

MultiPlus-II Inverter/Charger

230 V

BLUE POWER

Victron online product page

victron energy

https://ve3.nl/6H



A MultiPlus, plus ESS (Energy Storage System) functionality

The MultiPlus-II is a multifunctional inverter/charger with all the features of the MultiPlus, plus an external current sensor option which extends the PowerControl and PowerAssist function to 50A resp. 100A. The MultiPlus-II is ideally suited for professional marine, yachting, vehicle and land based off-grid applications. It also has built-in anti-islanding functionality, and an increasingly long list of country approvals for ESS application. Several system configurations are possible. For more detailed information see the ESS Design and configuration manual.

PowerControl and PowerAssist - Boosting the capacity of the grid or a generator

A maximum grid or generator current can be set. The MultiPlus-II will then take account of other AC loads and use whatever is extra for battery charging, thus preventing the generator or grid from being overloaded (PowerControl function).

PowerAssist takes the principle of PowerControl to a further dimension. Where peak power is so often required only for a limited period, the MultiPlus-II will compensate insufficient generator, shore or grid power with 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-II can be used in off grid as well as grid connected PV and other alternative energy systems. It is compatible with both solar charger controllers and grid-tie inverters.

Two AC Outputs

The main output has no break functionality. The MultiPlus-II 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-II. 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 (not for the 8k, 10k and 15k models) and three phase operation

Up to 6 Multis can operate in parallel to achieve higher power output. Six 48/5000/70 units, for example, will provide 25 kW / 30 kVA output power with 420 Amps charging capacity.

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 75 kW / 90 kVA inverter and more than 1200 Amps charging capacity.

On-site system configuring, monitoring and control

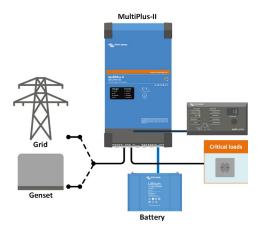
Settings can be changed in a matter of minutes with VEConfigure software (computer or laptop and MK3-USB interface needed).

Several monitoring and control options are available: Cerbo GX, Color Control GX, Venus GX, Octo GX, CANvu GX, laptop, computer, Bluetooth (with the optional VE.Bus Smart dongle), Battery Monitor, Digital Multi Control Panel.

Remote configuring and monitoring

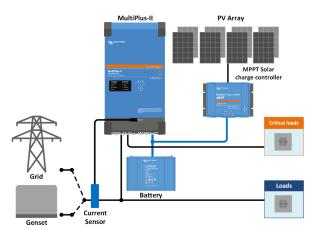
Install a Cerbo GX or other GX product to connect to the internet.

Operational data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge. When connected to the internet, systems can be accessed remotely, and settings can be changed.



Standard marine, mobile or off-grid application

Loads that should shut down when AC input power is not available can be connected to a second output (not shown). These loads will be taken into account by the PowerControl and PowerAssist function in order to limit AC input current to a safe value when AC power is available.



Grid parallel topology with MPPT solar charge controller The MultiPlus-II will use data from the external AC current sensor (must be ordered separately) or power meter to optimise selfconsumption and, if required, to prevent grid feed. In case of a power outage, the MultiPlus-II will continue to supply the critical loads



GX Touch and Cerbo GX

Provides intuitive system control and monitoring Besides system monitoring and control the Cerbo GX 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 email.



VRM app

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

VE.Bus Smart Dongle Measures battery voltage and temperature and allows monitoring and control with a smart phone or other Bluetooth enabled device.

	12/3000/120-32 24/5000/120-50		48/8000/	48/10000/	48/15000/
MultiPlus-II 230V	24/3000/70-32	48/5000/70-50	110-100	140-100	200-100
PowerControl & PowerAssist	48/3000/35-32		Yes		
Transfer switch	32 A	50 A	100 A	100 A	100 A
	32 A 32 A	50 A	100 A 100 A	100 A	100 A 100 A
Maximum AC input current		IVERTER	100 A	100 A	100 A
DC Input voltage range			4V - 19–33V	48V – 38-66 V	
Output		voltage: 230 VAC ± 2		ncy: 50 Hz \pm 0,1°	% (1)
Cont. output power at 25°C (3)	3000 VA	5000 VA	8000 VA	10000 VA	15000 VA
Cont. output power at 25°C	2400 W	4000 W	6400 W	8000 W	12000 W
Cont. output power at 40°C	2200 W	3700 W	5500 W	7000 W	10000 W
Cont. output power at 65°C	1700 W	3000 W	4000 W	6000 W	7000 W
Max apparent feed-in power	3000 VA	5000 VA	8000 VA	10000 VA	15000 VA
Peak power	5500 W	9000 W	15000 W	18000 W	27000 W
Maximum efficiency	93%/94%/95%	96%	95%	96%	95%
Zero load power	13/13/11W	18 W	29 W	38 W	55 W
Zero load power in AES mode	9/9/7W	12 W	19 W	27 W	39 W
Zero load power in Search mode	3/3/2W	2 W	3 W	4 W	6 W
	Cl	HARGER			
AC Input	Input voltage range: 187-265 VAC				
•	Input frequency: 45 – 65 Hz				
Charge voltage 'absorption'	14,4 / 28,8 / 57,6 V				
Charge voltage 'float'			/ 27,6 / 55,2 V		
Storage mode	13,2 / 26,4 / 52,8 V				
Max. battery charge current (4)	120 /70 / 35 A	120 / 70 A	110 A	140 A	200 A
Battery temperature sensor			Yes		
		ENERAL			
Auxiliary output	Yes ((32A)		Yes (50A)	
External AC current sensor (optional)		50	0A or 100A		
Programmable relay (5)			Yes		
Protection (2)	For para	allel (not for 8k, 10k and	a – g	three phase energy	tion
VE.Bus communication port	r or para		ing and system in		tion,
General purpose com. port			Yes, 2x	2	
Remote on-off			Yes		
Operating temperature range	-40 to +65°C (fan assisted cooling)				
Humidity (non-condensing)			max 95%		
	ENG	CLOSURE			
Material & Colour		Steel,	blue RAL 5012		
Protection category			IP22		
rotection category	M8 bolts				
	M8 H	polts			
Battery-connection				nd 2 minus coni	
Battery-connection 230 V AC-connection	Screw terminals	13 mm² (6 AWG)	Bolts M6	nd 2 minus con Bolts M6	Bolts M6
	Screw terminals 19 kg			nd 2 minus coni	
Battery-connection 230 V AC-connection Weight	Screw terminals 19 kg 546 x 275 x 147	13 mm² (6 AWG)	Bolts M6	nd 2 minus con Bolts M6	Bolts M6
Battery-connection 230 V AC-connection	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141	13 mm² (6 AWG) 30 kg	Bolts M6 42 kg	nd 2 minus con Bolts M6 49 kg	Bolts M6 80 kg
Battery-connection 230 V AC-connection Weight	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149	Bolts M6 42 kg 642 x 363 x	nd 2 minus con Bolts M6 49 kg 677 x 363 x	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 NDARDS	Bolts M6 42 kg 642 x 363 x 206	nd 2 minus con Bolts M6 49 kg 677 x 363 x 206	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29,	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 NDARDS EN-IEC 60335 EN-IEC 60335	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 NDARDS EN-IEC 60335 EN-IEC 60335 EN-IEC 60510 EN-S50	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62 14-1, EN 55014-	nd 2 minus con Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 NDARDS EN-IEC 60335 EN-IEC 60335 EN-IEC 60510 EN-S50	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 29-1, EN-IEC 62 14-1, EN 55014- -3-2, EN-IEC 610	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 2000-3-3	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety Emission, Immunity	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 NDARDS EN-IEC 60335 EN-IEC 60335 EN-IEC 61000	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 6033 09-1, EN-IEC 610 14-1, EN 55014 -3-2, EN-IEC 610 C 61000-6-2, IEC	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 200-3-3 5 61000-6-3	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety Emission, Immunity Uninterruptible power supply	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335 EN-IEC 60335 EN-IEC 61000 IEC 61000-6-1, IEC	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62 14-1, EN 55014- -3-2, EN-IEC 610 C 61000-6-2, IEC certificates on	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 100-3-3 5 61000-6-3 bur website.	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	13 mm ² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335 EN-IEC 60335 EN-IEC 61000 IEC 61000 IEC 61000 IEC 61000-6-1, IEC Please consult the Please consult the	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62 14-1, EN 55014- -3-2, EN-IEC 610 C 61000-6-2, IEC certificates on	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 100-3-3 5 61000-6-3 bur website.	Bolts M6 80 kg 810 x 405 x
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety Emission, Immunity Uninterruptible power supply Anti-islanding 1) Can be adjusted to 60 Hz 2) Protection key:	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141 STA 3) Non-linear load, c 4) Up to 25°C ambie	13 mm ² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335 EN-IEC 60325 EN-IEC 61000 IEC 61000-6-1, IEC Please consult the Please consult the rest factor 3:1 mt	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 29-1, EN-IEC 6033 29-1, EN-IEC 610 -1, EN-IEC 610 -3-2, EN-IEC 610 -3-3, EN-IE	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 000-3-3 61000-6-3 our website. our website.	Bolts M6 80 kg 810 x 405 x 217
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety Emission, Immunity Uninterruptible power supply Anti-islanding 1) Can be adjusted to 60 Hz 2) Protection key: a) output short circuit	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141 STA 3) Non-linear load, c 4) Up to 25°C ambie 5) Programmable re	13 mm ² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335 EN-IEC 61000 IEC 61000-6-1, IEC Please consult the Please consult the rest factor 3:1 ent lay which can be set for	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62 14-1, EN 55014 -3-2, EN-IEC 610 C 61000-6-2, IEC certificates on certificates on certificates on	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 000-3-3 6 61000-6-3 50ur website. 50ur website.	Bolts M6 80 kg 810 x 405 × 217
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety Emission, Immunity Uninterruptible power supply Anti-islanding 1) Can be adjusted to 60 Hz 2) Protection key: a) output short circuit b) overload	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141 STA 3) Non-linear load, c 4) Up to 25°C ambie 5) Programmable re	13 mm ² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335 EN-IEC 60325 EN-IEC 61000 IEC 61000-6-1, IEC Please consult the Please consult the rest factor 3:1 mt	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62 14-1, EN 55014 -3-2, EN-IEC 610 C 61000-6-2, IEC certificates on certificates on certificates on	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 000-3-3 6 61000-6-3 50ur website. 50ur website.	Bolts M6 80 kg 810 x 405 x 217
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety Emission, Immunity Uninterruptible power supply Anti-islanding 1) Can be adjusted to 60 Hz 2) Protection key: a) output short circuit	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141 STA 3) Non-linear load, c 4) Up to 25°C ambie 5) Programmable re	13 mm ² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335 EN-IEC 61000 IEC 61000-6-1, IEC Please consult the Please consult the rest factor 3:1 ent lay which can be set for	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62 14-1, EN 55014 -3-2, EN-IEC 610 C 61000-6-2, IEC certificates on certificates on certificates on	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 000-3-3 6 61000-6-3 50ur website. 50ur website.	Bolts M6 80 kg 810 x 405 x 217
Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm Safety Emission, Immunity Uninterruptible power supply Anti-islanding 1) Can be adjusted to 60 Hz 2) Protection key: a) output short circuit b) overload c) battery voltage too high	Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141 STA 3) Non-linear load, c 4) Up to 25°C ambie 5) Programmable re	13 mm ² (6 AWG) 30 kg 607 x 330 x 149 565 x 320 x 149 INDARDS EN-IEC 60335 EN-IEC 61000 IEC 61000-6-1, IEC Please consult the Please consult the rest factor 3:1 ent lay which can be set for	Bolts M6 42 kg 642 x 363 x 206 -1, EN-IEC 6033 09-1, EN-IEC 62 14-1, EN 55014 -3-2, EN-IEC 610 C 61000-6-2, IEC certificates on certificates on certificates on	nd 2 minus com Bolts M6 49 kg 677 x 363 x 206 5-2-29, 109-2 2 000-3-3 6 61000-6-3 50ur website. 50ur website.	Bolts M6 80 kg 810 x 405 × 217



Connection Area MultiPlus-II 3k



Current sensor 100A:50mA To implement PowerControl and PowerAssist and to optimize selfconsumption with external current sensing. Maximum current: 50A resp. 100A. Length of connection cable: 1 m.



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

