



Powerology

Élan 240W Dual USB-C & USB-A Car Charger

SKU: PWH40GY

Table of Contents

Product Introduction	2
Structural Diagram	2
Safety Information	3
Usage Instructions	5
Specifications	6
Key Features	7
Frequently Asked Questions	7
Troubleshooting	9
Disposal	10
Warranty	10
Contact Us	11

Product Introduction

The Élan Dual USB-C & USB-A Car Charger delivers superior power in a refined, compact design built for modern in-vehicle charging. With two USB-C ports and one QC 3.0 USB-A port, it supports advanced PD3.1, PPS, QC5, SCP and FCP protocols to charge smartphones, tablets and laptops simultaneously at ultra-fast speeds. A single USB-C1 port delivers up to 140W, and the charger provides up to 164W total output when multiple ports are used at once. Universal 12–24V DC compatibility makes it suitable for cars, SUVs and light trucks, while the ambient RGB accent ring adds a stylish touch to any dashboard.



Structural Diagram

The car charger features three output ports on the top face and a 12–24V plug on the base for the vehicle's cigarette lighter socket. An RGB ambient light ring surrounds the port face for easy identification in low light.



1. USB-C1 Port (140W Max)
2. USB-C2 Port (100W Max)
3. USB-A Port (QC 3.0)
4. RGB Ambient Light Ring
5. 12–24V Car Plug

Safety Information

Warning:

1. Use only in vehicles with a 12–24V DC accessory or cigarette lighter socket that matches the charger's rated input.
2. Do not use the charger if the housing, USB ports or connector pins are cracked, bent or damaged.
3. Do not expose the charger to water, rain, snow or high humidity, and keep it away from spilled liquids inside the vehicle.
4. Do not cover the charger during use or operate it near flammable materials, as it can become hot under high-power loads.
5. Do not insert metal objects, fingers or foreign matter into the USB ports.
6. Do not disassemble, modify or attempt to repair the charger — there are no user-serviceable parts inside.

7. Do not exceed the rated output of each port, and do not connect devices that are incompatible with the supported charging protocols.
8. Do not operate the charger in vehicles with damaged wiring or a faulty accessory socket, as this may cause overheating, fire or electrical damage.
9. Do not use the charger in a way that distracts the driver; connect and arrange cables before starting to drive.
10. Immediately unplug the charger and discontinue use if it emits smoke, an unusual odour, shows discoloration or becomes excessively hot.
11. Do not use frayed, damaged or uncertified USB-C or USB-A cables with this charger; replace any cable that shows signs of wear or damage.

Attention:

1. Confirm your vehicle's socket delivers 12-24V DC before plugging in the charger.
2. Remove the charger by gripping its body, not by pulling on connected USB cables.
3. Use only quality USB-C and USB-A cables rated for the intended power level; an EPR-rated cable is required to reach 28V/5A output.
4. Keep the charger and cables out of the reach of children, especially when parked.
5. Unplug the charger from the socket when the vehicle is not in use to avoid draining the battery.
6. Store the charger in a dry place and avoid leaving it in direct sunlight or extreme heat inside a closed vehicle.
7. Wipe clean with a dry, soft cloth only; do not use solvents or abrasive cleaners.
8. Standardised voltage range references throughout this manual use 12-24V DC.
9. This product complies with applicable CE, and RoHS requirements as indicated on the packaging.

Usage Instructions

1. Getting Started

Ensure your vehicle's 12–24V DC accessory socket (cigarette lighter) is clean and free of debris.

Turn the vehicle ignition on or start the engine as required by your car's electrical system.

Insert the charger firmly into the accessory socket until it is fully seated.

The RGB ambient light ring will illuminate to confirm the charger is powered.

2. Charging a Single Device at Maximum Speed

For the fastest charge, connect your device to the USB-C1 port using a USB-C PD cable.

USB-C1 delivers up to 140W, ideal for USB-C laptops and high-power tablets.

For EPR (Extended Power Range) charging at 28V/5A, use a certified EPR-rated USB-C cable.

The charger automatically negotiates the highest supported protocol with your device.

3. Charging Multiple Devices Simultaneously

Connect up to three devices using USB-C1, USB-C2 and USB-A at the same time.

Smart Power Distribution will automatically allocate wattage across the active ports.

When USB-C2 and USB-A are used together, they share a combined 5V/4.8A output.

Total simultaneous output is capped at 164W to protect all connected devices.

4. Disconnecting

Unplug the charging cables from your devices first.

Grip the charger housing and pull it straight out of the accessory socket.

Do not leave the charger plugged in for extended periods when the vehicle is off, to avoid draining the car battery.

Specifications

Input	DC 12–24V
USB-C1 Output	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A, 140W Max
USB-C2 Output	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A, 100W Max
USB-A Output	5V/3A, 9V/2A, 12V/1.5A, 18W Max
USB-C2 + USB-A Output	5V/4.8A
USB-C1 EPR Mode Output	28V/5A (with EPR Cable)
Total Output (Multi-Port)	164W
Single-Port Max Output	140W (USB-C1)
Supported Charging Protocols	PD3.1, PPS, PD3.0, QC5, QC4, QC3, SCP, FCP
Product Material	PC
Product Weight	49.8 g
Product Size	80 × 38 × 38 mm
Model Number	PWH40

Key Features

1. Up to 164W total output with 140W single-port max for charging laptops, tablets and smartphones at full speed
2. Dual USB-C ports (140W + 100W) plus a QC 3.0 USB-A port for three-device simultaneous charging
3. Smart Power Distribution automatically balances output across all connected devices
4. Supports the latest PD3.1, PPS, QC5, SCP and FCP fast-charging protocols
5. USB-C1 EPR mode delivers up to 28V/5A with a compatible EPR cable
6. Universal 12–24V compatibility for cars, SUVs, vans and light trucks
7. RGB ambient light ring for a refined in-cabin aesthetic
8. Compact PC housing weighing only 49.8 g

Frequently Asked Questions

1. Which vehicles is this car charger compatible with?

The Élan works with any vehicle that has a standard 12V or 24V accessory socket, including most cars, SUVs, vans and light trucks.

2. Can I charge a USB-C laptop with this charger?

Yes. Connect the laptop to USB-C1 with a USB-C PD cable to receive up to 140W, sufficient for most USB-C powered laptops.

3. What is EPR mode and how do I enable it?

EPR (Extended Power Range) delivers 28V/5A on USB-C1 for devices that support PD3.1 EPR. It is enabled automatically when you connect a compatible device using a certified EPR-rated USB-C cable.

4. Will the total output drop when all three ports are used?

Yes. Individual ports can deliver up to 140W, but when charging multiple devices at once the total combined output is 164W, distributed intelligently across the active ports.

5. Is it safe to leave the charger plugged in all the time?

The charger only draws power when devices are connected, but for best practice remove it or switch off the ignition when the vehicle will not be used for extended periods.

6. What charging protocols are supported?

The charger supports PD3.1, PPS, PD3.0, QC5, QC4, QC3, SCP and FCP, ensuring fast charging compatibility with virtually all modern smartphones, tablets and laptops.

Troubleshooting

Problem	Likely Cause	Solution
Charger does not power on	Accessory socket has no power or fuse is blown	Check the vehicle's fuse for the accessory socket and replace if needed; try another socket.
RGB light ring is off	Charger not fully seated in the socket	Remove and reinsert the charger firmly until it clicks into place.
Device is charging slowly	Non-compatible or low-quality cable in use	Use a certified USB-C PD or QC 3.0 cable rated for the required wattage.
Laptop not receiving 140W	Cable not rated for 100W+ or EPR	Use an EPR-rated USB-C cable (5A e-marked) for full 140W / 28V EPR output.
Only one device charges when three are connected	Total 164W limit reached	Disconnect one device or accept reduced wattage per port under Smart Power Distribution.
Charger becomes warm during use	Normal behaviour under heavy load	Ensure adequate airflow around the charger; performance is unaffected.
Charger shuts off during use	Over-temperature or over-current protection triggered	Unplug the charger for a few minutes, remove any high-draw device, then reconnect.

Problem	Likely Cause	Solution
USB-A port not fast charging	Device does not support QC 3.0	Standard 5V charging will apply; use a USB-C port for higher-speed protocols.
Device not detected on USB-C2 + USB-A combined	Shared 5V/4.8A output limit	Disconnect one of the two ports to allow the remaining port to negotiate a higher-power profile.
Charger falls out of the socket	Worn or non-standard vehicle socket	Try a different socket in the vehicle; have the loose socket inspected if the problem persists.
No output from any port	Vehicle ignition off in cars that gate accessory power	Turn the ignition to the accessory or ON position.
Intermittent charging	Loose cable or damaged connector	Inspect and replace the charging cable; ensure connectors are fully inserted.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our Powerology website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our Powerology website or store. If Powerology products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website www.powerology.me/warranty and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check: www.powerology.me/warranty

Contact Us

Email: **hey@powerology.me**

Website: **www.powerology.me**

Instagram: **[powerology_official](https://www.instagram.com/powerology_official)**

Facebook: **[powerology.ME](https://www.facebook.com/powerology.ME)**