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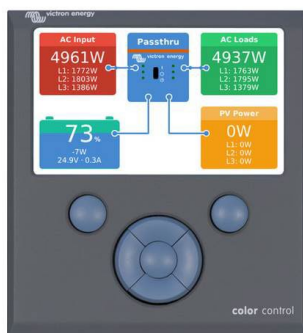
Remote Monitoring and control
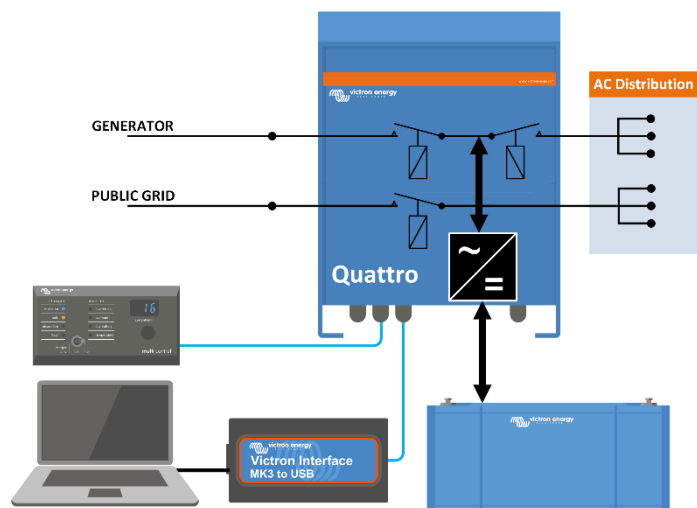Cerbo GX, Color Control GX or other GX devices.
Data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge.

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**

**Color Control GX
showing a PV application**

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

PowerControl / PowerAssist	Yes
Integrated Transfer switch	Yes
AC inputs (2x)	Input voltage range: 230-290 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 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 remote monitoring, with a rotary knob to set PowerControl and PowerAssist levels.

Computer controlled operation and monitoring
Several interfaces are available:

Color Control GX and other GX devices
Monitoring and control. Locally, and also remotely on the VRM Portal.

BMV-712 Smart Battery Monitor
Use a smartphone or other Bluetooth enabled device to:
- customize settings,
- monitor all important data on single screen,
- view historical data, and to update the software when new features become available.

VE.Bus Smart Dongle
Measures battery voltage and temperature and allows monitoring and control of Multis and Quattros with a smartphone or other Bluetooth enabled device.

MK3-USB VE.Bus to USB interface
Connects to a USB port (see 'A guide to VEConfigure')

victron energy
BLUE POWER