

1. Overview

The Tyrell Chenergy HH974 is a heavy-duty 12V/24V jump starter designed for starting vehicles with gas or diesel engines, including trucks and heavy-duty equipment. It also functions as a portable power source for USB and 12V DC devices.



Key Capabilities:

- **Jump Starting:** Provides 2800 peak amps for 12V systems and 1400 peak amps for 24V systems.
- **Power Supply:** Features dual USB ports and a 12V DC outlet to power or charge other devices.
- **Design:** Constructed with an impact-resistant ABS/TPE shell and includes industrial-grade clamps with pure copper connections.

2. Specifications

- **Model Number:** HH974
- **Battery Type:** Sealed Lead Acid (Maintenance-Free)
- **Battery Capacity:** 40 Amp Hours (2 x 20Ah batteries)

- **Peak Output:** 2800 Amps (12V) / 1400 Amps (24V)
- **Output Ports:** Dual USB ports, One 12V DC outlet (supports up to 11A)
- **Jumper Cables:** 32-inch length, #6 Gauge, with pure copper heavy-duty clamps
- **Safety Features:** Reverse polarity indication and alarm
- **Indicators:** Color LED battery status indicator, LED work light
- **Dimensions:** 11.7"D x 14.9"W x 13.7"H
- **Weight:** 30 lbs

3. What's Included

- Tyrell Chenergy 12V/24V Jump Starter (HH974)
- AC Wall Charger
- Car Charger
- User Manual
- Gift Box

4. Features and Components Guide

4.1 Front Panel and Controls

The main interface contains the following elements:

- **LED Battery Status Indicator:** Displays the current charge level of the internal battery.
- **LED Work Light:** Provides emergency lighting.
- **Dual USB Ports:** For charging phones, tablets, cameras, and other USB devices.
- **12V DC Power Outlet:** For powering automotive accessories like tire inflators, car refrigerators, or inverters (max 11A load).
- **Charging Socket:** For connecting the included AC wall charger or car charger.

4.2 Jumper Cables and Clamps

- **Cables:** 32-inch long, #6 gauge wires for high current transfer.
- **Clamps:** Industrial-grade "Hot Jaw" clamps with pure copper insulated jaws designed to cut through battery corrosion.
- **Safety:** The unit features reverse polarity detection. An alarm will sound if the clamps are connected incorrectly to a vehicle battery.

4.3 Housing and Build

The unit is housed in an ABS/TPE shell designed to be durable and shockproof for use in garages, construction sites, and farms.

5. Usage Instructions

WARNING: Always read all instructions before use. Incorrect use can lead to property damage, battery explosion, or severe injury. Ensure the jump starter and vehicle batteries are compatible (12V or 24V).

5.1 Charging the Jump Starter

To maintain battery health and ensure readiness:

1. Connect the provided AC wall charger to the unit's charging socket and a standard wall outlet.
2. **Important:** When using the car charger, the flat plug must be connected to a 12V vehicle socket (cigarette lighter port).
3. The LED battery indicator will show the charging status. Charge fully before first use and after each use.
4. **Storage:** If not in use, recharge the device at least every 60 days to maintain battery health.

5.2 Jump Starting a Vehicle (12V or 24V)

1. **Prepare the Jump Starter:** Ensure the unit is sufficiently charged. Turn off all accessories on the vehicle (radio, lights, etc.).
2. **Identify Battery Terminals:** Locate the vehicle's battery. Identify the positive (+) and negative (-) terminals.
3. **Connect the Clamps:**
 - Connect the RED positive (+) clamp to the positive (+) terminal of the dead vehicle battery.
 - Connect the BLACK negative (-) clamp to a clean, unpainted metal part of the vehicle's engine block or chassis, away from the battery and fuel lines. **Do not connect directly to the negative battery terminal if possible.**
4. **Safety Check:** Ensure cables are clear of moving engine parts. The unit will sound an alarm if the clamps are connected with reverse polarity. If this happens, disconnect immediately and correct the connections.

5. **Start the Vehicle:** Turn the ignition to start the vehicle. It should start within a few seconds.
6. **Disconnect the Clamps:** Once the vehicle is running, disconnect the clamps in the reverse order:
 1. Remove the BLACK negative (-) clamp from the vehicle.
 2. Remove the RED positive (+) clamp from the battery terminal.
7. **Recharge:** Recharge the jump starter as soon as possible after use.

5.3 Using the Power Ports

- **USB Ports:** Connect your USB device using a standard USB cable. The ports provide fast charging for compatible devices.
- **12V DC Outlet:** Plug in any 12V automotive accessory with a standard car plug adapter. Do not exceed a continuous load of 11 Amps.

6. Safety Information

- This product contains a sealed lead-acid battery. Do not open, puncture, or incinerate the battery.
- Keep away from children and pets.
- Do not expose the unit to fire, excessive heat, or immerse in water.
- Always connect and disconnect clamps in the correct order as described in Section 5.2.
- Do not touch the clamps together while the unit is powered on.
- Use only the provided chargers or approved replacements.
- The reverse polarity alarm is a critical safety feature. If it sounds, stop and check your connections immediately.

7. Troubleshooting

- **Unit does not power on/USB ports not working:** The internal battery may be depleted. Recharge the unit fully.
- **Alarm sounds when connecting to a vehicle:** This indicates reverse polarity. Immediately disconnect the clamps and verify the correct connection to the vehicle's positive and negative points.
- **Vehicle does not start:**
 - Ensure the jump starter is adequately charged (check LED indicator).
 - Verify all clamp connections are clean, secure, and correct.

- The vehicle's battery or starting problem may be too severe for a jump start.
- **Unit will not hold a charge:** If the unit has been stored for a long period without charging, the battery may be damaged. Refer to warranty and support.

8. Warranty and Support

The manufacturer provides a 12-month after-sales service period. This service includes product use instructions, product protection, repair, and replacement.

For support, contact the seller through your Amazon purchase history or visit the Tyrell Cheney Store on Amazon.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.