

Quattro Inverter/Charger

3kVA - 15kVA

Lithium lon 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 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.

Split phase option

A split phase AC source can be obtained by connecting our autotransformer (see data sheet on www.victronenergy.com) to a 'European' inverter programmed to supply 240 V / 60 Hz.

Three phase capability

Three units can be configured for three phase output. But that's not all: 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

The Quattro is a very powerful battery charger. It will therefore draw a lot of current from the generator or shore side supply (16 A per 5 kVA Quattro at 230 VAC). 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, Color Control GX or other GX devices, smartphone or tablet (Bluetooth Smart), laptop or computer (USB or RS232).

Remote Monitoring and control

Color Control GX or other GX devices.

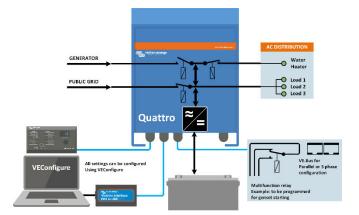
Data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge.

Remote configuring

When connected to the Ethernet, systems with a Color Control GX or other GX device can be accessed and settings can be changed remotely.



Color Control GX, showing a PV application



Quattro	12/3000/120-50/50 24/3000/70-50/50	12/5000/220-100/100 24/5000/120-100/100 48/5000/70-100/100	24/8000/200-100/100 48/8000/110-100/100	48/10000/140-100/100	48/15000/200-100/1
ominal Battery Voltage	12/3000: 12 V battery 24/3000: 24 V battery	12/5000: 12 V battery 24/5000: 24 V battery 48/5000: 48 V Batttery	24/8000: 24 V battery 48/8000: 48 V battery	48 V battery	
owerControl / PowerAssist			Yes		
tegrated Transfer switch			Yes		
C inputs (2x)	2 50		87-250 VAC Input frequency: 5		2,100
laximum feed through current (A) .w	2x 50 6 kA 30 mS	2x100	2x100 10 k/	2x100 \ 30 ms	2x100
		INVERTER		W.	
put voltage range (VDC) utput ⁽¹⁾	9,5 – 17 V 19 – 33 V 38 – 66 V Output voltage: 230 VAC ± 2 % Frequency: 50 Hz ± 0,1 %				
ont. output power at 25 °C (VA) (3)	3000	5000	8000	10000	15000
ont. output power at 25 °C (W)	2400	4000	6400	8000	12000
ont. output power at 40 °C (W)	2200	3700	5500	6500	10000
ont. output power at 65 °C (W)	1700	3000	3600	4500	7000
ak power (W)	6000	10000	16000	20000	25000
out current (A DC)	250 / 125	458/238/118	381/188	235	350
aximum continuous Output current (A~)	11	19	30	37	53/50
wer factor range	±0.8	±0.8	±0.8	±0.8	±0.8
ximum output fault current	32 A peak 1 sec.	53 A 1 sec.	100 A 1 sec	100 A 1 sec	150 A 1 sec
aximum efficiency (%)	93 / 94	94 / 94 / 95	94 / 96	96	96
ro load power (W)	20/20	30/30/35	60 / 60	60	110
ro load power in AES mode (W)	15/15	20/25/30	40 / 40	40	75
o load power in Search mode (W)	8 / 10	10 / 10 / 15 CHARGER	15/15	15	20
arge voltage 'absorption' (VDC)	14.4 / 28.8	14,4 / 28,8 / 57,6	28.8 / 57.6	57,6	57,6
narge voltage 'float' (VDC)	13,8 / 27,6	13,8 / 27,6 / 55,2	27,6 / 55,2	55,2	55,2
orage mode (VDC)	13,2 / 26,4	13,2 / 26,4 / 52,8	26,4 / 52,8	52,8	52,8
arge current house battery (A) (4)	120 / 70	220 / 120 / 70	200/110	140	200
arge current starter battery (A)			4 (12 V and 24 V models only)		
ttery temperature sensor			Yes		
uxiliary output (A) (5)	25	GENERAL 50	50	50	50
ogrammable relay ⁽⁶⁾	23 3x	3x	3x	30 3x	30 3x
otection ⁽²⁾	38	3%	a-g	38	2X
Bus communication port		For parallel and three ph	ase operation, remote monitorir	and system integration	
eneral purpose com. port	2x	2x	2x	2x	2x
emote on-off	EA.		Yes	24	24
ommon Characteristics	Operating temp.: -20 to +60 °C Humidity (non-condensing): max. 95 %				
aximum altitude			3500 m		
ommon Characteristics	N	ENCLOSURE Naterial & Colour: aluminium (blu	e RAL 5012) Protection catego	v: IP20, pollution degree 2, OVC	111
attery-connection	Material & Colour: aluminium (blue RAL 5012) Protection category: IP20, pollution degree 2, OVC III Four M8 bolts (2 plus and 2 minus connections)				
0 VAC-connection	Screw terminals 13 mm ² (6 AWG)	Bolts M6	Bolts M6	Bolts M6	Bolts M6
eight (kg)	19	34 / 30 / 30	45/41	51	72
		470 x 350 x 280			
mensions (hxwxd in mm)	362 x 258 x 218	444 x 328 x 240	470 x 350 x 280	470 x 350 x 280	572 x 488 x 344
		444 x 328 x 240 STANDARDS			
fety			C 60335-1, EN-IEC 60335-2-29, EN	I-IEC 62109-1	
nission, Immunity	EN 55014-1, EN 55014-2, EN-IEC 61000-3-2, EN-IEC 61000-3-3, IEC 61000-6-1, IEC 61000-6-3				
ad vehicles	12 V and 24 V models: ECE R10-4				
nti-islanding			See our website		
Can be adjusted to 60 HZ. 120 V models available on re-	quest	3) Non-linear load, crest fac	tor 3:1		
Protection key: a) output short circuit		 4) Up to 25 °C ambient 5) Switches off when no ex 	ternal AC source available		
b) overload			t can a.o. be set for general alarm,		
) battery voltage too high		DC under voltage or gen	set start/stop function		
d) battery voltage too low e) temperature too high		AC rating: 230 V / 4 A DC rating: 4 A up to 35 V			
) 230 VAC on inverter output		beruung. 4 Aup to 55 M	5c, 17 dp to 60 VBC		
ı) input voltage ripple too high					
D várna essay			• · · ·	-	-
cherger investor	Computer	controlled operation a	nd monitoring	window	
Tradicional de la constitución d	Several inter	faces are available:		victron	energy
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and at a multi contro	10 miles			(<u> </u>	
vigitai muiti Controi Panel		Color Control (GX and other GX		SELECT
convenient and low cost solution for re	emote	devices		õ	0 //
onitoring, with a rotary knob to set		Monitoring and c	ontrol. Locally, and also	0	1
<u> </u>		remotely on the \			unau partery
owerControl and PowerAssist levels.					man partery



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 <u>(see 'A guide to</u> VEConfigure')

VE.Bus to NMEA 2000 interface

Connects the device to a NMEA 2000 marine electronics network. See the NMEA2 000 & MFD integration guide



DIVIN-/ 12 JUNAIL DALLERY 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.

