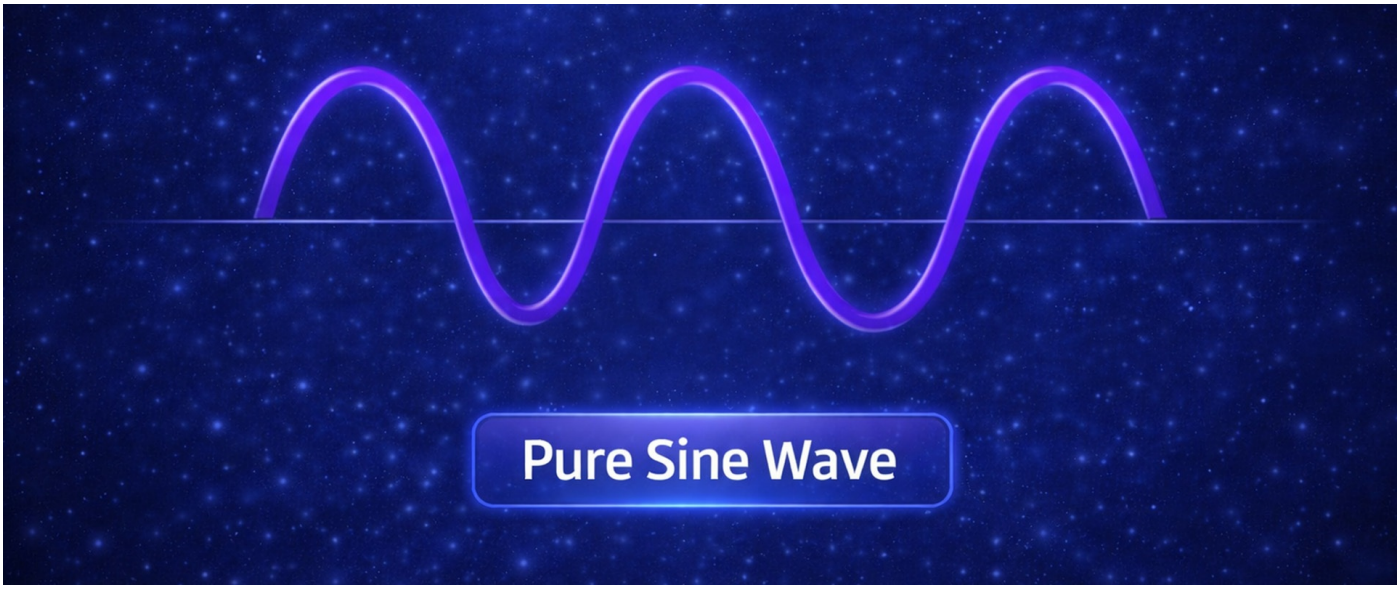
Qoltec Pure Sine Wave Inverter | 12V to 230V | 2000/4000W | UPS BYPASS | LCD | USB | USB-C | Compatible with LiFePO4 GEL AGM

Product code: 52697

The Pure Sine Wave inverter generates a voltage identical to that of the mains supply, ensuring full compatibility even with the most demanding devices. By combining the functions of an inverter and a bypass mode, the device ensures operational continuity, convenience and full control over the power supply – in both mobile and stationary installations. It is equipped with a modern, backlit LCD display, which provides quick and convenient access to the device's key operating parameters.

PURE SINE WAVE – POWER QUALITY JUST LIKE FROM THE SOCKET



Power all your devices without restrictions
The pure sine wave inverter **generates a voltage identical to that of the mains supply**, thereby **ensuring full compatibility even with the most demanding devices** . Thanks to advanced power conversion technology, Pure Sine Wave inverters are recommended wherever safety, stability and full hardware compatibility are essential.
- ideal for devices sensitive to power quality,
- safe for electronic equipment and motors,
- stable and quiet operation of devices,
- no interference or risk of damage,
- safe operation even under prolonged load.
Uninterrupted operation – UPS (BYPASS) mode
The inverter is equipped with a bypass (UPS) function, which is responsible for intelligent power source management:
- the bypass (UPS) function, i.e. automatic switching of the power source between the 230V mains and the 12V battery – without the need for user intervention
- when 230V mains voltage is available – the device switches to bypass mode
- in the event of a power failure – the system automatically switches to the 12V battery
- once power is restored, the inverter returns to bypass mode and resumes supplying power to the devices from the mains.

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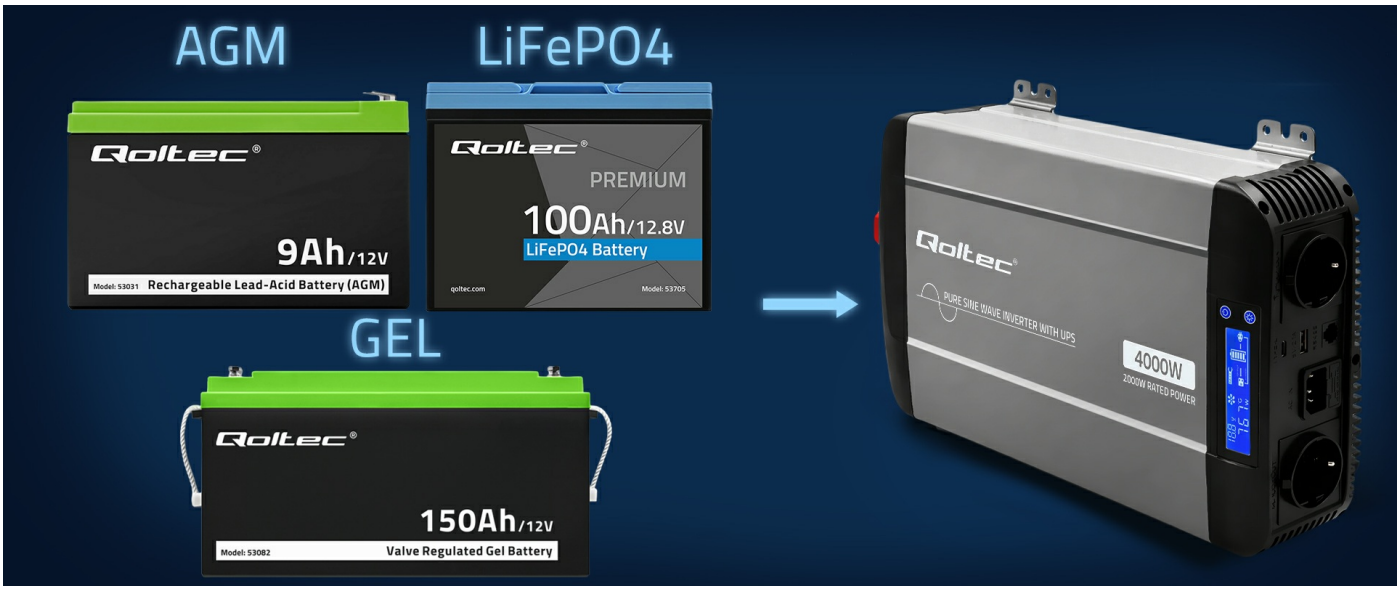
COMPATIBILITY WITH MODERN AND TRADITIONAL BATTERIES



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

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FULL CONTROL OVER THE OPERATION OF THE DEVICE

Modern, backlit LCD displayThe inverter is equipped with a modern, backlit LCD display, which provides quick and convenient access to the device's key operating parameters.
- battery voltage (Battery Voltage),
- current power consumption (Power Consumption),
- device operating temperature,
- inverter operating status (AC Output),
- battery charge level,
- fan operation indicator and any faults (FAULT)

Thanks to clear icons and an intuitive interface, users can monitor the device's status in real time, which enhances safety and user comfort – both when travelling and when working in the office.

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

Sturdy 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	2000W
Peak power	4000W
Input voltage	12V
Output voltage	230V
Waveform	Pure sine wave
Wave From Distortion	THD < 4%
Output frequency	50HZ
Efficiency	90%
Cooling system	2 x Fan
USB	5V/2.1A
Connector	Battery cable with eyelet, 1 red / 1 black, 0.70 m, 200A Power cable, 0.90 m
Plug / socket	2 x Schuko 1 x RS485 1 x USB 1 x USB-C
Protection	UVP/OVP/OCP/OTP/SCP Grounding
Protection against inverse polarity	Fuse
Usage	Kitchen equipment: fridge, microwave, blender, coffee machine, kettle, freezer, oven Office equipment: laptop, computer, printer Other: power tools, hoover, hair dryer, fan, TV, games console, radio, music equipment, solar panels, boat charging, air conditioning, CO cooker
Additional information	The converter must be connected to a battery. Remember to connect the wires and ensure the correct polarity of the power supply voltage! 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 Ensure that the cables are connected correctly and that the supply voltage is correctly polarised ! The power consumption must not exceed the inverter's maximum power rating The charger is not charging the battery.
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)	250 x 380 x 70 mm
Package contents	1 x Voltage converter 2 x Battery connection cables 1 x Power cable 1 x Warranty card 1 x User manual
Package depth / length [mm]	290
Package width [mm]	490
Package height [mm]	165
Net weight [kg]	5.583
Gross weight [kg]	6.799
Certificate	CE
Warranty	24 month
EAN code	5901878526973