



# Charger inverters dealers in Ghana

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The MultiPlus, as the name suggests, is a combined inverter and charger in one elegant package. Its many features include a true sine wave inverter, adaptive charging, hybrid PowerAssist technology, plus multiple system integration features.

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).

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 2000 Amps charging capacity.

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.

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.

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).

The Victron MultiPlus combines a powerful pure sine wave inverter with a sophisticated battery charger and a high-speed AC transfer switch encapsulated in a single compact enclosure. The MultiPlus can take an input from a generator or grid supply. It can be used in conjunction with a battery bank and solar PV inverter as an energy storage system. Up to 6 MultiPlus units can operate in parallel to achieve higher power output. Three phase or split phase operation is also possible.

Victron are a global leader in off-grid and battery storage systems, with over 40 years of expertise in the fields of renewable energy and portable power systems. Installation is a simple matter using the detailed instruction manual with fully illustrated colour wiring and mounting diagrams. The true benefit of the MultiPlus is the



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software functionality and advanced protection systems, with regular firmware updates constantly adding new features as and when the community request them.

**Proven reliability:** The full bridge plus toroidal transformer topology has proven its reliability over many years. The inverter is short circuit proof and protected against overheating, whether due to overload or high ambient temperature.

**PowerControl - Dealing with limited generator, shore side or grid power:** 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:** 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.

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