

MultiPlus Inverter/Charger

800 VA – 5 kVA



MultiPlus 24/3000/70



MultiPlus Compact 12/2000/80

Two AC Outputs

Lithium Ion battery compatible

The main output has no break functionality. The MultiPlus 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 the input of the MultiPlus. Loads that should not discharge the battery, like a water heater for example can be connected to this output (second output available on models rated at 3 kVA and more).

Virtually unlimited power thanks to parallel operation

Up to 6 Multis can operate in parallel to achieve higher power output. Six 24/5000/120 units, for example, will provide 25 kW / 30 kVA output power with 720 Amps charging capacity.

Three phase capability

In addition to parallel connection, three units of the same model can be configured for three phase output. But that's not all: up to 6 sets of three units can be parallel connected for a huge 75 kW / 90 kVA inverter and more than 2000 Amps charging capacity.

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

The MultiPlus is a very powerful battery charger. It will therefore draw a lot of current from the generator or shore side supply (nearly 10 A per 5 kVA Multi at 230 VAC). With the Multi Control Panel a maximum generator or shore current can be set. The MultiPlus will then take account of other AC loads and use whatever is extra for charging, thus preventing the generator or shore supply from being overloaded.

PowerAssist - Boosting the capacity of shore or generator power

This feature takes the principle of PowerControl to a further dimension. It allows the MultiPlus to supplement the capacity of the alternative source. Where peak power is so often required only for a limited period, the MultiPlus will make sure that insufficient shore 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 MultiPlus 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 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.

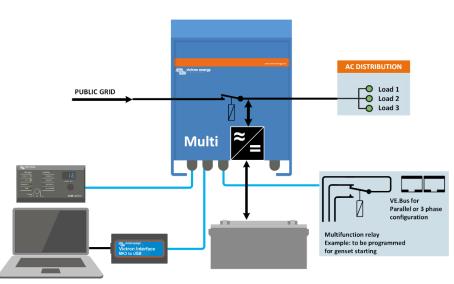
Data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge.

Remote configuring

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



Color Control Panel, showing a PV application



C 24/ 800/16	C 24/1200/25	C 24/1600/40	C 24/2000/50	24/3000/70	24/5000/120
				48/3000/35	48/5000/70
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
16	16		30	16 or 50	100
			10 221/ 20 661/		
800		3			5000
					4000
					3700
					3000
					10.000
		93 / 94	93 / 94		94/95
		8/10	9/11		30/35
		5/8	7/9	15/15/20	25/30
2/3	2/3	2/3	3/4	8/10/12	10/15
	(CHARGER			
	Input voltage ra	inge: 187-265 VAC	Input frequency: 45 – 65	Hz Power factor: 1	
	14,4 / 28,8 / 57,6				
13,8 / 27,6 / 55,2					
			2 / 26,4 / 52,8		
35 / 16	50 / 25		80 / 50	120 / 70 / 35	120 / 70
		4 (12 V an	d 24 V models only)		
		CENEDAL	yes		
n.a.			n.a.	Yes (16A)	Yes (50A)
			Yes		
a-g					
For parallel and three phase operation, remote monitoring and system integration					
n.a.	n.a.	n.a.	n.a.	Yes	Yes
			Yes		
			isted cooling) Humidity	(non-condensing): max 95	i%
battery capies of 1.5 meter		INIO DOILS		a 2 minus connectior	
	G-ST18i connector		Spring-clamp	mm ² (6 AWG)	M6 bolts
10	10	10	12	18	30
			520x255x125	362x258x218	444x328x240
	375x214x110		52072557125		
		TANDARDS			
	ST	EN-IEC 60335-1, EN	-IEC 60335-2-29, IEC 621(22 6 2
EN	ST	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I	-IEC 60335-2-29, IEC 6210 EC 61000-3-3, IEC 61000-	09-1 6-1, IEC 61000-6-2, IEC 610	00-6-3
EN	ST	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I 12V and 24	-IEC 60335-2-29, IEC 6210 EC 61000-3-3, IEC 61000- V models: ECE R10-4		00-6-3
EN	ST V 55014-1, EN 55014-2,	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I 12V and 24 See	-IEC 60335-2-29, IEC 6210 EC 61000-3-3, IEC 61000-		00-6-3
13	ST	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I 12V and 24 See	-IEC 60335-2-29, IEC 6210 EC 61000-3-3, IEC 61000- V models: ECE R10-4		00-6-3
P P	ST \$55014-1, EN 55014-2, 3) Non-linear load, cres 4) At 25°C ambient 5) Switches off when n	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I 12V and 24 Sec it factor 3:1 o external AC source availa	-IEC 60335-2-29, IEC 621(EC 61000-3-3, IEC 61000- V models: ECE R10-4 e our website ble		00-6-3
13	ST S5014-1, EN 55014-2, 3) Non-linear load, cres 4) At 25°C ambient 5) Switches off when n 6) Programmable relay	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I 12V and 24 See it factor 3:1 o external AC source availa that can a.o. be set for gen	-IEC 60335-2-29, IEC 621(EC 61000-3-3, IEC 61000- V models: ECE R10-4 our website ble eral alarm,		00-6-3
13 13	ST S5014-1, EN 55014-2, 3) Non-linear load, cres 4) At 25°C ambient 5) Switches off when n 6) Programmable relay	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I 12V and 24 Sec it factor 3:1 o external AC source availa	-IEC 60335-2-29, IEC 621(EC 61000-3-3, IEC 61000- V models: ECE R10-4 our website ble eral alarm,		00-6-3
13 13	ST 3) Non-linear load, cree 4) At 25°C ambient 5) Switches off when n 6) Programmable relay DC under voltage or AC rating: 230 V/4A	EN-IEC 60335-1, EN EN-IEC 61000-3-2, EN-I 12V and 24 See it factor 3:1 o external AC source availa that can a.o. be set for gen	-IEC 60335-2-29, IEC 621(EC 61000-3-3, IEC 61000- V models: ECE R10-4 our website ble eral alarm,		00-6-3
	Yes 16 800 700 650 400 1600 92/94 8/10 5/8 2/3 35/16 n. a. n. a.	C 24/ 800/16 C 24/1200/25 Yes Yes Yes Yes 16 16 0utput 000 800 1200 700 1000 650 900 400 600 1600 2400 92/94 93/94 8/10 8/10 5/8 5/8 2/3 2/3 2/3 2/3 35/16 50/25	C 24/ 800/16 C 24/1200/25 C 24/1600/40 Yes Yes Yes Yes Yes Yes 16 16 16 INVERTER 9,5 - 17 V Output voltage: 230 VAC \pm 29 800 1200 1600 700 1000 1300 650 900 1200 400 600 800 1600 2400 3000 92/94 93/94 93/94 8/10 8/10 8/10 5/8 5/8 5/8 2/3 2/3 2/3 CHARGER Input voltage range: 187-265 VAC Ith put voltage range: 187-265 VAC <	C 24/ 800/16 C 24/1200/25 C 24/1600/40 C 24/2000/50 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes 16 16 16 30 INVERTER Output voltage: 230 VAC ± 2% Frequency: 50 800 1200 1600 2000 700 1000 1300 1600 2000 1400 600 800 1000 1600 2000 1400 600 800 1000 1600 650 904 1200 1400 600 800 1000 1600 650 920 1200 1400 600 800 1000 1600 650 92/94 93/94	C 24/ 800/16 C 24/1200/25 C 24/1500/40 C 24/2000/50 24/3000/70 48/3000/35 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes 16 16 16 30 16 or 50 16 or 50 NVERTER 9.5 - 17 V 19 - 33 V 38 - 66 V Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0,1% (1) 800 1200 1600 2000 3000 700 1000 1300 1600 2400 650 900 1200 1400 2200 400 600 800 1000 1700 1600 2400 3000 4000 6000 92/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94 93/94



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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 Provides monitor and control. Locally, and also remotely on the 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. The monitor also stores a host of data regarding performance and use of the battery.

Several models available (see battery monitor documentation).

