# Quattro Inverter/Charger 277V

15 kVA

www.victronenergy.com

**Quattro**
**48/15000/200-100/100**

**Ekrano GX or Cerbo GX**
Provides intuitive system control and monitoring and enables access to our free remote monitoring website: the VRM Online Portal.

**VRM Portal**
Our free remote monitoring website (VRM) will display all your system data in a comprehensive graphical format. System settings can be changed remotely via the portal. Alarms can be received by e-mail or push notification.

**VRM app**
Monitor and manage your Victron Energy system from your smart phone and tablet. Available for both iOS and Android.

### Two AC inputs with integrated transfer switch
The Quattro can be connected to two independent AC sources, for example the public grid and a generator, or two generators. The Quattro will automatically connect to the active source.

### Two AC Outputs
The main output has no-break functionality. The Quattro takes over the supply to the connected loads in the event of a grid failure or when shore/generator power is disconnected. This happens so fast (less than 20 milliseconds) that computers and other electronic equipment will continue to operate without disruption.
The second output is live only when AC is available on one of the inputs of the Quattro. Loads that should not discharge the battery, like a water heater for example, can be connected to this output.

### Three phase capability
Three units can be configured for three phase output and up to 4 sets of three 15 kVA units can be parallel connected to provide 144 kW / 180 kVA inverter power and 2400 A charging capacity.

### PowerControl – Dealing with limited generator, shore side or grid power
A current limit can be set on each AC input. The Quattro will then take account of other AC loads and use whatever is spare for charging, thus preventing the generator or mains supply from being overloaded.

### PowerAssist – Boosting shore or generator power
Where peak power is so often required only for a limited period, the Quattro will make sure that insufficient mains or generator power is immediately compensated for by power from the battery. When the load reduces, the spare power is used to recharge the battery.

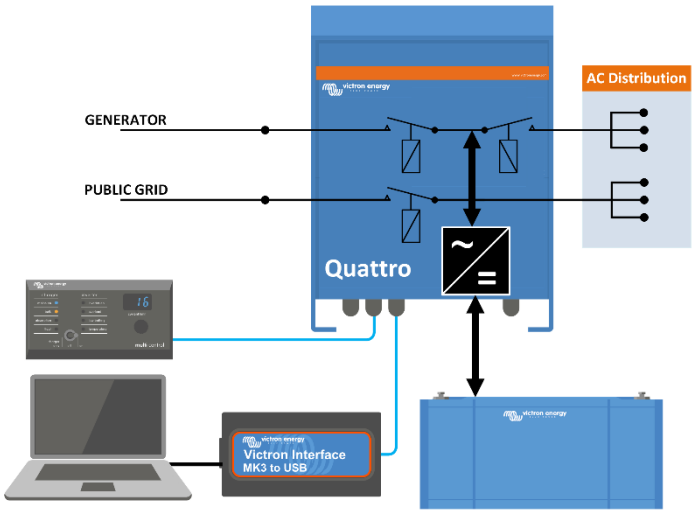
### Solar energy: AC power available even during a grid failure
The Quattro can be used in off grid as well as grid connected PV and other alternative energy systems.
Loss of mains detection software is available.

### System configuring
- In case of a stand-alone application, if settings must be changed, this can be done in a matter of minutes with a DIP switch setting procedure.
- Parallel and three phase applications can be configured with VE.Bus Quick Configure and VE.Bus System Configurator software.
- Off grid, grid interactive and self-consumption applications, involving grid-tie inverters and/or MPPT Solar Chargers can be configured with Assistants (dedicated software for specific applications).

### On-site Monitoring and control
Several options are available: Battery Monitor, Multi Control Panel, Cerbo GX or other GX devices, smartphone or tablet (Bluetooth Smart), laptop or computer (USB or RS232).

### Remote Monitoring and control
Cerbo GX, Ekrano GX or other GX devices.
Data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge.

### Remote configuring
When connected to the Ethernet, systems with a GlobalLink, Cerbo GX or other GX device can be accessed, and settings can be changed remotely.



# Quattro 48/15000/200-100/100 277V

| | |
|---|---|
| PowerControl / PowerAssist | Yes |
| Integrated Transfer switch | Yes |
| AC inputs (2x) | Input voltage range: 240-295 VAC Input frequency: 45 – 65 Hz Power factor: 1 |
| Maximum feed through current | 2x 100 A |
| **INVERTER** | |
| Input voltage range | 38 – 66 V |
| Output [1] | Output voltage: 277 VAC ± 2 % Frequency: 60 Hz ± 0,1 % |
| Cont. output power at 25 °C [3] | 15000 VA |
| Cont. output power at 25 °C | 12000 W |
| Cont. output power at 40 °C | 10000 W |
| Cont. output power at 65 °C | 7000 W |
| Peak power | 25000 W |
| Maximum efficiency | 96 % |
| Zero load power | 110 W |
| Zero load power in AES mode | 75 W |
| Zero load power in Search mode | 20 W |
| **CHARGER** | |
| Charge voltage 'absorption' (VDC) | 57,6 V |
| Charge voltage 'float' (VDC) | 55,2 V |
| Storage mode (VDC) | 52,8 V |
| Charge current house battery (A) [4] | 200 A |
| Battery temperature sensor | Yes |
| **GENERAL** | |
| Auxiliary output [5] | 50 A |
| Programmable relay [6] | 3x |
| Protection [2] | a-g |
| VE.Bus communication port | For parallel and three phase operation, remote monitoring, and system integration |
| General purpose com. port | 2x |
| Remote on-off | Yes |
| Common Characteristics | Operating temp.: -40 to +65 °C Humidity (non-condensing): max. 95 % |
| **ENCLOSURE** | |
| Enclosure | Material & Colour: aluminium (blue RAL 5012) Protection category: IP21 |
| Battery-connection | Four M8 bolts (2 plus and 2 minus connections) |
| 277 VAC-connection | Bolts M6 |
| Weight (kg) | 160 lb 72 kg |
| Dimensions (hxwxd) | 22.6 x 19,2 x 13,6 inch<br>572 x 488 x 344 mm |
| **STANDARDS** | |
| Safety | EN-IEC 60335-1, EN-IEC 60335-2-29, EN-IEC 62109-1 |
| Emission, Immunity | EN 55014-1, EN 55014-2, EN-IEC 61000-3-2, EN-IEC 61000-3-3, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3 |

1) Setting range: 230-280 V (below 275 V cont. output power derates linearly with output voltage).
2) Protection key:
a) output short circuit
b) overload
c) battery voltage too high
d) battery voltage too low
e) temperature too high
f) AC on inverter output
g) input voltage ripple too high

3) Non-linear load, crest factor 3:1
4) Up to 25 °C ambient
5) Switches off when no external AC source available
6) Programmable relay that can a.o. be set for general alarm, DC under voltage or genset start/stop function
AC rating: 230 V / 4 A
DC rating: 4 A up to 35 VDC, 1 A up to 60 VDC

**Digital Multi Control Panel**
A convenient and low-cost solution for monitoring and control. With an on/off charger-only switch, full LED readout and a rotary knob to set PowerControl and PowerAssist levels.

**VE.Bus Smart Dongle**
For monitoring and control via Bluetooth together with the VictronConnect app. It also measures battery voltage and temperature.

**Interface MK3-USB**
Needed to configure the MultiPlus, Can be used with the VictronConnect app or VE.Configure software. The interface connects to the MultiPlus via an RJ45 UTP cable and plugs into a USB port.

**VictronConnect app**
Use to monitor or configure the MultiPlus using your phone tablet or PC.

**Battery Monitor**
To monitor battery state of charge via Bluetooth or the VRM portal.
The BMV 712 Smart has display, while the SmartShunt does not have a display. Both communicate via Bluetooth and have a VE.Direct communication port.

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