLOR INDICATOR LIGHT



Image: A close-up of the charger's side, showing the 3-color LED indicator for charge status and the input/output ports.

6. OPERATING INSTRUCTIONS

The YUANRI charger features a 7-stage smart charging process and intuitive LED indicators for easy monitoring.

6.1. Charging Process

The charger automatically detects the battery's state and applies the appropriate charging stage:

- **Stage 1-6 (Bulk to Absorption):** The charger delivers a high current (up to 25A) and then gradually reduces it as the battery voltage rises.
- **Stage 7 (Float/Trickle):** Once the battery is fully charged, the charger automatically switches to a low-current trickle mode to maintain the charge without overcharging.

6.2. LED Indicator Status

Monitor the 3-color LED indicator on the charger for real-time status:

- **Red Flash:** Low Charging (Battery charge less than 80%)
- **Yellow Flash:** Normal Charging (Battery charge between 80% and 99%)
- **Green Flash:** Trickle Mode (Battery is nearly full, maintaining charge)
- **Green On:** Fully Charged (Battery is 100% charged)
- **Red/Green Flash:** No-Load (Charger is powered on but not connected to a battery or battery is faulty)

SMART CHARGING TECHNOLOGY

● Protect Your Battery Health and Extend Battery Life

● How it Work?

When charging your golf cart, the smart charging algorithm will reduce amp output relative to your golf cart battery pack's total voltage and current operating conditions.



7-Stage Smart Charging

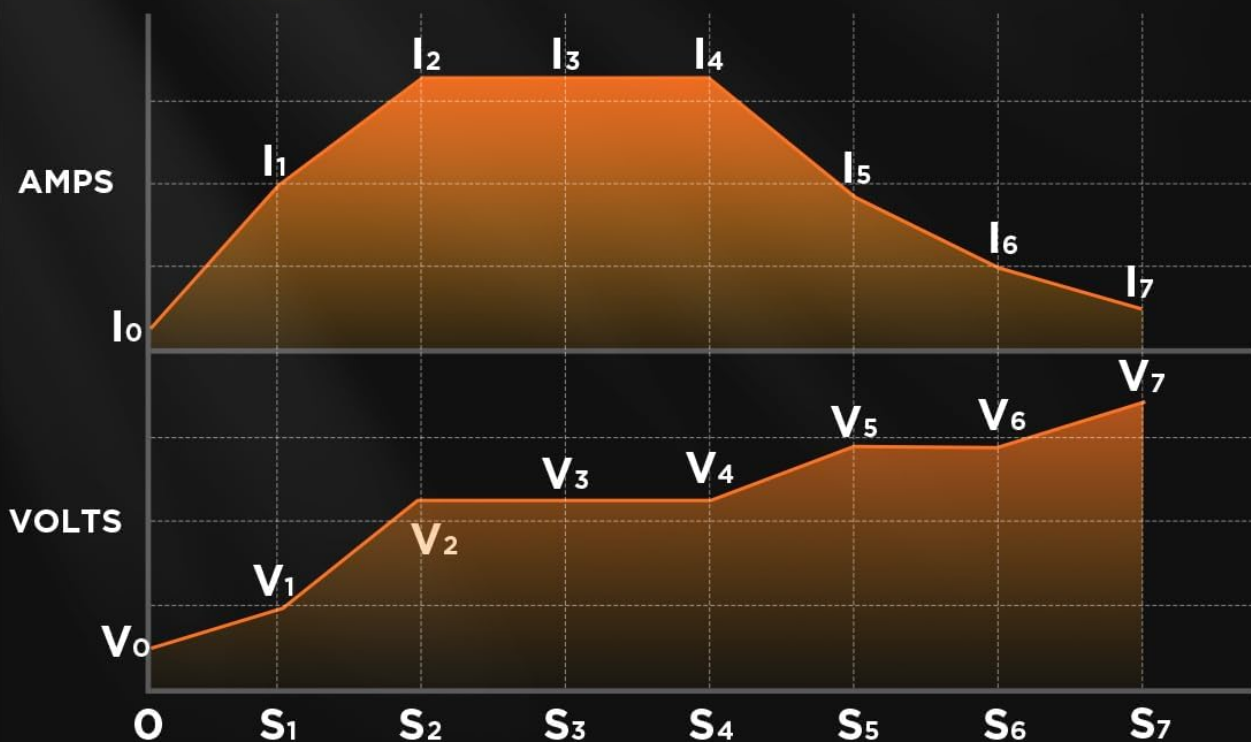


Image: A graphical representation of the 7-stage smart charging technology, showing how current and voltage are managed throughout the charging cycle to protect battery health.

WIDE APPLICATION

Widely used in 24V lead-acid battery vehicles, such as forklifts, golf carts, scrubbers, sightseeing vehicles, etc



Forklift



Floor Scrubber



Golf Cart



Sightseeing Car



Note: This charger can be used whether it is a 24V battery composed of two 12V batteries or four 6V batteries

Image: A visual guide to the 3-color LED indicator, illustrating the different states (Red, Yellow, Green Flash, Green On) and their corresponding charge levels.

7. MAINTENANCE

- **Cleaning:** Regularly wipe the charger's exterior with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the cooling fan and vents are free from dust and debris to maintain optimal heat dissipation.
- **Cable Inspection:** Periodically check the AC and DC cables for any signs of damage, fraying, or exposed wires. Replace damaged cables immediately.
- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Connector Care:** Keep the Anderson connector clean and free of corrosion to ensure a reliable connection.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on (no LED activity)	No power from AC outlet; faulty AC cable; internal fault.	Check AC outlet with another device. Inspect AC cable for damage. Contact support if problem persists.
Red/Green LED flashes (No-Load)	Battery not connected; poor connection; battery voltage too low or too high; incompatible battery type.	Ensure DC connector is firmly attached. Verify battery is 24V lead-acid. Check battery voltage.
Charger gets excessively hot	Poor ventilation; blocked cooling fan; prolonged high-current charging in hot environment.	Ensure adequate ventilation. Clear any obstructions from the fan. Allow charger to cool down. If overheating persists, contact support.
Battery not charging or charging slowly	Poor connection; battery fault; charger fault.	Check all connections. Test battery with a multimeter. Contact support if battery is confirmed good and charger is not performing.

COMPLETE PROTECTION

8 Protection Functions



Image: An illustration detailing the 8 comprehensive protection functions of the YUANRI charger, including overvoltage, overheating, overcurrent, and reverse connection protection.

9. SPECIFICATIONS

Feature	Detail
Brand	YUANRI
Model Number	Forklift Battery Charger 24V 25A
Input Voltage	100-240VAC, 50/60Hz
Output Voltage	24 Volts (DC)
Output Current	25 Amps

Feature	Detail
Battery Type	Lead-Acid Batteries
Protection Rating	IP67 Waterproof
Product Dimensions (D x W x H)	7.51" x 4.8" x 2.67"
Item Weight	5.2 Pounds
Cable Length (Power + Charging)	9.8 ft total (4.9 ft each)
Certifications	CE, FCC, RoHS, ETL

CE/ FCC/ ROHS/ ETL SAFETY CERTIFICATION



FCC

ETL

Image: Display of the safety certifications (CE, FCC, RoHS, ETL) obtained by the YUANRI 24V 25A Forklift Battery Charger, ensuring compliance with international standards.

10. WARRANTY & SUPPORT

The YUANRI 24V 25A Forklift Battery Charger comes with a **3-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact YUANRI customer service through the retailer where the product was purchased. Please retain your proof of purchase for warranty validation.

For further assistance, please refer to the contact information provided with your purchase or visit the official YUANRI store page.