

# MultiPlus-II Inverter/Charger

Victron online product page

230 V 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 and 10k 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  $25 \, \text{kW} / 30 \, \text{kVA}$  output power with  $420 \, \text{Amps}$  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

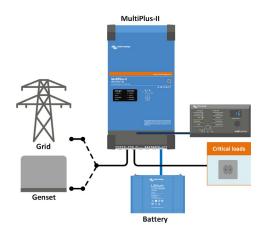
Settings can be changed in a matter of minutes with VEConfigure software (computer or laptop and MK3-USB interface needed)

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

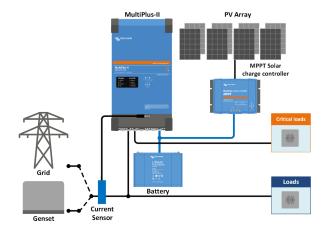
Install a Cerbo GX or other GX product to connect to the internet.

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 self-consumption 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 e-mail.



# 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
Maximum AC input current	32 A	50 A	100 A	100 A	100 A
	IN	VERTER			
DC Input voltage range	1	2V - 9,5–17 V 2	4V - 19–33V	48V – 38-66 V	
Output		voltage: 230 VAC ±		ncy: 50 Hz $\pm$ 0,19	
Cont. output power at 25°C (3)	3000 VA	5000 VA	8000 VA	10000 VA	15000 VA
Cont. output power at 25°C Cont. output power at 40°C	2400 W 2200 W	4000 W 3700 W	6400 W 5500 W	8000 W 7000 W	12000 W 10000 W
Cont. output power at 40 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 / 11 W	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
	C.	HARGER	o rango: 197 26	5 VAC	
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'		13,8	/ 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		
GENERAL           Auxiliary output         Yes (32A)         Yes (50A)					
External AC current sensor (optional)	Tes (		0A or 100A	Tes (SUA)	
Programmable relay (5)			Yes		
Protection (2)	a – g				
VE.Bus communication port	For parallel (not for 8k and 10k models) and three phase operation, remote monitoring and system integration				
		remote monitor	ing and system int	egration	
General purpose com. port		remote monitor	Yes, 2x	egration	
Remote on-off			Yes, 2x Yes		
Remote on-off Operating temperature range		-40 to +65°C	Yes, 2x Yes (fan assisted co		
Remote on-off	EN	-40 to +65°C	Yes, 2x Yes		
Remote on-off Operating temperature range Humidity (non-condensing)	ENG	-40 to +65°C CLOSURE	Yes, 2x Yes (fan assisted co max 95%		
Remote on-off Operating temperature range Humidity (non-condensing) Material & Colour	ENG	-40 to +65°C CLOSURE	Yes, 2x Yes (fan assisted co		
Remote on-off Operating temperature range Humidity (non-condensing)  Material & Colour Protection category		-40 to +65°C CLOSURE Steel,	Yes, 2x Yes (fan assisted co max 95% blue RAL 5012		
Remote on-off Operating temperature range Humidity (non-condensing)  Material & Colour Protection category  Battery-connection	M8 I	-40 to +65°C CLOSURE Steel, polts	Yes, 2x Yes (fan assisted co max 95% blue RAL 5012 IP22 (2 plus al	oling)	nections)
Remote on-off Operating temperature range Humidity (non-condensing)  Material & Colour Protection category  Battery-connection 230 V AC-connection	M8 I	-40 to +65°C CLOSURE Steel, polts 13 mm² (6 AWG)	Yes, 2x Yes (fan assisted co max 95% blue RAL 5012 IP22 (2 plus an Bolts M6	oling) Four M8 bolts nd 2 minus con Bolts M6	Bolts M6
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Remote on-off Operating temperature range Humidity (non-condensing)  Material & Colour Protection category Battery-connection 230 V AC-connection Weight Dimensions (hxwxd) mm  Safety Emission, Immunity Uninterruptible power supply	M8 I Screw terminals 19 kg 546 x 275 x 147 499 x 268 x 141 499 x 268 x 141	-40 to +65°C  CLOSURE  Steel,  colts  13 mm² (6 AWG)  30 kg  607 x 330 x 149  565 x 320 x 149  INDARDS  EN-IEC 60335  EN-IEC 6210  EN 550  EN-IEC 61000	Yes, 2x Yes Yes (fan assisted comax 95% blue RAL 5012 IP22 (2 plus and Bolts M6 42 kg 642 x 363 x 206 6-1, EN-IEC 6033 09-1, EN-IEC 6031 14-1, EN 55014-1 1-3-2, EN-IEC 610 C 61000-6-2, IEC certificates on comax 1000	Four M8 bolts and 2 minus cone Bolts M6 49 kg 677 x 363 x 206  5-2-29, 09-2 2 100-3-3 61000-6-3 bur website.	Bolts M6 80 kg 810 x 405 x
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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.

