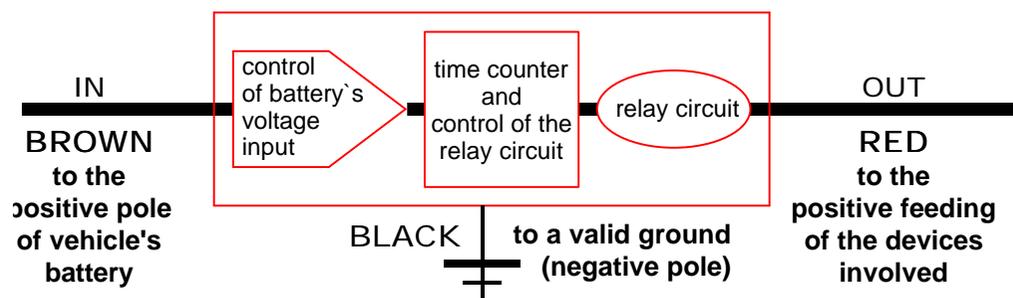


BatteryGuard



BatteryGuard (12V or 24V model) is electrically connecting the vehicle's battery to accessories (HiFi, TV, cool-, heat-, charge-devices or...) - in order to monitor their power drain, and to switch off these accessories, if need be.

BatteryGuard is a powerful monitoring switch. Accessories with a steady load up to 45 Ampere can be connected to **BatteryGuard**, even with 60 A switching current (or 100 A inrush current).



BatteryGuard does not require any handling by the driver or user.

BatteryGuard switches off the accessories only, if the battery's voltage drops below the critical threshold of **11,85V (12V-model)** or **23,4V (24V-model)** for about one minute.

Thus, when a powerful device like aux. heater starts running, it will not be switched off at soon. But the car battery is protected, in order to keep it able to start the engine

- As long as the light of the green LED is OFF, the power feeding of the monitored accessories is disconnected by **BatteryGuard**.

NOTE: If the input voltage rises above the threshold voltage within that minute, the timer is reset in order to start counting the minute anew at next voltage drop below threshold level.

BatteryGuard reconnects the devices, if the battery voltage comes up (due to alternator) to charge level: **12,6V (12V-model)** or **25,2V (24V)**

- As long as the light of the green LED is ON, **BatteryGuard** keeps connected the feeding of these accessories.

Manufacture's liability will not cover any defect or any malfunction of the device, of the accessories or of the vehicle's electrics due to incorrect installation or exceeding of the technical data.

INSTALLATION

Let **BatteryGuard** be installed by an expert. Verify electrical voltages by digital tester (voltmeter) only. Before starting to install disconnect car battery's negative pole, if possible. (NOTE that transitory memories hence may require a new adaptation: clock, radio, heater...) Electrical connections must be soldered or pinched tightly (to resist mechanical vibrations) and insulated. Security directions and injunctions prescribed by car's producer and handicraft must be observed..

ELECTRICAL CONNECTIONS:

- Select the proper **BatteryGuard** (12V-model or 24V-model).
- Switch off all devices, which you want to connect to the **BatteryGuard** - their total maximum steady current drain may not exceed 45 A.
- Disconnect the feeding cables of these devices from battery plus.
- Connect the **BROWN** wire of **BatteryGuard** to battery's positive post.
- Connect thoroughly the **RED** wire of **BatteryGuard** to the alimentation cables (positive) of all accessories to be controlled by **BatteryGuard**.
- Connect the **BLACK** wire of **BatteryGuard** to valid ground (battery's negative post), and protect it against oxidation.

FITTING POSITION: Tightly fasten **BatteryGuard** in a dry place near to the electrical connections, by the 2 ties supplied or by screws

TECHNICAL DATA:

voltage input
current carrying capacity steady switching current (inrush current)
current drain (green LED is on) disconnection function (LED is off)
timer lapse (delay)
switch-off threshold (critical thr.)
switch-on-threshold (charge level)
operation temperatures

12V-model	24V-model
9 - 18 Volt	21 - 32 Volt
45 A	45 A
60A (to 100A)	60A (to 100A)
135 mA	135 mA
3,5 mA	3,5 mA
55 - 60 sec.	55 - 60 sec.
11,85 Volt	23,4 Volt
12,6 Volt	25,2 Volt
- 40°C...+85°C	- 40°C...+85°C