

MultiGrid 3000 VA

The flexible energy storage and self-consumption solution

www.victronenergy.co.nz



VDE-AR-N 4105 and AS/NZS 4777.2 approval

(other country specific approvals will follow soon)

Combined with the flexibility of a MultiPlus bidirectional converter

The MultiPlus range of bidirectional converters is the worldwide product of choice on boats and vehicles to generate AC power, and to recharge batteries, either with shore power or an onboard AC generator.

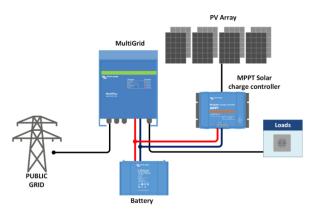
The MultiPlus also is the industry standard in on-grid and off-grid energy storage systems and is approved for use in energy storage and self-consumption systems in the UK (G83/2 and G59-3-1 standards).

Several hardware and firmware modifications were needed to qualify for VDE-AR-N 4105 and several other country specific energy storage related standards. The resulting product is the MultiGrid.

The MultiGrid fits seamlessly in all common energy storage topologies

There is no one-size-fits-all solution to energy storage. The building blocks, topology and control systems will depend on local conditions and regulations.

The MultiGrid hardware, together with a wide range of software tools, seamlessly fits in all common topologies, shown in the pictures below. More detail can be found in our Energy Storage brochure.



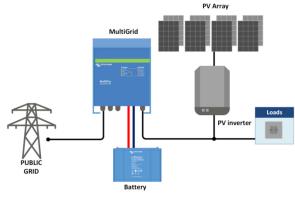
Hub 1

Grid in-line topology with MPPT solar charge controller.

A solar charge controller supplies PV power to the battery. The stored energy is used by the MultiGrid to supply AC power to the load and, if

required, to feed excess solar power back into the grid.

In case of a utility power outage, the MultiGrid will disconnect the grid and continue to supply the load.



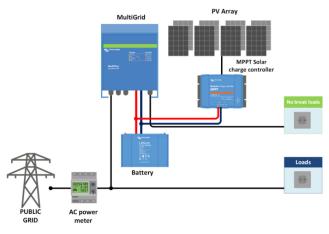
Hub 2

Grid in-line topology with PV inverter.

PV power is converted to AC.

The MultiGrid 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.

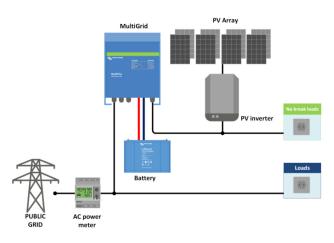
In case of a power outage, the MultiGrid will disconnect the grid and continue to supply the



Grid parallel topology with MPPT solar charge controller.

Certain critical loads only are protected against a power outage.

The MultiGrid will use data from the power meter to optimise self-consumption and, if required, to prevent back feed of excess solar power into the grid.



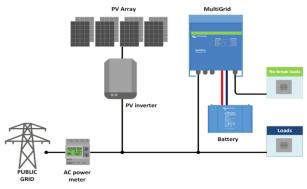
Grid parallel topology with PV inverter.

Certain critical loads only are protected against a power outage.

The MultiGrid will use data from the power meter to optimise self-consumption and, if required, to prevent back feed of excess solar power into the grid.







Hub 4-3
Grid parallel topology with PV inverter.
Similar to Hub 4-2 but in this topology the PV inverter will shut down in case of a power outage.

Certain critical loads only are protected against a power outage.

The MultiGrid will use data from the power meter to optimise self-

consumption and, if required, to prevent back feed of excess solar power into the grid.



Color Control Panel (CCGX)

Provides intuitive system control and monitoring
Besides system monitoring and control the CCGX enables access to our free remote monitoring website: the VRM Online Portal



VRM app

Which app Monitor and manage your Victron Energy system from your smart phone and tablet. Available for both iOS and Android.

MultiGrid 24 Volt	24/3000/70
A8 Volt	48/3000/35
PowerControl & PowerAssist Transfer switch	Yes 50 A
	IVERTER
Input voltage range	19 – 33 V 38 – 66 V
	Output voltage: 230 VAC ± 2%
Output	Frequency: 50 Hz \pm 0,1% (1)
Cont. output power at 25°C (3)	3000 VA
Cont. output power at 25°C	2400 W
Cont. output power at 40°C	2200 W
Cont. output power at 65°C	1700 W
Peak power (W)	6000 W
Maximum efficiency	94 / 95 %
Zero load power	20 / 25 W
Zero load power in AES mode	15 / 20 W
Zero load power in Search mode	10 / 12 W
CH	HARGER
AC Input	Input voltage range: 187-265 VAC
	Input frequency: 45 – 65 Hz
Charge voltage 'absorption'	28,8 / 57,6 V
Charge voltage 'float'	27,6 / 55,2 V
Storage mode	26,4 / 52,8 V
Charge current house battery (4)	70 / 35 A
Battery temperature sensor	yes
	ENERAL Yes (16.4)
Auxiliary output (5) Programmable relay (6)	Yes (16 A) Yes
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Protection (2)	a - g For parallel and three phase operation,
VE.Bus communication port	remote monitoring and system integration
General purpose com. port	Yes
Remote on-off	Yes
Operating temperature range	-40 to +65°C (fan assisted cooling)
Humidity (non-condensing)	max 95%
	CLOSURE
Material & Colour	Aluminium, blue RAL 5012
Protection category	IP 21
Battery-connection	Four M8 bolts (2 plus and 2 minus connections)
230 V AC-connection	Screw terminals 13 mm2 (6 AWG)
Weight	18 kg
Dimensions (hxwxd)	362 x 258 x 218 mm
	ANDARDS
	EN-IEC 60335-1, EN-IEC 60335-2-29,
Safety	EN-IEC 62109-1, EN-IEC 62109-2
	EN 55014-1, EN 55014-2
Emission, Immunity	EN-IEC 61000-3-2, EN-IEC 61000-3-3
	IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-
Uninterruptible power supply	IEC 62040-1
Anti-islanding	VDE-AR-N 4105, AS/NZS 4777.2
1) Can be adjusted to 60 HZ; 120 V 60 Hz on reque 2) Protection key: a) output short circuit b) overload c) battery voltage too high d) battery voltage too low	st



VRM Portal

VRM Portal
Our free remote monitoring website (VRM) can
display all your systems data in a comprehensive
graphical format. System settings can be
changed remotely via the portal. Alarms can be
received by e-mail.



