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Victron Energy QUA125021100

Victron Energy Quattro 12V 5000VA Inverter/Charger Instruction Manual

Model: QUA125021100

PRODUCT OVERVIEW

The Victron Energy Quattro 12-Volt 5000VA 220 amp is a combined 120V inverter and battery charger, designed for robust power management. It offers the unique capability to connect to two independent AC sources, ensuring reliable power supply. This unit is engineered for seamless operation, providing uninterrupted power even during grid failures, and features advanced power assist technology to prevent overload of limited AC sources.

Key features include:

- Combined 120V inverter and battery charger with dual AC input capability.
- Instantaneous transfer to battery power during grid failure, ensuring continuous operation of sensitive electronics.
- Power Assist feature to prevent overload of limited AC sources like generators or shore power.
- Scalable design, allowing up to 6 Quattro units to operate in parallel for increased power, three-phase, or split-phase configurations.
- Remote monitoring and control via Victron Energy GX devices (sold separately) and the internet.



Multifunctional

Quattro is a combined inverter and charger. Additionally it can accept two AC inputs and automatically connect to the active source. Its many features include a true sine wave inverter, adaptive charging, hybrid PowerAssist technology plus multiple system integration features such as three or split phase operation and parallel operation.



Image: Victron Energy Quattro in one view, highlighting Energy Storage Systems, Unique PowerAssist, Multifunctional, and Soft Start features.

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your Victron Energy Quattro. Ensure all connections are secure and follow local electrical codes.

Physical Dimensions and Mounting

The Quattro unit has a compact design for versatile installation. Refer to the dimensions below for planning your mounting location.

DIMENSIONS

Compact size

Weight: 34KG / 75LBS



Robust
technology



Global
network



45 years of
know-how



Image: Diagram showing the dimensions of the Victron Energy Quattro: 350 mm (14 inches) width, 470 mm (18.5 inches) height, and 280 mm (11.2 inches) depth.

Wiring Connections

Connect your battery bank, AC input sources, and AC loads according to the wiring diagram provided in the full manual. Ensure appropriate cable gauges are used for all connections.



VictronConnect Monitor, operate & configure.

When coupled with a GX device you can monitor and control your Quattro straight from our free VictronConnect app or the Victron Remote Monitoring platform. Easily adjust the AC input current limit to prevent shore power overload, or any setting to prevent issues from happening and maximise your system's performance.

 Download the app.

Available for most devices. VictronConnect can connect to Victron products via Bluetooth, USB and WiFi/LAN/Internet.

Image: Diagram illustrating the two independent AC inputs and two AC outputs of the Victron Energy Quattro, showing how it connects to shore power, generator, and various loads.

System Integration

The Quattro is a key component in a Victron Energy Storage System (ESS), offering flexibility to integrate with MPPT Solar Chargers or Grid-tie PV Inverters. For larger power requirements, up to six Quattro units can be paralleled.

ESS

Energy Storage Systems

The Quattro is the key component in a Victron ESS system, providing the flexibility to combine with MPPT Solar Chargers or Grid-tie PV Inverters.



BATTERY LIFE

What is ESS?

An Energy Storage System (ESS) is a specific type of power system that integrates a power grid connection with a Victron Inverter/Charger, GX device and battery system. It stores solar energy into your battery during the day, for use later on when the sun stops shining.

It allows for time shifting power, charging from solar, providing grid support, and exporting power back to the grid.



Image: Diagram showing the Victron Energy Quattro as part of an Energy Storage System (ESS), connected with MPPT Solar Chargers and Grid-tie PV Inverters.

Image: Multiple Victron Energy Quattro units connected in parallel, illustrating system scalability.

Installation Overview Video

Video: An introduction to the Victron Energy MultiPlus-II, demonstrating its features and installation process. While the video features a MultiPlus-II, the installation principles for the Quattro are similar, including mounting, wiring, and panel access.

OPERATING INSTRUCTIONS

The Victron Energy Quattro is designed for intuitive operation, with both local controls and advanced remote management options.

Local Controls

The unit features an on/off/charger-only switch for basic control. Status LEDs indicate inverter operation, charger status, and potential warnings like overload or low battery.

Remote Monitoring and Configuration

For comprehensive monitoring and configuration, connect your Quattro to a Victron Energy GX device (e.g., Cerbo GX, Venus GX) and use the VictronConnect app or the Victron Remote Monitoring (VRM) platform. This allows you to adjust settings, monitor performance, and receive alerts from anywhere in the world.



Image: Screenshot of the VictronConnect app interface showing Quattro overview, detailed status, AC input, AC output, battery voltage, and charge state.

Firmware Update via Android Phone

You can update the firmware of your Quattro using an Android phone with an OTG adapter, an MK3 interface, and an Ethernet cable. This process allows for keeping your device up-to-date with the latest features and improvements.

Video: Demonstrates how to update the firmware of a Victron MultiPlus (similar process for Quattro) using an Android phone, an OTG adapter, an MK3 interface, and an Ethernet cable.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Victron Energy Quattro. Keep the unit clean and ensure proper ventilation to prevent overheating. Periodically check all wiring connections for tightness and signs of wear or corrosion.

For battery management, consider integrating Victron Energy battery monitors or smart battery protect devices to optimize battery health and extend lifespan.



Image: Victron Energy battery management devices for optimal battery health.

TROUBLESHOOTING

If you encounter issues with your Quattro, consult the LED indicators on the unit for initial diagnostics. Common issues and their potential solutions include:

- **No Power Output:** Check AC input connections, battery connections, and the unit's on/off switch. Verify battery voltage is within operating limits.
- **Overload Indication:** Reduce the connected load. The Power Assist feature should prevent this, but extreme loads may still trigger it.
- **Low Battery Warning:** Ensure adequate charging sources (solar, generator, shore power) are connected and functioning. Check battery health.
- **Temperature Warning:** Ensure the unit has sufficient ventilation and is not obstructed. Reduce load if operating in high ambient temperatures.

For more detailed troubleshooting, refer to the comprehensive manual available on the Victron Energy website or through the VictronConnect app.

SPECIFICATIONS

Feature	Detail
Product Dimensions	21.3 x 18.5 x 15 inches
Item Weight	70.3 pounds
Item Model Number	QUA125021100
Brand	Victron Energy
Recommended Uses	Recreational Vehicle, Boat, Household appliances, Workshop, Treadmills, Centrifugers
Power Source	Battery Powered
Wattage	5000 watts
Battery Capacity	220 Amp Hours

WARRANTY AND SUPPORT

Victron Energy products are known for their quality and reliability. For specific warranty details, please refer to the documentation included with your product or visit the official Victron Energy website. Protection plans are also available for extended coverage.

For customer support, technical assistance, or service inquiries, please contact Victron Energy's authorized dealers or support channels. Online resources, including manuals and FAQs, are available on the Victron Energy website.

- 3-Year Protection Plan available.
- Customer Support available.

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