

MultiPlus-II 12/3000/120-UL : Off-Grid Inverter/Charger by Victron



Price: CAD \$1,399.00

SKU: VEMULTIPLUS-12-3000-120-UL

Product Categories: [Hybrid](#), [Hybrid Inverters: 2-3.9kW](#), [Inverters](#), [Off-Grid](#), [Off-Grid : Inverter/Chargers >3kW](#), [Off-Grid : Inverter/Chargers <3kW](#), [Shop](#)

Product Tags: [120vac](#), [12v](#), [3000W](#), [cabin](#), [canada](#), [inverter](#), [inverter/charger](#), [multiplus](#), [multiplus 2](#), [multiplus canada](#), [multiplus II](#), [off-grid](#), [PMP122305122](#), [PMP122305122 canada](#), [rv](#), [self consumption](#), [victron canada](#), [victron multiplus](#), [victron PMP122305122](#)

Product Page:

<https://www.modernoutpost.com/product/multiplus-ii-12-3000-120-ul-by-victron/>

Product Summary

This is the MultiPlus-II 12/3000/120-UL by Victron Energy. An exceptional inverter

built for small off-grid systems like cabins and RVs with a feature set that rivals much larger, more expensive models. It has all the features of the standard MultiPlus, plus an external current transformer option to implement PowerControl and PowerAssist functions, and to optimize self-consumption with external current sensing (max. 32A). It also has all the features of the Victron MultiGrid with built-in anti-islanding. Lithium-Ion battery compatible.

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MultiPlus-II Features

A MultiPlus with 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 100A.

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 Integration : 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, split phase and three phase operation Up to 6 Multis can operate in parallel to achieve higher power output. Six 48/3000/35 units, for example, will provide 15 kW / 18 kVA output power with 210 Amps charging capacity. In addition to parallel connection, two units of the same model can be connected for a 240 V split phase output, and 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 per phase.

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 Options

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.

MultiPlus-II 12/3000/120-UL Specifications In Brief

Victron Part Number : **PMP122305122 INVERTER**

DC Input voltage range : 9.5 - 17VDC

Continuous output power at 25 °C (non-linear loads) : 3000 VA

Continuous output power at 25 °C : 2400 W

Peak power : 5500 W

Maximum efficiency : 93%

Zero load power : 13W

Zero load power in AES mode : 9W

Zero load power in Search mode : 3W (doesn't waste precious energy overnight!)

PowerControl & PowerAssist : Yes

Transfer Switch : 50A

Maximum AC input current : 50A

CHARGER

AC Input Input voltage range : 90-140 VAC

Input frequency : 45 – 65 Hz

Max. battery charge current : 120 A

GENERAL

Auxiliary output : 32A

External AC current sensor (optional) : 100 A

VE.Bus communication port : For parallel, split-phase and three-phase operation, remote monitoring and system integration

Operating temperature range : -40 to +60 °C (-40 – 140 °F) (fan-assisted cooling)

Material & Colour : Steel, blue

Protection category : IP22

Battery-connection : M8 bolts

120 VAC-connection : 13 mm² (6 AWG)

Weight : 19 kg / 42 lb

Dimensions (hwxwd) : 57.8 x 27.7 x 14.8cm / 22.8 x 10.9 x 5.8"

SAFETY / CERTIFICATIONS

Listings : UL458

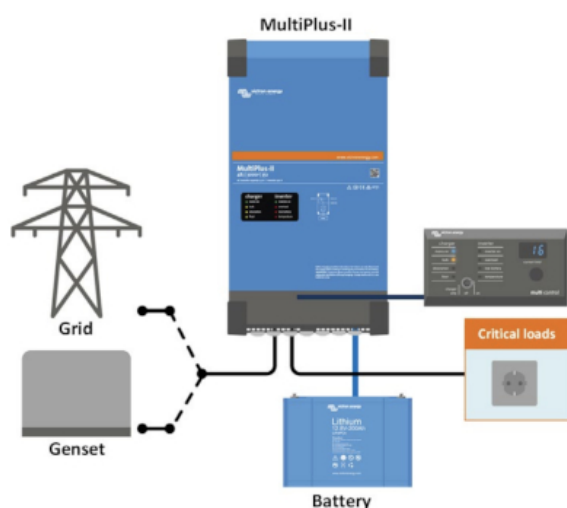
Safety : EN-IEC 60335-1, EN-IEC 60335-2-29, CSA 22.2 107.1-16

[Download the full spec sheet here\]](#)

Product Attributes

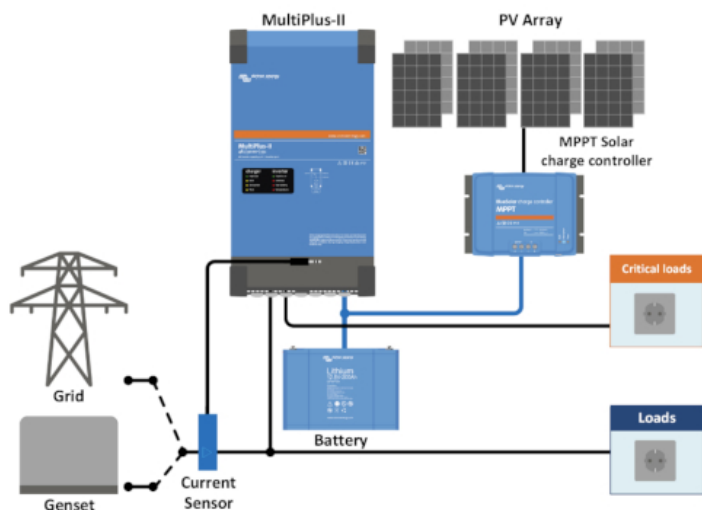
- Dimensions: 65 × 35 × 20 cm
- Weight: 20 kg

Product Gallery



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