

MultiPlus-II Inverter/Charger

▶ Victron online product page

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.



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 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

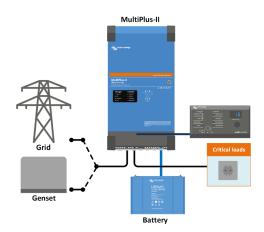
Settings can be changed in a matter of minutes with VEConfigure software (computer or laptop and MK3-USB interface

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

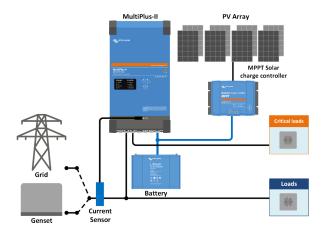
Install a Cerbo GX or other GX product to connect to the internet.

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 50 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.

Storage mode	13,2 / 26,4 / 52,8 V			
Maximum battery charge current (5)	120 /70 / 35 A	120 / 70 A	110 A	140 A
, ,		Y	es	
, ,	Lead-acid, Lithium, Zinc-Bromine and others (6)			
compatible battery chemistries				
Auxilians output				
	165 (32A)	163 (30A)
	50A or 100A			
	Voc			
Protection (2)				
VE.Bus communication port				
General purpose com. port	Yes, 2x			
	Yes			
, ,	China	max		
country of manaracture		SLIRE	maia	
Material & Colour	LIVELO.		RAL 5012	
rotection category				nlus and 2 minus
Battery-connection	M8 bolts		connections)	
230 V AC-connection	Screw terminals	13 mm² (6 AWG)		Bolts M6
				49 kg
reight	<u> </u>		12 119	12 119
			642 x 363 x	677 x 363 x
Dimensions (hxwxd) mm	499 x 268 x 141		0 12 X 505 X	
Diffictisions (fixwad) film		560 x 320 x	206	206
Diffictions (fixwxu) fiffi	499 x 268 x 141	560 x 320 x 141	206	206
Difference (fawad) film		141	206	206
	499 x 268 x 141	141 ARDS	206 N-IEC 60335-2-29,	206
Safety	499 x 268 x 141	141 ARDS EN-IEC 60335-1, E		206
	499 x 268 x 141	141 ARDS EN-IEC 60335-1, E EN-IEC 62109-1,	N-IEC 60335-2-29,	206
	499 x 268 x 141	141 ARDS EN-IEC 60335-1, E EN-IEC 62109-1, EN 55014-1,	N-IEC 60335-2-29, , EN-IEC 62109-2	206
Safety	499 x 268 x 141 STAND	141 ARDS EN-IEC 60335-1, E EN-IEC 62109-1, EN 55014-1, EN-IEC 61000-3-2,	N-IEC 60335-2-29, , EN-IEC 62109-2 , EN 55014-2	
Safety	499 x 268 x 141 STANDA	141 ARDS EN-IEC 60335-1, E EN-IEC 62109-1, EN 55014-1, EN-IEC 61000-3-2,	N-IEC 60335-2-29, , EN-IEC 62109-2 , EN 55014-2 , EN-IEC 61000-3-3	5-3
Safety Emission, Immunity Uninterruptible power supply Anti-islanding	499 x 268 x 141 STANDA IEC	141 ARDS EN-IEC 60335-1, E EN-IEC 62109-1, EN 55014-1, EN-IEC 61000-3-2, 61000-6-1, IEC 610 use consult the cert	N-IEC 60335-2-29, , EN-IEC 62109-2 , EN 55014-2 , EN-IEC 61000-3-3 000-6-2, IEC 61000-6	5-3 site.
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	Maximum battery charge current (5) Battery temperature sensor Compatible battery chemistries Auxiliary output External AC current sensor (optional) Programmable relay (7) Protection (2) VE.Bus communication port General purpose com. port Remote on-off Operating temperature range Humidity (non-condensing) Country of manufacture Material & Colour Protection category Battery-connection 230 V AC-connection Weight	Battery temperature sensor Compatible battery chemistries Lead GENEI Auxiliary output External AC current sensor (optional) Programmable relay (7) Protection (2) VE.Bus communication port General purpose com. port Remote on-off Operating temperature range Humidity (non-condensing) Country of manufacture China ENCLOS Material & Colour Protection category Battery-connection M8 b 230 V AC-connection Screw terminals 19 kg 546 x 275 x 147	Maximum battery charge current (5) 120/70/35 A 120/70 A Battery temperature sensor Y Compatible battery chemistries Lead-acid, Lithium, Zinc GENERAL Auxiliary output Yes (32A) External AC current sensor (optional) Programmable relay (7) Protection (2) VE.Bus communication port General purpose com. port Remote on-off Operating temperature range Humidity (non-condensing) Country of manufacture Material & Colour Protection category Battery-connection Weight 19 kg 30 kg 565 x 228 x 240	Maximum battery charge current (5) 120 /70 / 35 A 120 / 70 A 110 A Battery temperature sensor Yes Compatible battery chemistries Lead-acid, Lithium, Zinc-Bromine and other GENERAL Yes (32A) Yes (External AC current sensor (optional) Programmable relay (7) Yes Protection (2) A - g VE.Bus communication port General purpose com. port General purpose com. port Remote on-off Operating temperature range Humidity (non-condensing) Country of manufacture Material & Colour Protection category Battery-connection Screw terminals 13 mm² (6 AWG) Weight 19 kg 30 kg 42 kg 546 x 275 x 147 240 Maximum battery charge 110 A 120 /70 /70 A 120 /70 A 120 /70 /70 A 120 /70 /70 /70 120 /70 /70 /70 120 /70 /70

12/3000/120-3 24/3000/70-32

32 A

32 A

3000 VA

2400 W

2200 W

1700 W

3000 VA

5500 W

93%/94%/95%

13 / 13 / 11 W

9/9/7W

3/3/2W

NVERTER

12V - 9,5-17 V

Output voltage: 230 VAC \pm 2%

50 A

50 A

5000 VA

4000 W

3700 W

3000 W

5000 VA

9000 W

96%

18 W

12 W

2 W

100 A

100 A

8000 VA

6400 W

5500 W

4000 W

8000 VA

15000 W

95%

29 W

19 W

3 W

48V - 38-66 V

Frequency: $50 \text{ Hz} \pm 0.1\%$ (1)

24V - 19-33V

Input voltage range: 187-265 VAC

Input frequency: 45 – 65 Hz

14,4 / 28,8 / 57,6 V

13,8 / 27,6 / 55,2 V 13 2 / 26 4 / 52 8 V 100 A

100 A

10000 VA

8000 W

7000 W

6000 W

10000 VA

18000 W

96%

38 W

27 W

4 W

MultiPlus-II

Output

Peak power

AC Input (4)

Maximum efficiency

Zero load power

Transfer switch

PowerControl & PowerAssist

Maximum AC input current

Cont. output power at 25°C (3)

Maximum apparent feed-in power

Zero load power in AES mode

Charge voltage 'absorption'

Charge voltage 'float'

Zero load power in Search mode

Cont. output power at 25°C

Cont. output power at 40°C Cont. output power at 65°C

DC Input voltage range



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.

