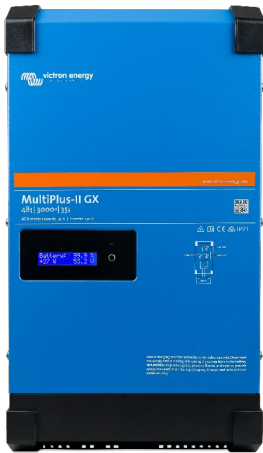


# MultiPlus-II GX Inverter/Charger

MultiPlus-II 24/3000/70-32 GX, 48/3000/35-32 GX & 48/5000/70-50 GX



## 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 Wi-Fi

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

The same parameters can be accessed with a smartphone or other Wi-Fi enabled device.

### GX device

The integrated GX device includes:

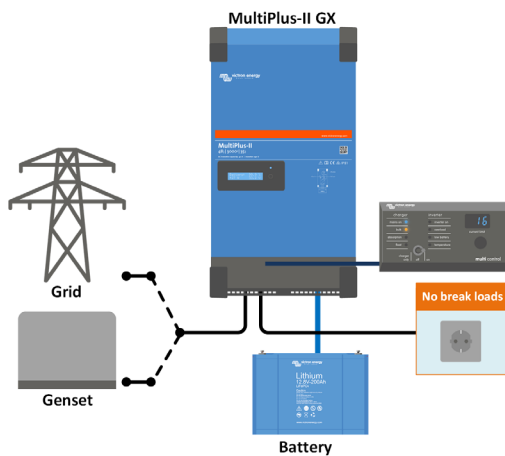
- A VE.Can interface. This can be used to connect to Victron VE.Can devices (eg VE.Can MPPTs), or the port can be reconfigured via the Remote Console for use with a compatible CAN-bus Li-ion Battery.
- A USB port.
- A Ethernet port.
- A VE.Direct port.

### 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.

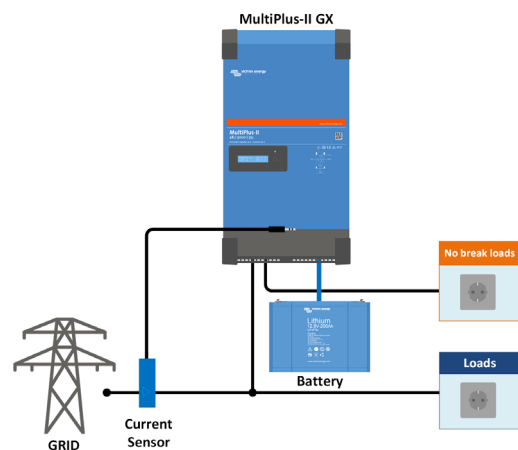
### Parallel and three phase operation

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



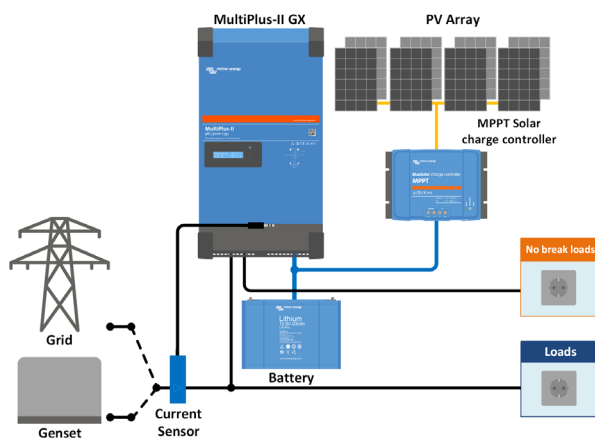
#### Standard marine, mobile or off-grid application

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.



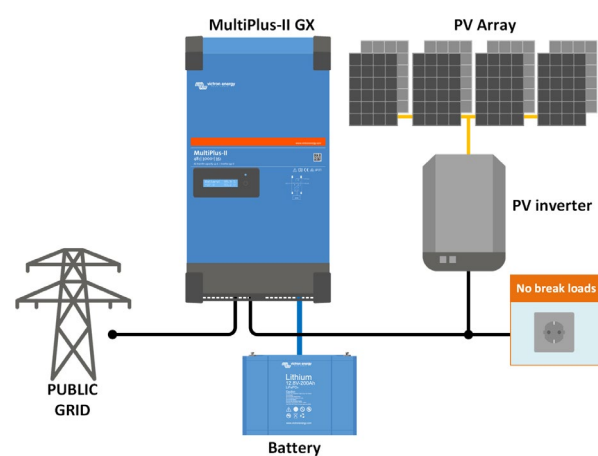
#### Standard mobile or off-grid application with external current sensor

Maximum current sensing range: 50A resp 100A



#### Grid parallel topology with MPPT solar charge controller

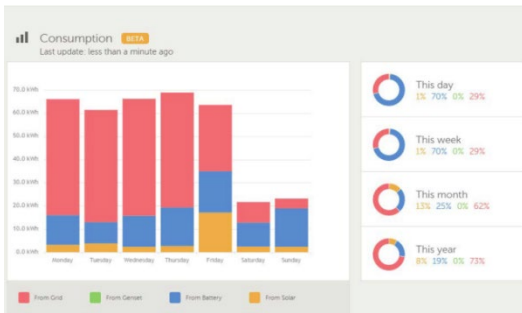
The MultiPlus-II will use data from the external AC current sensor (must be ordered separately) or power meter to optimise self-consumption and, if required, to prevent grid feed. In case of a power outage, the MultiPlus-II will continue to supply the critical loads



#### 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 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 for Wi-Fi

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 100A:50mA

To implement PowerControl and PowerAssist and to optimize self-consumption 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.

| MultiPlus-II GX                       | 24/3000/70-32   | 48/3000/35-32   | 48/5000/70-50 |
|---------------------------------------|---|-----------------|---------------|
| PowerControl & PowerAssist            | Yes   |                 |               |
| Transfer switch                       | 32A   | 50A             |               |
| Maximum AC input current              | 32A   |                 |               |
| Auxiliary output                      | Yes (32A)   |                 |               |
| <b>INVERTER</b>                       |   |                 |               |
| DC Input voltage range                | 19 – 33V  | 38 – 66V        |               |
| Output                                | Output voltage: 230 VAC ± 2%<br>Frequency: 50 Hz ± 0,1% (1)   |                 |               |
| Cont. output power at 25°C (3)        | 3000VA  | 5000VA          |               |
| Cont. output power at 25°C            | 2400W   | 4000W           |               |
| Cont. output power at 40°C            | 2200W   | 3700W           |               |
| Cont. output power at 65°C            | 1700W   | 3000W           |               |
| Maximum apparent feed-in power        | 2500VA  | 4000VA          |               |
| Peak power                            | 5500W   | 9000W           |               |
| Maximum efficiency                    | 94%   | 95%             | 96%           |
| Zero load power                       | 13W   | 11W             | 18W           |
| Zero load power in AES mode           | 9W  | 7W              | 12W           |
| Zero load power in Search mode        | 3W  | 2W              | 2W            |
| <b>CHARGER</b>                        |   |                 |               |
| AC Input                              | Input voltage range: 187-265 VAC<br>Input frequency: 45 – 65 Hz   |                 |               |
| Charge voltage 'absorption'           | 28,8V   | 57,6V           |               |
| Charge voltage 'float'                | 27,6V   | 55,2V           |               |
| Storage mode                          | 26,4V   | 52,8V           |               |
| Maximum battery charge current (4)    | 70A   | 35A             | 70A           |
| Battery temperature sensor            | Yes   |                 |               |
| <b>GENERAL</b>                        |   |                 |               |
| Interfaces                            | VE.Can, USB, Ethernet, VE.Direct, Wi-Fi   |                 |               |
| External AC current sensor (optional) | 50A   | 100A            |               |
| Programmable relay (5)                | Yes   |                 |               |
| Protection (2)                        | a – g   |                 |               |
| VE.Bus communication port             | For parallel and three phase operation, remote monitoring and system integration                            |                 |               |
| General purpose com. port             | Yes, 2x   |                 |               |
| Remote on-off                         | Yes   |                 |               |
| Operating temperature range           | -40 to +65°C (fan assisted cooling)   |                 |               |
| Humidity (non-condensing)             | max 95%   |                 |               |
| <b>ENCLOSURE</b>                      |   |                 |               |
| Material & Colour                     | Steel, blue RAL 5012  |                 |               |
| Protection category                   | IP22  |                 |               |
| Battery-connection                    | M8 bolts  |                 |               |
| 230 V AC-connection                   | Screw terminals 13 mm <sup>2</sup> (6 AWG)  |                 |               |
| Weight                                | 19 kg   | 30 kg           |               |
| Dimensions (h x w x d) mm             | 506 x 275 x 147   | 565 x 323 x 148 |               |
| <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<br>EN-IEC 61000-3-2, EN-IEC 61000-3-3<br>IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3 |                 |               |
| Uninterruptible power supply          | IEC 62040-1   |                 |               |
| Anti-islanding                        | Please consult the certificates on our website.   |                 |               |
| 1) Can be adjusted to 60 Hz           | 3) Non-linear load, crest factor 3:1  |                 |               |
| 2) Protection key:                    | 4) At 25°C ambient  |                 |               |
| a) output short circuit               | 5) Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function.   |                 |               |
| b) overload                           | AC rating: 230V / 4A, DC rating: 4A up to 35VDC and 1A up to 60VDC  |                 |               |
| 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      |   |                 |               |