



# EV Buddy

## V2L Adapter (AC)

AC Type 2 → T23 (Swiss)  
User Manual



*Three coded variants — one manual*

**470 / 2000**  
Ω coding

**330 / 2700**  
Ω coding

**62 / 680**  
Ω coding

**\* Please read this manual carefully before using the product and keep it for future reference.**

Design standard: IEC 62196-3. Plug and socket types may vary depending on the country of use.

## 01 Preface

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This document contains everything you need to use your EV Buddy V2L Adapter safely: important safety instructions, a product introduction, the differences between the three variants, technical specifications and operating guidelines. Please read it carefully before first use.

This manual applies to all EV Buddy V2L Adapter variants. They are identical in design, handling and safety requirements, and differ only in their **V2L resistor coding** and therefore in the vehicle brands they support. See **Section 04 — The variants** to identify the right adapter for your car.

- Pay special attention to the Safety Instructions (Section 03) to avoid injury and property damage.
- The location of the discharge port varies by vehicle model. Refer to your vehicle's user manual for its position and for detailed discharging instructions.
- Keep this user manual in a safe place for future reference.

## Contents

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<b>01</b>	Preface.....	2
<b>02</b>	Product introduction.....	3
<b>03</b>	Safety instructions.....	3
<b>04</b>	The variants — find your adapter.....	4
<b>05</b>	Product at a glance.....	5
<b>06</b>	Technical specifications.....	5
<b>07</b>	What you can power.....	6
<b>08</b>	Operating instructions.....	6
<b>09</b>	Troubleshooting.....	7
<b>10</b>	Scope of delivery.....	7
<b>11</b>	Warranty & service.....	7

## 02 Product introduction

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The EV Buddy V2L Adapter uses the **Vehicle-to-Load (V2L)** function of your electric vehicle to power ordinary electrical appliances directly from the car battery — on the road, at the campsite, at events or in an emergency. V2L technology lets your vehicle act not only as something that is charged, but as a power source for external devices, with no extra station or generator required.

The adapter connects to your car's **Type 2** charging socket and provides a **Swiss T23 outlet** for 230 V AC. Simply plug the Type 2 connector into the vehicle, then connect any device with a T13 / T23 plug. This turns the energy stored in your car into a flexible, mobile power supply — wherever you happen to be.

### \* A core part of the new-energy lifestyle




It transforms your car from a means of transport into a "mobile power station" for outdoor living, emergency backup power and entertainment.

## 03 Safety instructions

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### 3.1 Safety tips

- To ensure safe use and avoid harm to yourself and others, as well as property damage, you must observe the safety points below.
- Failure to follow these warnings, or incorrect use, may lead to accidents.

	<b>Warning</b> — indicates a hazard that may lead to death or serious injury.
	<b>Caution</b> — indicates a hazard that may lead to minor injury or property damage.
	<b>Note</b> — a friendly reminder.

### 3.2 Safety precautions

#### **Keep away from flammable materials**

Do not place the product close to flammable, explosive or other materials that can easily generate ignition sources. Doing so may cause product damage, fire or personal injury.

#### **Do not let children operate the product**

Do not allow children to operate or use the product, and never treat it as a toy. Keep it out of the reach of children.

#### **Do not modify**

If the plug or any other component is damaged, stop using the product immediately. Take it to a designated service point for replacement or repair by professionals to prevent injury.

#### **Do not overload**

Use the product only within the current-carrying range stated in the specifications. Do not use it under overload conditions.

#### **Handling dirt**

Clean with a dry cloth only, to avoid poor electrical contact.

**\* Storage**

Store the product in a cool, dry environment.

## 04 The variants — find your adapter

All adapters are mechanically and electrically identical. What differs is the **V2L resistor coding** that tells the car which discharge mode to enable. Choose the variant that matches your vehicle's coding (your dealer or vehicle documentation can confirm it). If your car supports V2L but is not listed, contact us — coding can usually be matched.

	V2L 470 / 2000	V2L 330 / 2700	V2L 62 / 680
<b>V2L coding</b>	470 Ω · 2000 Ω	330 Ω · 2700 Ω	62 Ω · 680 Ω
<b>Typical brands</b>	BYD, MG, Leapmotor, NETA	Renault, Alpine, Smart, Volvo, Polestar, Xpeng, Geely, Zeekr	Hyundai, Kia, Genesis, Peugeot, Citroën, Opel, Fiat, DS, Jeep, Alfa Romeo, Lancia
<b>Article no.</b>	200.0077	200.0078	200.0079
<b>Part number</b>	ev-buddy-v2l-470-2000	ev-buddy-v2l-330-2700	ev-buddy-v2l-62-680
<b>Output AC</b>	16 A · 230 V · up to 3.7 kW		
<b>Electric outlet</b>	T23		
<b>Warranty</b>	24 months (bring-in)		

### Supported brands in detail

**EV Buddy V2L 470 / 2000 Ω**

BYD · MG · Leapmotor · NETA — and other brands that support V2L with 470 Ω or 2000 Ω coding.

**EV Buddy V2L 330 / 2700 Ω**

Renault · Alpine · Smart · Volvo · Polestar · Xpeng · Geely · Zeekr — and other brands that support V2L with 330 Ω or 2700 Ω coding.

**EV Buddy V2L 62 / 680 Ω**

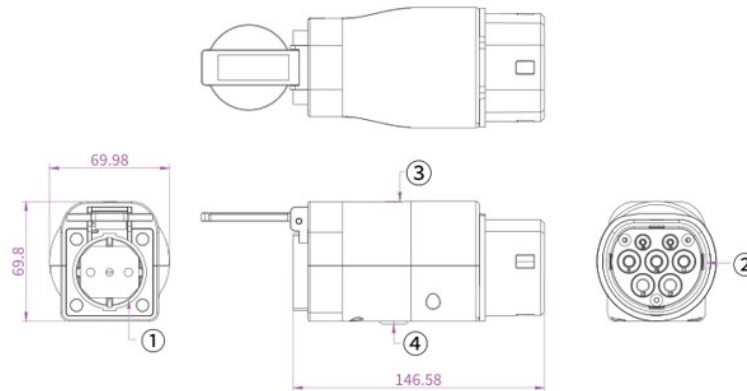
Hyundai · Kia · Genesis · Peugeot · Citroën · Opel · Fiat · DS · Jeep · Alfa Romeo · Lancia — and other brands that support V2L with 62 Ω or 680 Ω coding.

**\* Not sure which one fits?**

Our specialists are happy to help: +41 52 533 22 76 · info@ev-buddy.ch. Brand support depends on the vehicle's V2L coding, not only on the make.

## 05 Product at a glance

The illustration below shows the adapter and its main parts (Diagram 1).



No.	Part	Function
1	Swiss T23 socket outlet	230 V AC output for T13 / T23 plugs
2	Type 2 discharge head	Connects to the vehicle's Type 2 port
3	Adapter body	Houses the electronics and coding
4	Hook switch	Switches the circuit

## 06 Technical specifications

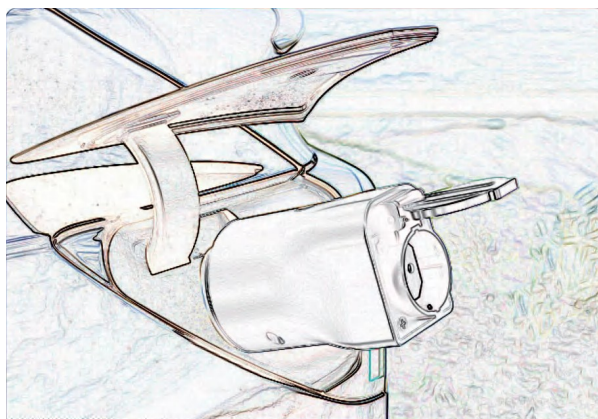
The following specifications apply to all three variants. The variants differ only in their V2L coding (see Section 04).

Parameter	Value
Rated current	16 A max
Phase / voltage	Single-phase, 230 V AC
Maximum output power	Up to 3.7 kW
Rated voltage	250 V AC max
Vehicle connector	Type 2 (IEC 62196)
Output socket	Swiss T23 (accepts T13 / T23 plugs)
Insulation resistance	> 100 MΩ
Contact resistance	≤ 0.5 mΩ
Ingress protection	IP54 (after coupling)
Terminal temperature rise	< 50 K
Insertion / extraction force	< 100 N
Mechanical durability	> 10,000 no-load mating cycles
Operating temperature	-30 °C to +50 °C; built-in protection shuts the adapter down at a body temperature of 85 °C
Housing material	Silicone PC / PA66 + 25% GF
Conductor	Copper alloy, silver-plated surface

Parameter	Value
Dimensions (L × W × H)	146.58 × 69.98 × 69.8 mm
Warranty	24 months (bring-in)

## 07 What you can power

This product is designed for Type 2 European-standard vehicles with V2L capability. It safely outputs AC power from the vehicle battery to a wide range of devices — greatly expanding how you can use your car. The adapter delivers **up to 3.7 kW at 230 V and up to 16 A**.



### Suitable for

- ✓ Coffee machine
- ✓ Laptop & consumer electronics
- ✓ Fridge / cooler
- ✓ Electric grill
- ✓ E-bike charger
- ✓ Camping cool box
- ✓ Hair dryer
- ✓ Vacuum cleaner
- ✓ Power drill
- ✓ Pressure washer

### Not intended for

- ✗ Large heaters above 3.5 kW
- ✗ Tankless / instantaneous water heaters
- ✗ High-power hotplates or grills above 3.5 kW

#### ⚠ Stay within the power limit

Loads above roughly 3.5 kW will exceed the adapter's rating and may trigger the over-temperature protection. Match the appliance's power draw to the 3.7 kW / 16 A limit.

## 08 Operating instructions

1. Make sure the vehicle is in **Park**. Insert the adapter's Type 2 connector into the vehicle's discharge port, activate the V2L (Vehicle-to-Load) discharging function, and set the minimum battery level you want to keep in reserve.
2. Plug your appliance into the **T23 outlet** to start the power supply.
3. To stop, **first unplug the appliance**, then remove the V2L adapter from the vehicle.

#### \* Where is the discharge port?

The location of the discharge port varies by vehicle model. Refer to your vehicle's user manual for its position and detailed discharging instructions.

## 09 Troubleshooting

### Power supply interruption

Possible cause	Solution
Over-temperature protection triggered	Unplug the adapter, let it cool for 5–15 minutes, then restart.
Internal cable is loose	Contact a professional to fix and tighten the internal connectors.
Electrical device malfunction	Replace the electrical device.

#### \* If a fault persists

Stop using the adapter and contact EV Buddy or your local agent. Do not open or repair the product yourself.

## 10 Scope of delivery

No.	Item	Qty
1	EV Buddy V2L Adapter (Type 2 → T23)	1
2	User manual	1

## 11 Warranty & service

If the product malfunctions, please contact EV Buddy or your local agent. This product carries a **24-month bring-in warranty**.

### Not covered by the warranty

- Damage caused by improper handling, use, storage or maintenance, or any human-induced damage.
- Repairs performed by non-authorized service centres, or user disassembly / repair.
- Damage caused by force majeure.
- Use beyond the warranty period.

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