



Qoltec Voltage balancer for 24V batteries 2 x 12V | 5A | AGM GEL LiFePO4 | LCD

Product code: 51099

A battery balancer designed to equalise the voltage between batteries connected in series in 24V systems. The device monitors the voltage levels of both batteries and, should a difference occur, automatically initiates the equalisation process, transferring energy from the battery with the higher voltage to the battery with the lower voltage.

SMART PROTECTION FOR YOUR 24V INSTALLATION - STABILITY YOU CAN RELY ON



A reliable, compact device designed to ensure the long and trouble-free operation of 12V battery packs

It automatically equalises differences in battery voltage, protects against damage and extends battery life, ensuring stable and safe operation of 24V systems – all within a compact, fire-resistant housing. **It does not require connection to the 230V mains supply; it operates fully autonomously, drawing power from the connected batteries**. The ideal solution for demanding and long-term applications – from photovoltaics to electric vehicles.

BALANCE TENSION, GAIN EFFICIENCY



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enhanced

Key functions and technical specifications

- **Automatic voltage equalisation** between 12V batteries in 24V systems
- Maximum equalisation current: 5A
- **Built-in reverse polarity protection**
- Supports: 2 x 12V batteries – both lead-acid (AGM, GEL, Deep cycle) and LifePo4
- **Display showing the device's operating status**
- Recommended battery capacity: 1Ah – 1000Ah
- **Powered directly from batteries** – no connection to the 230V AC mains required
- High-precision integrated circuits minimise component variations

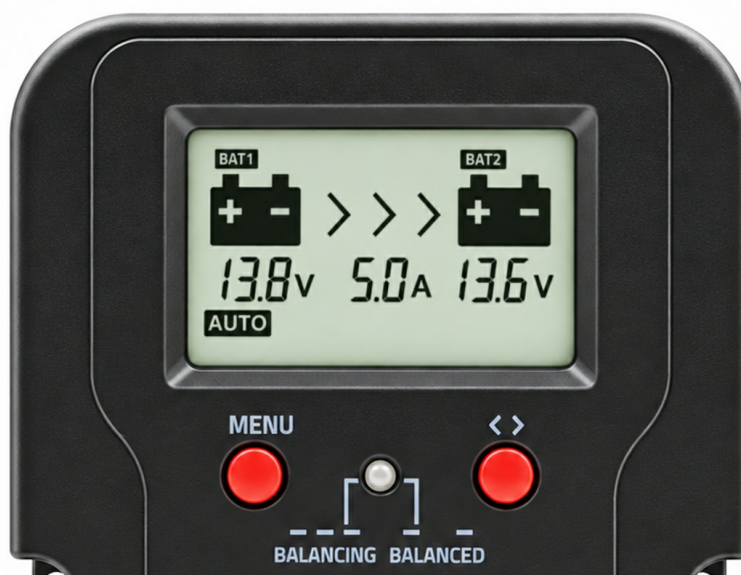
QUICK AND SECURE INSTALLATION



How to connect a voltage balancer

Before connecting the voltage balancer, **ensure that both batteries are fully charged, are of the same type and have the same capacity** . The voltage difference between them should not exceed 0.2V. It is also extremely important that the batteries are correctly connected in series, and that the total voltage of the system is approximately 24V. Connecting the balancer is simple – **simply connect the black lead to the negative terminal, the red lead to the positive terminal of the entire 24V system, and the additional lead to the point between the batteries** – the balancer will take care of the rest.

FULL CONTROL OVER THE BATTERY'S CONDITION



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Easy-to-read LCD display

The LCD display shows key information regarding the device's operation, such as battery voltage, the current status of the balancing process and the balancing current. From the home screen, the user can manually start the balancing process and select the appropriate balancing mode tailored to the specific application and battery system configuration.

- **Automatic balancing mode** – the device initiates balancing only when the battery pack is fully charged or when the voltage is low
- **Forced balancing mode** – intended for battery packs with significant voltage imbalance
- **Stop balancing** – stops the balancing process
- **Manual balancing mode** – designed for testing the balancer or for temporarily equalising battery voltages

WORKS WITH ANY 24V SYSTEM - UNIVERSAL APPLICATION, WIDE COMPATIBILITY



For motorhomes, yachts and solar power systems – Compatible with AGM, GEL, LiFePO4 and deep-cycle batteries

The 24V voltage balancer is the perfect choice wherever you use two 12V batteries connected in series. **It is ideal for motorhomes, caravans, boats, solar systems, electric vehicles, forklift trucks and emergency power supply systems** . It works seamlessly **with lead-acid batteries (AGM, GEL, deep-cycle)**, as well as lithium batteries such as LiFePO4 . This small device can significantly extend the service life of the entire battery system and prevent costly breakdowns.

CONFIDENCE CONFIRMED BY A WARRANTY

Product comes with a 24-month warranty

Do you care about the high quality of the product you buy? Our solutions will meet your expectations. The balancers we offer are covered by purchase. Take care of the condition of your batteries and enjoy the assurance that they are always in top condition !

24 month warranty Valid from the day of

TECHNICAL DATA

Producer	Qoltec
Input voltage	8–36V
Battery voltage	2 x 12V
Maximum input current	5A (from one of the batteries)
Operating current	0 – 5A DC
Battery capacity	Recommended battery capacity: 1Ah–1000Ah Maximum battery capacity: 2000Ah
Load Adjustment	Automatic
Display	Yes
Protection	Protection against reverse polarity
Functions	Voltage equalization between series-connected 12V batteries in a 24V installation
Usage	12V lead-acid (AGM, GEL, Deep cycle) and LiFePo4
Additional information	Voltage difference triggering balancing: 100 mV Balancing stop voltage: 20V Balancing start voltage: In STP 01 mode, the balancing start threshold can be set to 27 V or 23 V, depending on the system configuration.
OTHER PARAMETERS	
Colour	Black
Material	ABS
Operating temperature	-20°C ~ +50°C
Dimensions (D/L x W x H)	99 x 75 x 32 mm
Package	Box
Package contents	1 x Battery balancer 1 x User manual 1 x Warranty card
Package depth / length [mm]	110
Package width [mm]	85
Package height [mm]	45
Net weight [kg]	0.120
Gross weight [kg]	0.140
Certificate	CE
Warranty	24 month
EAN code	5901878510996