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FROM VEHICLE POWER TO 5 VOLTS

Converterset 12V-5V

User manual

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Welcome

Thank you for choosing the Neroo Converterset 12V-5V.

With this set you permanently connect a 5 V device to the electrical system of your motorhome, caravan, boat or car. The converter accepts anything between 8 and 32 volts and turns it into a stable 5 volts on a standard USB output. No more loose cables or cigarette lighter plugs.

Most people use the set for the alarm panel: the CamperGuard Pro, the ShieldLink Pro or the ShieldLink Marine. But it works just as well for other 5 V devices, such as the Neroo Cam 2 or the GasRadar.

WARNING

Never connect an alarm panel directly to the vehicle's electrical system, not even to a 12 V input on the panel. A vehicle's power supply fluctuates between 8 and 32 volts when charging, starting or with a flat battery, and that destroys the panel. Always let the power run through the converter to the panel's USB-C port.

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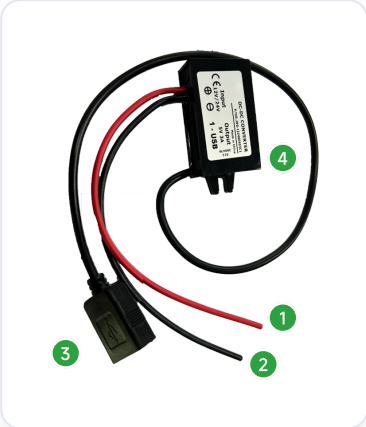
1 What is in the set?



The converter — the numbers are explained in the table below

No.	Part	What it does
1	Red wire (+)	Input plus: goes to the plus of the vehicle's power supply
2	Black wire (–)	Input minus: goes to the minus (ground) of the vehicle's power supply
3	USB output	Stable 5 volts, up to 3 A. Connect your device's USB cable here.
4	Converter	Converts 8 to 32 volts into 5 volts and protects your device against voltage spikes



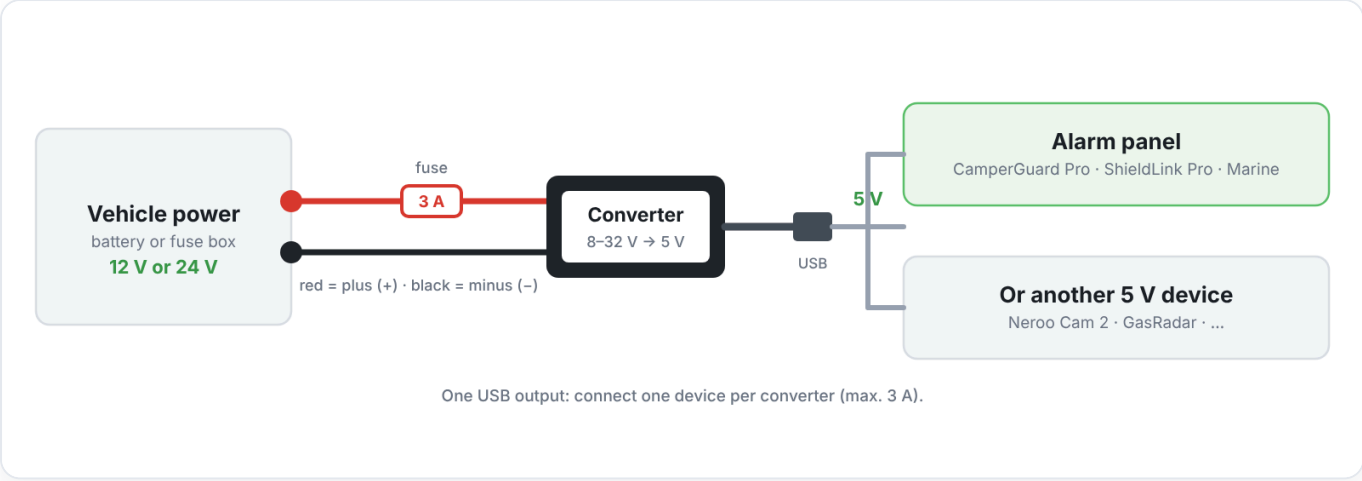
2× H2 connector — one detachable connection



2× T-tap with flat connector — tap off without cutting

There are two ways to connect the converter. With the H2 connector you connect it to two loose power wires and can disconnect it again later. With the T-taps you tap into a cable that already runs through your vehicle, without cutting anything. You choose one of the two; the other set is then spare.

2 How it works



The vehicle's power runs through the converter to your device

- Works on 12 V and 24 V. Anything between 8 and 32 volts becomes a stable 5 volts.
- One USB output of up to 3 A: connect one device per converter.
- Protected against short circuit, overload, reverse polarity, overheating and undervoltage.
- No soldering needed: you click or crimp the H2 connector and the T-taps in place.

GOOD TO KNOW

Using the set for your alarm panel? Then connect it to a plus that always has power, so not via the ignition. That way your alarm stays on when the engine is off and you take the key out.

3 Preparation

Choose a power point

- Best is a free, fused connection in the fuse box, or a 12 V cable that already runs to where the panel goes, for example from a light or a 12 V socket.
- Choose a plus that always has power, even with the ignition off. Not sure? Measure it with a multimeter, or check whether the light or socket works with the ignition off.
- Connecting directly to the battery? Then put a 3 A fuse in the red wire, as close to the battery as possible.
- The minus (–) can go to any ground point or black minus wire.

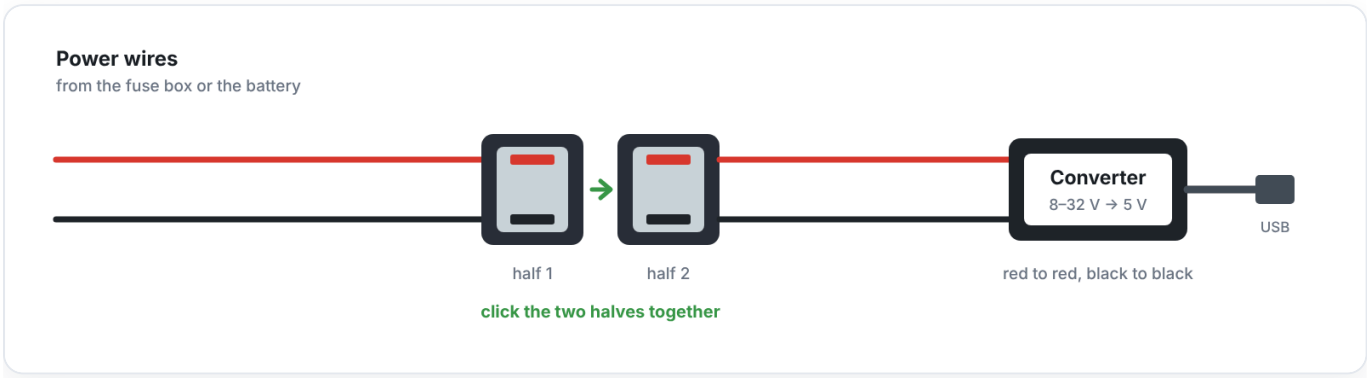
Choose a spot for the converter

- In a dry, sheltered place, for example behind a panel, in a cupboard or under the dashboard.
- Not right next to the heater, the engine or other warm places.
- Secure it with a cable tie or double-sided tape so it does not rattle.

WARNING
Remove the fuse or switch off the main switch before working on the wiring. That prevents short circuits and sparks.

4 Connecting with the H2 connector

Use this method if you have two loose power wires, a red plus and a black minus. The H2 connector consists of two halves: one goes on the power wires, the other on the converter's wires. Then you click them together. You do not need to strip the wires: the connector makes contact through the insulation by itself.



Power wires and converter, with the H2 connector in between



Open the cover



Insert the wires



Close the cover

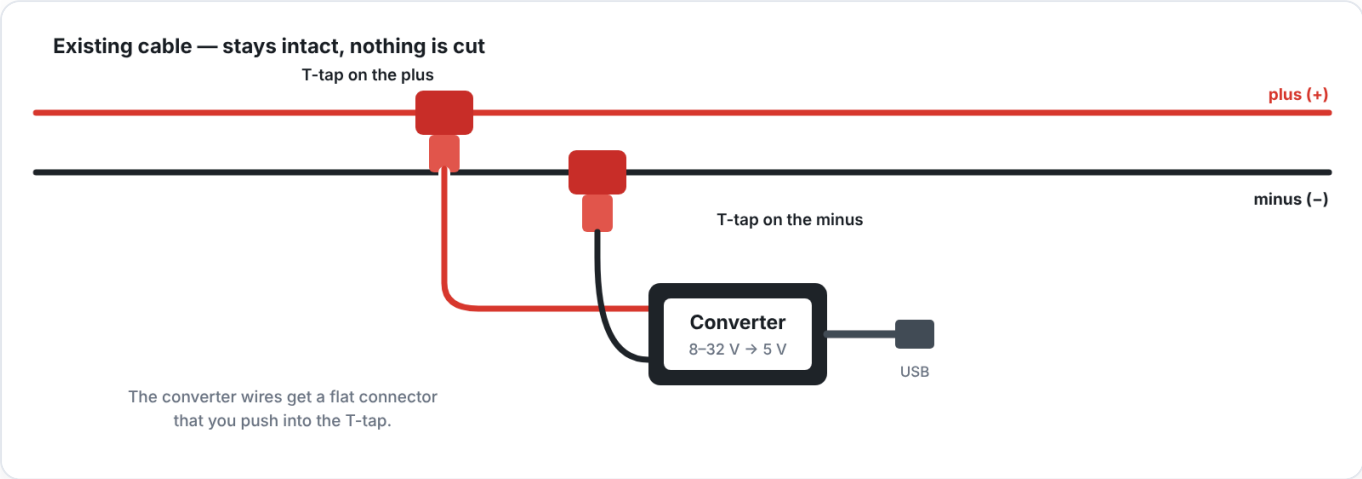


Click together

1. Flip open the clear cover of the first half.
2. Lay the red power wire in one opening and the black one in the other. Push them all the way in, until they reach the end. Briefly hold the two halves together the way they fit, so you know which side red goes on.
3. Press the cover firmly shut until it clicks. If it is stiff, carefully squeeze it shut with pliers. The blades in the connector now make contact through the insulation.
4. Do the same with the second half on the converter's wires: red to red, black to black. If it is the wrong way round after all, nothing happens; the converter is protected and simply gives no power.
5. Click the two halves together. Want to remove the converter later? Just pull them apart again.

5 Connecting with the T-taps

Use this method if you want to tap into a cable that already runs through your vehicle. The existing cable stays intact: the T-tap pushes a metal blade through the insulation and makes contact that way. You use one T-tap for the plus and one for the minus. The T-taps fit wires of 0.5 to 1.5 mm²; if the existing cable is thicker, use the H2 connector.



Two T-taps on the existing cable, the converter taps off from them



Wire in the T-tap



Squeeze shut



Crimp the connector



Push the connector in

1. Lay the existing plus wire in the groove of the T-tap, the groove with the metal blade.
2. Squeeze the blade all the way down with pliers, until it is flush with the top. Then fold the cover shut until it clicks.
3. Strip about 5 mm from the end of the converter's red wire. Insert it into the flat connector and crimp the sleeve firmly with (crimping) pliers. Give it a tug: it must sit rock solid.
4. Push the flat connector into the T-tap until it is fully in.
5. Repeat steps 1 to 4 for the minus: a T-tap on the existing black minus wire and the flat connector on the converter's black wire.

6 Connecting your device

Alarm panel (CamperGuard Pro, ShieldLink Pro, ShieldLink Marine)

1. Plug the panel's USB cable into the converter's USB output and the other end into the panel's USB-C port.
2. Put the fuse back or switch the main switch back on. The panel starts up.
3. Set the backup switch on the back of the panel to "ON". The panel then keeps working if the vehicle's power briefly drops out.
4. Test it: switch off the ignition and take the key out. The panel must stay on. Arm and disarm the alarm to check that everything works.

Other 5 V device (Neroo Cam 2, GasRadar and the like)

Plug the device's USB cable into the converter's USB output. The device now gets power as soon as the vehicle's power supply is on. The converter delivers up to 3 A; that is plenty for one camera, gas detector or alarm panel.

GOOD TO KNOW
Route the cables neatly with cable ties and make sure they do not run along sharp edges or moving parts.

7 Troubleshooting

Problem	Cause	Solution
Device gets no power	Plus and minus are reversed	Swap red and black. The converter is protected and is not damaged.
Device gets no power	The H2 connector or T-tap makes no contact	Squeeze the cover or blade further shut and check the wire is fully in
Device gets no power	Fuse has blown or the main switch is off	Check the fuse and the main switch
Device switches off when the ignition goes off	You are on a plus that runs via the ignition	Choose a plus that always has power
Device briefly drops out when starting	The battery voltage drops below 8 V when starting	On the alarm panel the backup battery handles this; set the backup switch to "ON"
Battery runs flat when the vehicle is parked for a long time	Your device keeps using power	Recharge the battery or connect to shore power or a solar panel

8 Specifications

Input	8 – 32 V DC (12 V and 24 V systems)
Output	5 V DC, up to 3 A (15 W), 1× USB
Protection	Short circuit, overload, reverse polarity, overheating, undervoltage
T-taps	For wires of 0.5 – 1.5 mm² (AWG 22–18)
Environment	−35 to +80 °C · 10 – 90 % RH · indoor use
Dimensions	63 × 27 × 14 mm · ≤ 40 g
Standards	CE · RoHS

9 Warranty & support

Your converter set comes with a manufacturer’s warranty. Questions or need help connecting it? Our team is happy to help.

- E-mail: service@neroo.nl · Phone: +31 85 850 0107
- Manuals, videos and frequently asked questions: neroo.eu/pages/manuals
- End of its life? Hand the converter in at a collection point for electrical appliances (WEEE).

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