

## Overview

The LIHAN 3 USB Car Charger is a multi-port adapter designed for use in vehicles. It plugs into a standard 12V/24V DC cigarette lighter socket and provides three USB charging ports and one additional cigarette lighter socket for powering other devices.



# Features & Specifications

## Physical Features

- **Three USB Ports:** One Quick Charge 3.0 (QC3.0) port and two standard USB ports.
- **Cigarette Lighter Socket:** One additional 12V/24V power outlet.
- **Voltage Meter:** A digital display with soft LED backlight shows the vehicle's electrical system voltage.
- **Construction:** Plastic enclosure.



## Technical Specifications

<b>Input Voltage</b>	12V / 24V DC
<b>Total USB Ports</b>	3
<b>QC3.0 Port Output</b>	5V, 9V, 12V (Variable based on device)
<b>Dual USB Ports Combined Output</b>	5V / 3.1A Max
<b>Cigarette Lighter Socket Output</b>	60W Max
<b>Amperage</b>	3.4 Amps
<b>Connector Type</b>	USB Type C (for included cable)
<b>Model Number</b>	HY10

## Safety Features

- Protection against short circuits, overheating, overcurrent, overvoltage, and overcharging.
- Built-in intelligent chip adjusts output current to match the connected device.
- Complies with UL specifications.



## Use Guide

### Installation

1. Ensure your vehicle's engine is off or in accessory mode.
2. Insert the car charger firmly into your vehicle's 12V/24V cigarette lighter socket.
3. The voltage meter display will illuminate, showing your vehicle's current system voltage.

### Charging Devices

- **For Fast Charging:** Connect a compatible Quick Charge 3.0 device (e.g., certain Android phones) to the **QC3.0 USB port**.
- **For Standard Charging:** Connect smartphones, tablets, or other USB devices to any of the three USB ports. The charger will automatically provide the appropriate current.
- You can charge up to three USB devices simultaneously.



## Using the Cigarette Lighter Socket

The auxiliary cigarette lighter socket can power other 12V/24V car accessories such as:

- GPS units
- Dash cams
- Portable car vacuum cleaners
- Car refrigerators or air compressors (check device power rating against the 60W max output)

## Interpreting the Voltage Meter

The digital display provides real-time monitoring of your vehicle's electrical system.

- **Engine Off (Normal):** 12.8V - 12.2V
- **Engine Running (Normal):** 14.8V - 13.4V

**Note:** If the displayed voltage is consistently below 12V, it may indicate a weak or failing vehicle battery. Consult a professional automotive repair service.



## Compatibility

The charger is compatible with a wide range of USB-powered devices, including but not limited to:

- **Apple:** iPhone 16/15/14/13/12/11/X/8/7/6/5 series, iPad, iPod.
- **Samsung:** Galaxy S, Note, Z Fold/Flip, Tab series.
- **Google:** Pixel, Nexus series.
- **Other Brands:** Phones and tablets from Motorola, LG, HTC, Sony, OnePlus, Kindle, and more.
- **Other Devices:** Bluetooth speakers, headphones, portable GPS units, dash cams.

*Note: Fast Charging (QC3.0) only works with devices that support the Quick Charge 3.0 protocol.*

## What's Included

- LIHAN 3 USB Car Charger (Model HY10)
- 1 x Cable (Type C connector as per specifications)

## Warranty & Support

This product is backed by a **12-month limited warranty** from the date of purchase.

**Manufacturer:** INTRO UNIOIN ELECTRONICS CO LIMITED

### Warning

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