

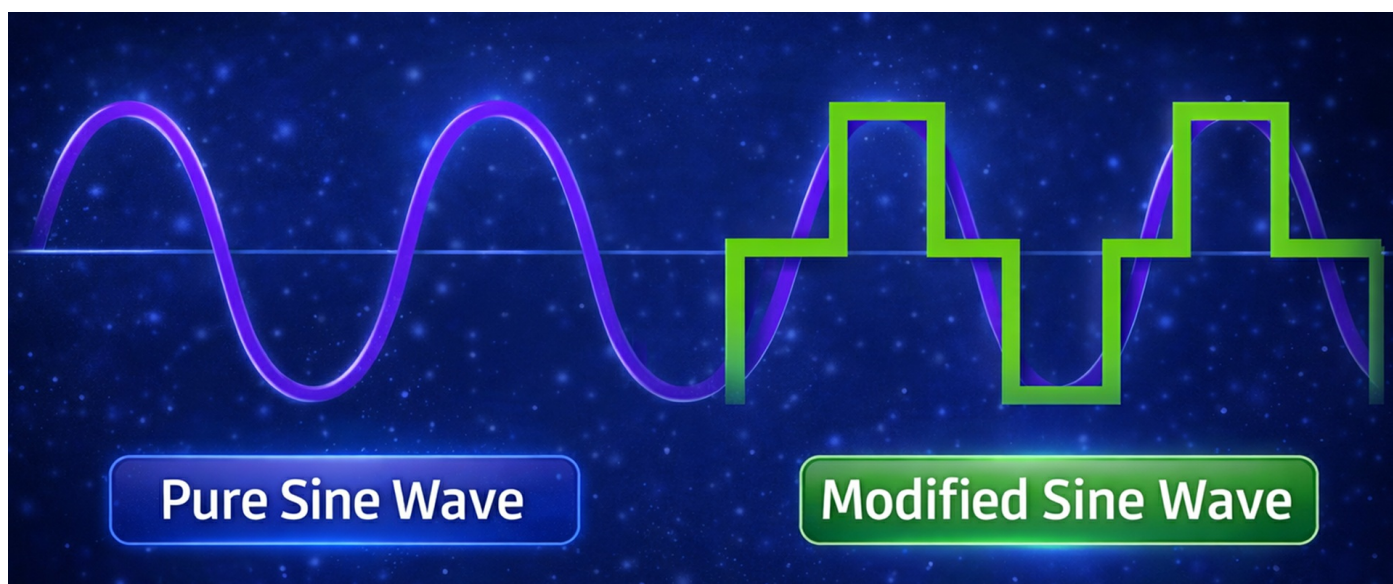


## Qoltec MS Wave Voltage Converter | 12V to 230V | 500/1000W | USB | Compatible with LiFePO4, GEL and AGM batteries

Product code: 52681

A voltage converter is a practical solution that allows you to convert 12V DC to 230V AC. This allows you to power electrical devices wherever there is no access to the mains – in a car, camper van, at your allotment or whilst working on the move. The device generates a modified sine wave (MS Wave), which ensures stable operation of many popular electronic devices.

### MODIFIED SINE WAVE – SIMPLE DESIGN, LOWER FAILURE RATE



The ideal choice for everyday use

Devices that do not require a pure sine wave, such as LED power supplies, LED lighting, computers, laptops and small household appliances, will operate without any problems with a modified sine wave inverter, which produces an output sine wave with an approximate AC voltage waveform, the RMS value of which is the same as that of a sine wave found in the mains supply. This type of inverter is characterised primarily by lower failure rates and a simple design.

## COMPATIBILITY WITH MODERN AND TRADITIONAL BATTERIES



Compatibility with AGM, GEL and LiFePO4 batteries

The voltage converter has been designed to work with common types of 12V batteries, making it suitable for a wide range of power supply systems – from automotive installations to off-grid systems.

Match the battery to the inverter's power rating To ensure correct operation, the battery should supply a voltage within the range of approx. 10.5V – 15.5V DC and sufficient current to power the connected devices.

- the higher the inverter power, the greater the current demand
- the recommended minimum battery capacity ensures stable operation
- higher capacity = longer operating time for devices

## ENSURE YOUR DEVICES HAVE THE RIGHT OPERATING CONDITIONS



Choose the right power rating, match the voltage, allow for a safety margin

When selecting the right power converter, it is worth paying attention to **the power rating and voltage of the battery, which must match those specified on the converter** to ensure our equipment operates under the right conditions. The **number of connected devices** is also important; for example, when connecting a laptop and a printer, the power of both devices must be **added together**. Remember that the power consumption of the connected device should not exceed **85% of the converter's rated power**.

Why is this so important?

- prevents overloads
- extends the device's lifespan
- ensures a stable voltage for the connected equipment
- minimises the risk of shutdowns and performance drops



## DON'T WASTE YOUR ENERGY WHILST TRAVELLING



Freedom wherever you are

This product is ideal as a power source for **motorhomes or caravans on family trips**. Are you planning a longer holiday at a campsite or by a lake, and looking for a way to plug in your laptop or charge your phone on a yacht? Thanks to the Qoltec inverter, you'll be able to **power your devices anywhere and enjoy convenience and comfort**. The voltage converter **will be the ideal power source for yacht and boat owners**. This smart device will allow you to power your equipment during long trips away from home; **it features a USB port, a USB-C port and mains sockets** to which you can connect electrical devices. You can easily charge your phone, laptop or connect any other device whose power consumption does not exceed the converter's capacity.

Depending on the power consumption of the device, the power supply can power: **Audio-visual equipment:** TVs, games consoles, music systems, radios, smartphones, routers **Office equipment:** computers, printers, laptops.

Emergency power supply at home

The inverter can also be used not only when travelling, but also **as an emergency power source, for example to maintain power to audio-visual equipment as a UPS during a temporary power cut**. This device gives you energy independence and the ability to use electronic devices in all conditions – both whilst travelling and in emergency situations.

## POWER ENCLOSED IN A STURDY METAL CASING



Robust metal casing – Durability you can rely on

The casing is made of high-quality metal, ensuring increased resistance to shocks and mechanical damage. It is a robust design that is ideal for demanding conditions – both when travelling and in everyday use.

- durable metal construction
- resistance to damage and vibrations
- ideal for mobile applications

Thanks to the built-in 230V Schuko mains socket, you can easily connect devices compatible with European plugs . Automatic fan – actively cools the device, preventing overheating and ensuring stable operation.



## FULL GUARANTEE FOR SAFE USE



Use of advanced safety features

The product is equipped with a range of safety features that guarantee full protection for connected devices. In addition, the set includes spare fuses to ensure the equipment remains operational for as long as possible.

The power supply features: **UVP protection** – protects devices from excessively low output voltage, which affects the stability of connected devices, **SCP protection** – short-circuit protection, **OVP protection** – protection against excessively high output voltage and damage to connected devices, **OCP protection** – protection against excessive current on the line, **OTP protection** – protection against overheating.



## CONFIDENCE CONFIRMED BY A WARRANTY



This product comes with a 24-month warranty

Are you looking for a high-quality product? Our solutions will meet your expectations. This product comes with a **24-month warranty valid from the date of purchase.**

## TECHNICAL DATA

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Producer                            | Qoltec                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rated Power                         | 500W                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Peak power                          | 1000W                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Input Voltage Range (PV)            | 10.5V to 15.5V DC                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Input voltage                       | 12V                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Output voltage                      | 230V                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Waveform                            | MS wave                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Efficiency                          | 80%                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cooling system                      | 1 x Fan                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| USB                                 | 5V/2.1A                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Connector                           | Battery connection cables, 6mm (1 red / 1 black), 0.70m                                                                                                                                                                                                                                                                                                                                                                                              |
| Plug / socket                       | 1 x Schuko                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Protection                          | UVP/OVP/OCP/OTP/SCP<br>Grounding                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protection against inverse polarity | Fuse                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Usage                               | Kitchen equipment: fridge, microwave, blender, coffee machine, kettle, freezer, oven<br>Office equipment: laptop, computer, printer<br>Other: power tools, hoover, hair dryer, fan, TV, games console, radio, music equipment, solar panels, boat charging, air conditioning, CO cooker                                                                                                                                                              |
| Additional information              | Do not cover the ventilation holes on the device<br>Remember to connect the wires and ensure the correct polarity of the power supply voltage!<br>Batteries must supply a voltage within the range of 10.5V to 15.5V DC (for 12V converters) and be capable of providing the current required to power the connected load. To estimate the approximate current (in amperes) that the battery must supply, simply divide the power of the load by 10. |
| Notices                             | Do not block the device's ventilation openings<br>Ensure that the cables are connected correctly and that the supply voltage is correctly polarised!<br>The power consumption must not exceed the inverter's maximum power rating                                                                                                                                                                                                                    |
| OTHER PARAMETERS                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Colour                              | Grey, black                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Material                            | Metal, ABS                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Operating temperature               | -10°C ~ +50°C                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Storage temperature                 | -30°C ~ +70°C                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions (D/L x W x H)            | 100 x 175 x 60 mm                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Package contents                    | 1 x Voltage converter<br>2 x Battery connection cables<br>1 x Warranty card<br>1 x User manual                                                                                                                                                                                                                                                                                                                                                       |
| Package depth / length [mm]         | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Package width [mm]                  | 220                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Package height [mm]                 | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Net weight [kg]                     | 0.868                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gross weight [kg]                   | 1.022                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Certificate                         | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Warranty                            | 24 month                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| EAN code                            | 5901878526812                                                                                                                                                                                                                                                                                                                                                                                                                                        |