

# MultiPlus-II Inverter/Charger 4k5 & 6k5 GX

230V



MultiPlus-II 6k5 GX

**New models:** more power per kg and per dm<sup>3</sup>, and better high temperature performance

### A MultiPlus-II with LCD and GX functionality

The MultiPlus-II GX integrates a MultiPlus-II inverter/charger and a GX device with a 2 x 16 character display.

### Display and WiFi

The display reads battery, inverter and solar charge controller parameters.

The same parameters can be accessed with a smartphone or other WiFi enabled device.

### GX device

The integrated GX device includes:

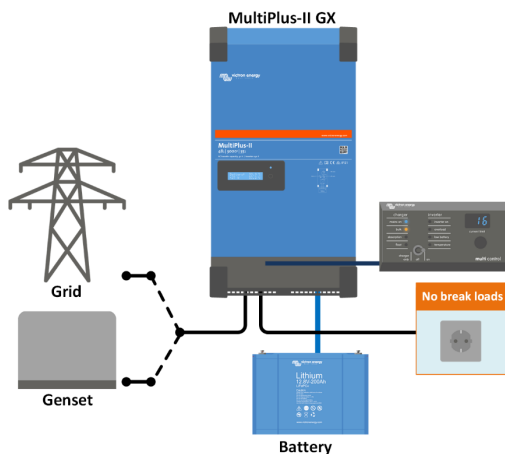
- A BMS-Can interface. This can be used to connect to a compatible CAN-bus managed battery. Note that this not a VE.Can compatible port.
- A USB port.
- An Ethernet port.
- A VE.Direct port.

### Applications

The MultiPlus-II GX is intended for applications where additional interfacing with other products and/or remote monitoring is required, such as on-grid or off-grid energy storage systems and certain mobile applications.

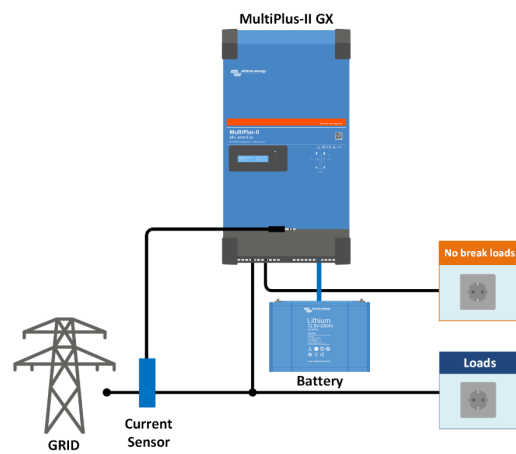
### Parallel and three phase operation

Only one GX unit is needed in case of Parallel and three phase operation.



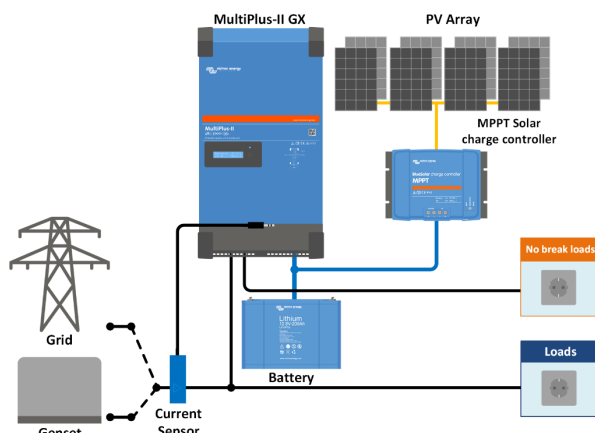
### Standard marine, mobile or off-grid application

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.



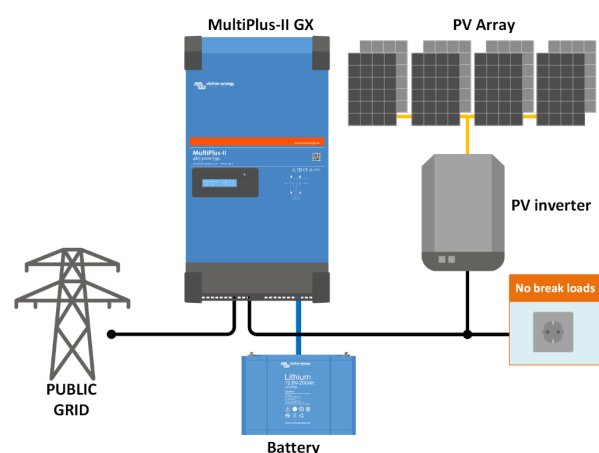
### Standard mobile or off-grid application with external current sensor

Maximum current sensing range: 100 A.



### Grid parallel topology with MPPT solar charge controller

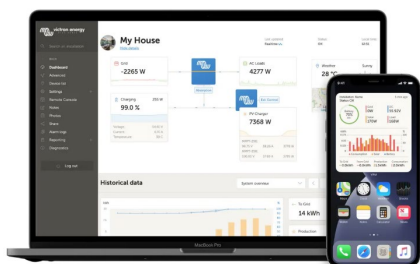
The MultiPlus-II will use data from the external AC current sensor (must be ordered separately) or power meter to optimise self-consumption and, if required, to prevent grid feed. In case of a power outage, the MultiPlus-II will continue to supply the critical loads.



### Grid in-line topology with PV inverter

PV power is directly converted to AC.

The MultiPlus-II will use excess PV power to charge the batteries or to feed power back into the grid, and will discharge the battery or use power from the grid to supplement a shortage of PV power. In case of a power outage, the MultiPlus-II will disconnect the grid and continue to supply the loads.



### VRM Portal

Our free remote monitoring website (VRM) will display all system data in a comprehensive graphical format. System settings can be changed remotely via the portal. Alarms can be received by e-mail or push notification.

### VRM app

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



### GX GSM

A cellular modem; providing a mobile internet for the system and connection to Victron Remote Management (VRM). Optional: outdoor GSM antenna and GPS antenna. For more detail please enter *GX GSM* in the search box on our website



Connection Area



### Current sensor 100 A:50 mA

To implement PowerControl and PowerAssist and to optimize self-consumption with external current sensing. Maximum current: 100 A. 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.

MultiPlus-II GX 230V	48/4k5/55-32	48/6k5/100-50
PowerControl & PowerAssist	Yes	
Transfer switch	32 A	50 A
Maximum AC input current	32 A	50 A
<b>INVERTER</b>		
DC Input voltage range	38 – 60 V	
Output	230 V ± 2 %	50 Hz ± 0.1% <sup>(1)</sup>
Cont. output power at 25 °C	4 kW	6 kW
Cont. output power at 40 °C	3,7 kW	5,7 kW
Cont. output power at 65 °C	3 kW	4,6 kW
Time-limited power 1 (cold start)	4,5 kW/2h	6,5 kW/4h
Time-limited power 2 (cold start)	6 kW/25min	8 kW/1h
Max apparent feed-in power	4 kW	6 kW
Peak power	7 kW/1min	11 kW/1min
Maximum efficiency	95 %	96 %
Zero load power	20 W	28 W
Zero load power in AES mode	13 W	18 W
Zero load power in Search mode	8 W	8 W
<b>CHARGER</b>		
AC Input voltage range	187-265 V	
AC Input frequency range	45 – 65 Hz	
Charge voltage 'absorption'	57,6 V	
Charge voltage 'float'	55,2 V	
Storage mode	52,8 V	
Max. battery charge current at 25 °C	55 A	100 A
Max. battery charge current at 40 °C	50 A	95 A
Battery temperature sensor	Optional. Order number: ASS000001000	
Compatible battery chemistries	Lithium, Lead-acid, Zinc-Bromine and more <sup>(3)</sup>	
<b>GENERAL</b>		
Auxiliary output	Yes (32 A)	
Interfaces	BMS-Can, USB, Ethernet, VE.Direct, Wi-Fi	
External AC current sensor (optional)	100 A	
Programmable relay <sup>(4)</sup>	Yes	
Protection <sup>(2)</sup>	a–g	
VE.Bus communication port	For parallel and three-phase operation, remote monitoring and system integration	
General-purpose communication port	Yes, 2x	
Remote on-off	Yes	
Operating temperature range	-40 to +65 °C (fan-assisted cooling)	
Maximum humidity (non-condensing)	95 %	
Maximum altitude	2000 m	
<b>ENCLOSURE</b>		
Material & Colour	Steel, blue RAL 5012	
Protection category	IP21	
Battery-connection	M8 bolts	
230 V AC connection	Screw terminals 13 mm <sup>2</sup> (6 AWG)	
Weight	21,4 kg	29 kg
Dimensions (h x w x d)	590 x 275 x 149 mm	644 x 320 x 150 mm
<b>STANDARDS</b>		
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	
Uninterruptible power supply	Certification pending	
Anti-islanding	Certification pending	

- 1) Can be adjusted to 60 Hz
- 2) Protection key:
  - a) output short circuit
  - b) overload
  - c) battery voltage too high
  - d) battery voltage too low
  - e) temperature too high
  - f) 230 VAC on inverter output
  - g) input voltage ripple too high

- 3) Other chemistries are possible as well, providing the charger is configured according to the battery manufacturer's specification.
- 4) Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function.  
AC rating: 230 V / 4 A, DC rating: 4 A up to 35 VDC and 1 A up to 60 VDC.