**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 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 kW / 30 kVA output power with 420 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: 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 Color Control 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.

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**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.
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 Portal**

Besides system monitoring and control the CCGX enables access to our free remote monitoring website: the VRM Online Portal. Provides intuitive system control and monitoring with a rotary knob to set Protection, PowerControl and PowerAssist levels.

### Color Control Panel (CCGX)

Provides intuitive system control and monitoring. Enables remote monitoring and control with a rotary knob to set Protection, PowerControl and PowerAssist levels.

### 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

- **Current sensor 100A/50mA**
  - To implement PowerControl and PowerAssist and to optimize self-consumption with external current sensing.
  - Minimum 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.