

Quattro Inverter/Charger

3kVA - 15kVA Lithium Ion battery compatible

www.victronenergy.com



Quattro 48/5000/70-100/100



Quattro 48/15000/200-100/100

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.

Virtually unlimited power thanks to parallel operation

Up to 6 Quattro units can operate in parallel. Six units 48/10000/140, for example, will provide 48kW / 60kVA output power and 840 Amps charging capacity.

Three phase capability

Three units can be configured for three phase output. But that's not all: up to 6 sets of three units can be parallel connected to provide 144kW / 180kVA inverter power and more than 2500A charging capacity.

PowerControl – Dealing with limited generator, shore side or grid power

The Quattro is a very powerful battery charger. It will therefore draw a lot of current from the generator or shore side supply (16A per 5kVA Quattro at 230VAC). 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

This feature takes the principle of PowerControl to a further dimension allowing the Quattro to supplement the capacity of the alternative source. 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 have to 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, Ve.Net Blue Power panel, Color Control panel, smartphone or tablet (Bluetooth Smart), laptop or computer (USB or RS232).

Remote Monitoring and control

Victron Ethernet Remote, Venus GX and the Color Control Panel.

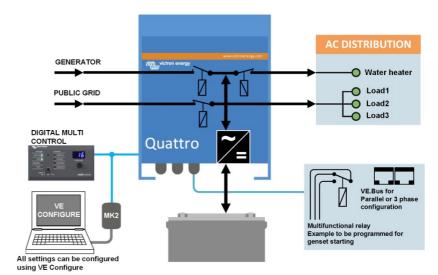
Data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge.

Remote configuring

When connected to the Ethernet, systems with a Color Control panel can be accessed and settings can be changed.



Color Control panel, showing a PV application



2x 50		Yes	100/100	100/100
2x 50				
2x 50		Yes		
2x 50		265 VAC Input frequency:	45 – 65 Hz Power factor:	1
	2x100	2x100	2x100	2x100
	INVERTER			
		.5 – 17V 19 – 33V 38 –		
			ncy: 50 Hz ± 0,1%	
				15000
				12000
				10000
				7000
				25000
				96
				80
				50
8/10		10 / 20	20	30
/				
, , , , , , , , , , , , , , , , , , , ,				57,6
				55,2
, , , , , , , , , , , , , , , , , , , ,			,	52,8
120 / 70	220 / 120 / 70			200
· · · · · · · · · · · · · · · · · · ·				
	CENTEDAL	Yes		
25		50		
				50
3X	3X		3X	3x
	F	•		
2				
ZX	ZX		ZX	2x
	Onarating tamp . 40		condensing), may 0E0/	
			condensing): max. 95%	
			rotaction category: IP 21	
			· · · · · · · · · · · · · · · · · · ·	
Screw terminals 13 mm ²				
(6 AWG)	Bolts M6	Bolts M6	Bolts M6	Bolts M6
19	34/30/30	45 / 41	51	72
362 x 258 x 218	470 x 350 x 280 444 x 328 x 240 444 x 328 x 240	470 x 350 x 280	470 x 350 x 280	572 x 488 x 344
EN 5501	4-1, EN 55014-2, EN-IEC 610		· ·	2, IEC 61000-6-3
			R10-4	
quest	4) At 25°C ambient 5) Switches off when I 6) Programmable rela DC under voltage o AC rating: 230 V / 4	no external AC source available y that can a.o. be set for general r genset start/stop function A	alarm,	
	19 362 x 258 x 218	2400	2400	2400



Digital Multi Control Panel

A convenient and low cost solution for remote monitoring, with a rotary knob to set PowerControl and PowerAssist levels.



Blue Power Panel

Connects to a Multi or Quattro and all VE.Net devices, in particular the VE.Net Battery Controller.
Graphical display of currents and voltages.

Computer controlled operation and monitoring

Several interfaces are available:



Color Control GX

Monitoring and control. Locally, and also remotely on the $\underline{\mbox{VRM Portal.}}$



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



VE.Bus to NMEA 2000 interface

Connects the device to a NMEA2000 marine electronics network. See the <u>NMEA2000 & MFD integration guide</u>



BMV-700 Battery Monitor

The BMV-700 Battery Monitor features an advanced microprocessor control system combined with high resolution measuring systems for battery voltage and charge/discharge current. Besides this, the software includes complex calculation algorithms, like Peukert's formula, to exactly determine the state of charge of the battery. The BMV-700 selectively displays battery voltage, current, consumed Ah or time to go.

