Two AC Outputs
The main output has no break functionality. The MultiPlus 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. Loads that should not discharge the battery, like a water heater for example can be connected to this output (second output available on models rated at 3 kVA and more).

Virtually unlimited power thanks to parallel operation
Up to 6 Multis can operate in parallel to achieve higher power output. Six 24/5000/120 units, for example, will provide 25 kW / 30 kVA output power with 720 Amps charging capacity.

Three phase capability
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 huge 75 kW / 90 kVA inverter and more than 2000 Amps charging capacity.

PowerControl - Dealing with limited generator, shore side or grid power
The MultiPlus is a very powerful battery charger. It will therefore draw a lot of current from the generator or shore side supply (nearly 10 A per 5 kVA Multi at 230 VAC). With the Multi Control Panel a maximum generator or shore current can be set. The MultiPlus will then take account of other AC loads and use whatever is extra for charging, thus preventing the generator or shore supply from being overloaded.

PowerAssist - Boosting the capacity of shore or generator power
This feature takes the principle of PowerControl to a further dimension. It allows the MultiPlus to supplement the capacity of the alternative source. Where peak power is so often required only for a limited period, the MultiPlus will make sure that insufficient shore or generator power is immediately compensated for by 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 can be used in off grid as well as grid connected PV and other alternative energy systems. Loss of mains detection software is available.

System configuring
- In case of a stand-alone application, if settings have to be changed, this can be done in a matter of minutes with a DIP switch setting procedure.
- Parallel and three phase applications can be configured with VE.Bus Quick Configure and VE.Bus System Configurator software.
- Off grid, grid interactive and self-consumption applications, involving grid-tie inverters and/or MPPT Solar Chargers can be configured with Assistants (dedicated software for specific applications).

On-site Monitoring and control
Several options are available: Battery Monitor, Multi Control Panel, Ve.Net Blue Power Panel, Color Control Panel, smartphone or tablet (Bluetooth Smart), laptop or computer (USB or RS232). 

Remote Monitoring and control
Victron Ethernet Remote, Venus GX and the Color Control Panel.
Data can be stored and displayed on our VRM (Victron Remote Management) website, free of charge.

Remote configuring
When connected to the Ethernet, systems with a Color Control panel can be accessed remotely and settings can be changed.
### Inverter

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#### Interface
- **Graphic display of currents and voltages.**
- **VE.Net devices**, in particular the VE.Net Connects to a Multi or Quattro and all Blue Power Panel remote monitoring, with a rotary knob to change the view.

### Charger

#### General Characteristics
- **Operating temp. range:** -40 to +65°C (fan assisted cooling)
- **Humidity (non-condensing):** max 95%

#### Standards
- **Safety:** EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1
- **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
- **Road vehicles:** 12V and 24V models: ECE R104

#### MVCharger

- **AC input:** Input voltage range: 187-265 VAC
- **Input frequency:** 45 – 65 Hz
- **Power factor:** 1

#### Output
- **Output voltage:** 230 VAC ± 2%
- **Frequency:** 50 Hz ± 0.1%

#### Cont. current
- **Max. output power at 25°C**
  - 800 W
  - 1200 W
  - 1600 W
- **Max. output power at 25°C (W)**
  - 700 W
  - 1000 W
  - 1300 W
- **Max. output power at 40°C (W)**
  - 650 W
  - 900 W
  - 1200 W
- **Max. output power at 65°C (W)**
  - 400 W
  - 600 W
  - 800 W

#### Protection key
- **Can be adjusted to 60 HZ; 120 V 60 Hz on request**
- **Anti-islanding**
  - For parallel and three phase operation, remote monitoring and system integration

#### Common characteristics
- **Material & Colour:** Aluminium (blue RAL 5012)
- **Protection category:** IP 21

#### Dimensions (hxwxw in mm)
- **375x214x110**
- **520x255x125**
- **362x258x218**
- **444x328x240**

#### Screw terminals
- **M6 bolts**
- **Screw terminals 13 mm (6 AWG)**
- **Four M8 bolts (2 plus and 2 minus connections)**

#### Connection
- **240 V AC-connection**
  - G-ST18/8 connector
  - Spring-clamp
- **Battery connection**
  - Battery cables of 1.5 meter
  - M8 bolts

#### Specifications
- **Remote on/off**
  - Yes
- **Programmable relay**
  - Yes
- **Protection**
  - a - g
- **VE.Bus communication port**
  - For parallel and three phase operation, remote monitoring and system integration

#### Remote monitoring and system integration
- **Yes (50 A)**
- **Yes (16 A)**

#### Computer controlled operation and monitoring

Several interfaces are available:

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

- **Blue Power Panel**
  - Connects to a Multi or Quattro and all VE.Net devices, in particular the VE.Net Battery Controller.
  - Graphic display of currents and voltages.

- **Color Control GX**
  - Provides monitor and control. Locally, and also remotely on the VRM Portal.

- **MK3-USB VE.Bus to USB interface**
  - Connects to a USB port (see ‘A guide to VEConfigure’)

- **VE.Bus to NMEA 2000 interface**
  - Connects the device to a NMEA2000 marine electronics network. See the NMEA2000 & MFD integration guide.

- **BMV-700 Battery Monitor**
  - The BMV-700 Battery Monitor features an advanced microprocessor control system combined with high resolution measuring systems for battery voltage and charge/discharge current. Besides this, the software includes complex calculation algorithms, like Peukert’s formula, to exactly determine the state of charge of the battery. The BMV-700 selectively displays battery voltage, current, consumed Ah or time to go. The monitor also stores a host of data regarding performance and use of the battery. Several models available (see battery monitor documentation).