

MultiPlus-II Inverter/chargers for off grid use in Australia

48/3000/35-32 230V, 48/3000/35-32 230V GX, 48/5000/70-50 230V, 48/5000/70-50 230V GX



MultiPlus-II

The MultiPlus-II

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 100A. The MultiPlus-II is ideally suited for professional marine, yachting, vehicle and land-based off-grid applications.

The MultiPlus-II GX

The MultiPlus-II GX model integrates a MultiPlus-II inverter/charger and a GX device with a 2x16-character display and the VE.Can, VE.Direct, USB and Ethernet ports.

PowerControl and PowerAssist - Boosting the capacity of a generator

A maximum 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 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 for insufficient generator power with power from the battery. When the load reduces, the spare power is used to recharge the battery.

Solar energy: AC power is available when the generator is off

The MultiPlus-II can be used in alternative energy systems. It is compatible with both DC solar charge controllers and AC PV inverters.

Two AC Outputs

The main AC output features no-break functionality. Upon generator disconnection the MultiPlus-II takes over the load supply in under 20ms, ensuring uninterrupted operation of computers and electronics. The second AC output is active only when the generator power is available on the AC input. Use this to connect non-critical loads that should not deplete battery, e.g., water heater or air conditioner.

Virtually unlimited power thanks to parallel and three-phase operation

Up to six units can operate in parallel to achieve higher power output. Six 48/5000/70 units, for example, will provide 25kW / 30kVA output power with 420A 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 six sets of three units can be parallel connected for a 75kW / 90kVA inverter and more than 1200A charging capacity. For parallel and three-phase setups, you can create a multi-unit system with one GX unit and other non-GX units.

Configuring, monitoring and control

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

Use the MultiPlus-II GX or add a Cerbo GX or Ekrano GX to a MultiPlus-II for local or remote connectivity.

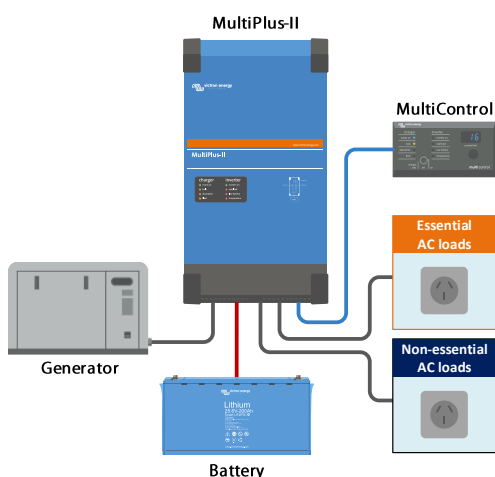
Operational data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge.

When connected to the internet, systems can be accessed remotely, and settings can be changed.

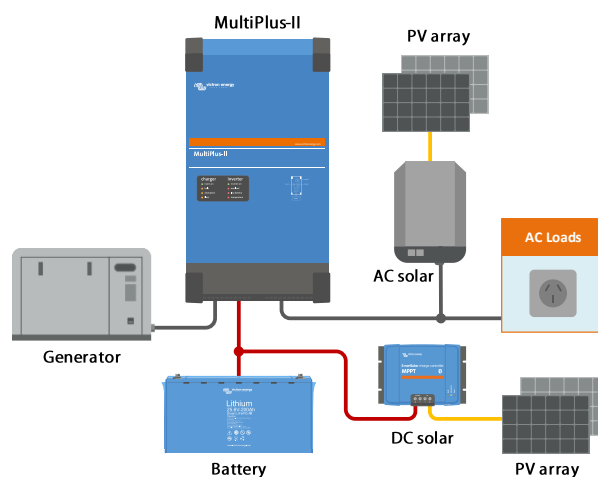
Other monitoring and control options are available as well, like the VictronConnect app together with a VE.Bus Smart dongle, a Battery Monitor or the Digital Multi Control Panel.



MultiPlus-II GX



Standard application



DC and/or AC solar power application



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.



Connection Area MultiPlus-II 3k



Connection Area MultiPlus-II 3k GX



Current sensor
To implement PowerControl and PowerAssist.



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

MultiPlus-II	48/3000/35-32 230V	48/3000/35-32 230V GX	48/5000/70-50 230V	48/5000/70-50 230V GX
PowerControl & PowerAssist	Yes			
Transfer switch	32 A		50 A	
Maximum AC input current	32 A		50 A	
INVERTER				
DC Input voltage range	38 – 66 V			
AC Output voltage	230 V ± 2%			
AC output frequency	50 Hz ± 0,1% (1)			
AC output current	11 A		19 A	
Cont. output power at 25°C (3)	3000 VA		5000 VA	
Cont. output power at 25°C	2400 W		4000 W	
Cont. output power at 40°C	2200 W		3700 W	
Cont. output power at 65°C	1700 W		3000 W	
Max apparent feed-in power	3000 VA		5000 VA	
Peak power	5500 W		9000 W	
Maximum efficiency	95%		96%	
Zero load power	11 W		18 W	
Zero load power in AES mode	7 W		12 W	
Zero load power in Search mode	2 W		2 W	
CHARGER				
AC Input voltage range	187-265 V			
AC Input frequency range	45 – 65 Hz			
Charge voltage 'absorption'	5.6 V			
Charge voltage 'float'	55.2 V			
Storage mode	52.8 V			
Max. battery charge current (4)	35 A		70 A	
Battery temperature sensor	Yes			
Compatible battery chemistries	Lead-acid, Lithium, Zinc-Bromine and others (5)			
GENERAL				
Auxiliary AC output	Yes (32A)			
External AC current sensor (optional)	50A		100A	
Programmable relay (6)	Yes			
Protection (2)	a – g			
Inbuilt GX device	No	Yes	No	Yes
VE.Bus communication port	Yes			
VE.Can port	No	Yes	No	Yes
VE.Direct port	No	Yes	No	Yes
USB port	No	Yes	No	Yes
Ethernet port	No	Yes	No	Yes
General purpose communication port	Yes, 2x			
Remote on/off terminal	Yes			
Operating temperature range	-20 to +65°C (fan assisted cooling)			
Humidity (non-condensing)	max 95%			
Maximum altitude	2000m			
Country of manufacture	China		India	
ENCLOSURE				
Material & Colour	Steel, blue RAL 5012			
Protection category	IP21			
Battery-connection	M8 bolts			
AC connections	Screw terminals for wire up to 13mm² (6 AWG)			
Weight	18 kg	18 kg	29 kg	29 kg
Dimensions hwxwd (mm)	506 x 275 x 147	506 x 275 x 147	565 x 320 x 148	565 x 320 x 148
STANDARDS				
Safety	EN-IEC 60335-1, EN-IEC 60335-2-29, EN-IEC 62109-1, EN-IEC 62109-2			
Emission, Immunity	EN 55014-1, EN 55014-2 EN-IEC 61000-3-2, EN-IEC 61000-3-3 IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3			
1) Can be adjusted to 60Hz 2) Protection key: a) output short circuit b) overload c) battery voltage too high d) battery voltage too low e) temperature too high f) 230Vac on inverter output g) input voltage ripple too high 3) Non-linear load, crest factor 3:1 4) Up to 25°C ambient 5) Other chemistries are possible as well, providing the charger is configured confirm the battery manufacturer's specifications. 6) Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function. AC rating: 230V / 4A, DC rating: 4A up to 35VDC and 1A up to 60VDC				

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