

Installation and User Manual

1. Introduction

PowerALERT® is a device designed to alert the driver of a motorhome to the presence of 230V voltage when turning the ignition key to start the engine. It informs the driver to prevent starting the vehicle while the 230V power cable is still connected to an external outlet.

With PowerALERT®, you reduce the risk of damage to your vehicle and/or to the power pedestal caused by pulling the cable when leaving your parking space.

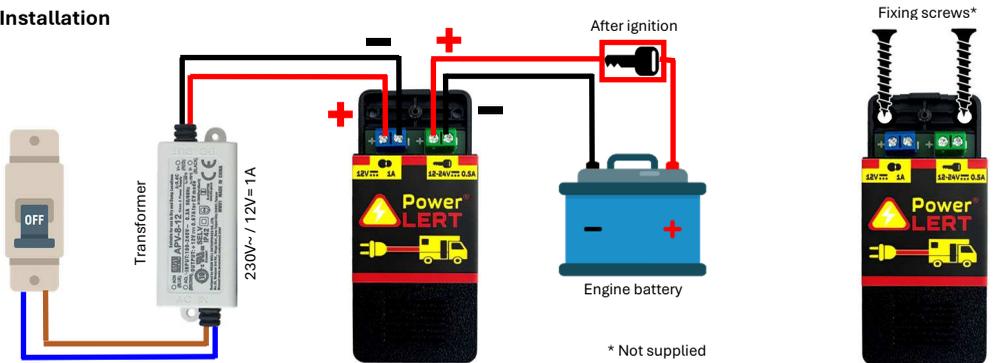
2. Package Contents

- 1 PowerALERT® Unit
- 1 transformer 230V~ / 12V=
- 1 installation and user manual

3. Safety Warning

People responsible for installation and commissioning must have the appropriate qualifications for this type of work: certified electrician or qualified technician. Before installing PowerALERT®, ensure your vehicle is stopped and not connected to 230V power.

4. Installation



4.1. Installation Preparation

PowerALERT® is powered via the supplied transformer which indicates the presence of 230V in the motorhome. This transformer provides 12V DC when the motorhome is connected to mains power.

Position the transformer near a 230V circuit breaker and install PowerALERT® in a dry, ventilated location near the dashboard, ensuring the audible alarm is not obstructed so it remains clearly audible.

Remove the PowerALERT® socket cover and secure the enclosures. Verify proper fastening before connecting cables.

4.2. Connection to the Motorhome Electrical System

4.2.1 Connection to 230V~ du camping-car (via supplied transformer)

Ensure the motorhome 230V plug is not connected to mains before wiring.

Locate a 230V circuit breaker in the electrical panel and connect the transformer primary wires to the breaker output terminals.

Then connect the transformer 12V DC secondary wires to the **BLUE terminal** block of PowerALERT®, carefully respecting polarity.

4.2.2 Connection to 12V= After Ignition

Locate the + and – switched 12V supply in the electrical management unit. Install a 0.5A protection fuse (not supplied).

Connect the +12V after ignition to the **GREEN + terminal**.

Connect ground to the **GREEN – terminal**.

4.3. Checking the connections

Before turning the vehicle's ignition key to test the device, ensure that the polarities are correct and that all connections are secure (terminal block screws properly tightened).

5. How PowerALERT® works

5.1. 230V presence alert in the motorhome

Once the installation is complete, turn the vehicle's ignition key **without starting the engine**.

If the motorhome's 230V cable is not connected to mains power, PowerALERT® will remain silent. There will be no alarm, and you can safely start your engine.

If the motorhome's 230V cable is connected to mains power, PowerALERT® will sound an audible alert. **Do not start your engine and turn off the ignition**. Disconnect your P17 plug from the motorhome and turn the ignition back on. PowerALERT® will remain silent.

5.2. Voltage Detection Alert

When PowerALERT® detects active 230V voltage in your motorhome, it will **only** emit an audible alert but will not prevent the engine from starting, allowing you to start the vehicle with the cable connected to a mains socket.

Audible alert: 230V voltage detected. Engine starting is possible but strongly discouraged.

Silent alert: No 230V voltage detected. The vehicle can start normally and safely.

5.3. Functionality Test

It is recommended to regularly test PowerALERT® to ensure it is working correctly:

1. Connect the motorhome's 230V cable to a mains socket.
2. Turn the ignition key **without** starting the engine; PowerALERT® will sound its alert.
3. Turn the ignition off and disconnect the 230V cable.
4. Turn the ignition key without starting the engine; PowerALERT® will remain silent.

6. Troubleshooting

6.1. Constant alert without the ignition on and the 230V plug unplugged

Check that the PowerALERT® power supply AND the 12V ignition-switched power supply are not connected to the motorhome's 12V system. Use the supplied 230V/12V=0.67A auxiliary transformer to power the PowerALERT® unit via the **BLUE** terminal block and ensure that a 12V ignition-switched power supply is connected to the **GREEN** terminal block.

If the problem persists, contact your dealer.

6.2. No alert despite the presence of 230V and the vehicle's ignition being on

Check for 12V at the **BLUE** PowerALERT® power terminal. If there is no voltage, check the transformer connections (230V and 12V sides).

Check for 12V at the **GREEN** PowerALERT® terminal with the ignition on. If there is no voltage, check your ignition-switched connection.

If the problem persists, contact your dealer.

6.3. A persistent alert appears when I plug the P17 socket into 230V and the ignition is off.

Incorrect connection at the **GREEN** terminal block. It is not 12V after ignition but a permanent 12V.

7. Maintenance

PowerALERT® requires very little maintenance. However, to ensure optimal operation, it is recommended to: Periodically check the electrical connections and the condition of the housing.

Clean the housing with soft and dry cloth. Never use abrasive chemicals.

Regularly test the system as described in section **5.3. Functionality Test**.

8. Technical Support

If you have any questions or encounter any difficulties installing or using PowerALERT®, please contact your reseller.

The hardware is guaranteed for 2 years.

9. Electrical / Environmental Specifications

Supply voltage : 12V= / 1A*

Operating temperature : +5°C à +40°C

Trigger voltage : 12V= ou 24V= / 0,5A

Maximum altitude : 2000m

Protection rating: IP30

Humidity : 15% à 93%

* Obtained via a 12Vdc SELV transformer conforming to EN61558-2-6 or EN62368-1 standards.



EU Declaration of Conformity



In accordance with Directive 2014/30/EU (EMC) and Directive 2011/65/EU (RoHS)

The Manufacturer :

JDO Concept

12 rue de la Part Dieu
69003 LYON – France

declares under its responsibility that the following product :

- **Trade name** : PowerALERT®
- **Model** : A or B
- **Product Type** : Dual voltage detection device with audible alert
- **Description** : The product compares two voltage sources: one from an external transformer (230V~/12Vdc), the other from a vehicle's battery connected after the ignition is switched on. If both voltages are present simultaneously, the product emits an audible signal to warn the user. Designed for recreational vehicles (motorhomes, campervans, vans), it alerts the driver when the mains power connection is still present when starting the vehicle.

complies with the requirements of the following European directives:

- **2014/30/UE** : Electromagnetic compatibility (EMC) and section 3.2.9 UNECE R10
- **2011/65/UE** : Restriction of Hazardous Substances (RoHS)

and that the conformity assessment was carried out in accordance with the following harmonised standards :

- **IEC 62368-1** : Audio/video, information and communication technology equipment – Safety requirements

Certified laboratory that contributed to the conformity assessment :

LCIE Groupe VERITAS

Done at : Lyon

Date : 30/05/2025

Jacky DEMOTS

President – JDO Concept

Explanation of the symbols used on the device :

RoHS European regulation aimed at limiting the use of six hazardous substances in the manufacture of electrical and electronic equipment.



User guide to be read before any intervention or installation.



End-of-life electrical and electronic products must be taken to designated collection points (recycling centers). This process ensures their treatment in accordance with current environmental standards, promoting a circular economy.



Regulatory marking that imposes certain technical standards on products and gives them the right to free movement within the territory of the EU (European Union).



Recyclable materials.