

MultiGrid 3000VA

The flexible energy storage and self-consumption solution

www.victronenergy.com



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).

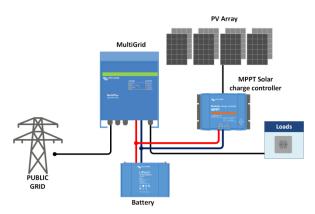
Several hardware and firmware modifications were needed to qualify for VDE-AR-N 4105 and several other country specific energy storage related standards.

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.

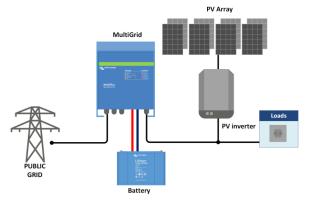
The MultiGrid hardware, together with a wide range of software tools, seamlessly fits in all common topologies, shown in the pictures below. More detail can be found in our Energy Storage brochure.



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.

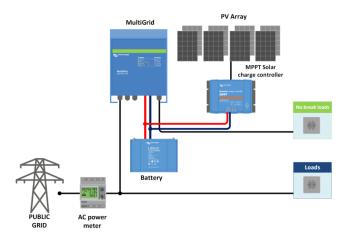


Grid in-line topology with PV inverter

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.

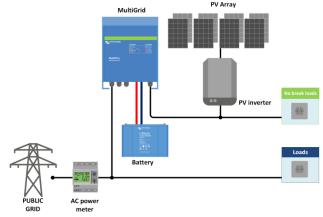
In case of a power outage, the MultiGrid will disconnect the grid and continue to supply the load.



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.

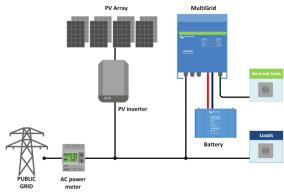


Grid parallel topology with PV inverter

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.





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 selfconsumption 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 appMonitor and manage your Victron Energy system from your smart phone and tablet. Available for both iOS and Android.

4/3000/70
-8/3000/35 Yes
50 A
30 A
38 – 66 V
age: 230 VAC ± 2%
: 50 Hz ± 0,1% (1)
3000 VA
2400 W
2200 W
1700 W
6000 W
4 / 95 %
0 / 25 W
5 / 20 W
0 / 12 W
range: 187-265 VAC
uency: 45 – 65 Hz
.8 / 57,6 V
.6 / 55,2 V
.4 / 52,8 V
'0 / 35 A
yes
nen no external AC source availab
Yes
a-g
three phase operation, ng and system integration
Yes
Yes
fan assisted cooling)
nax 95%
n, blue RAL 5012
IP 21
ır M8 bolts
! minus connections) als 13 mm2 (6 AWG)
18 kg
258 x 218 mm
.36 X 216 IIIIII
1, EN-IEC 60335-2-29,
9-1, EN-IEC 62109-2
4-1, EN 55014-2
3-2, EN-IEC 61000-3-3
61000-6-2, IEC 61000-6-3
0-1, AS 620401.1
/NZS 4777.2, NRS 097-2-1

5) Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function AC rating: 230V / 4A, DC rating: 4A up to 35VDC and 1A up to 60VDC



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.

