EasyGrid®

Lithium Hybrid Power Units for Sustainable 24/7 Electricity

ENERGY SOLUTIONS

Key Features:

- Ready to Use, pre-configured off grid battery system
- Incorporates DC Coupled MPPT solar charger for either a 6kw or 12kw array
- Incorporates remote monitoring functionality (SIM card or via local network connection)

Our EasyGrid range offers a sustainable and efficient alternative to using a diesel generator alone in off grid or remote locations. From construction sites to rural homes they can deliver power as needed.

The EasyGrid unit connects to a generator, and renewables if available, storing energy in it's battery bank until needed. When power requirements are low – silent, emission free electricity is supplied from the battery bank, allowing more cost efficient use of the generator. The generator now only needs to run when the loads are high or the batteries need to be topped up.

The EasyGrid range features five capacities each one utilising lithium batteries for the battery bank. Lithium batteries have numerous advantages over traditional batteries – they are faster to charge, offer a longer life expectancy and deliver greater power capacity from a lighter unit – which can be a huge benefit in remote locations.

Why use an **EasyGrid**® hybrid power system rather than a generator alone?

Connect renewables

Connect solar and wind for free, sustainable energy input.

Lower emissions

Reduce your carbon footprint and meet new legislative requirements.

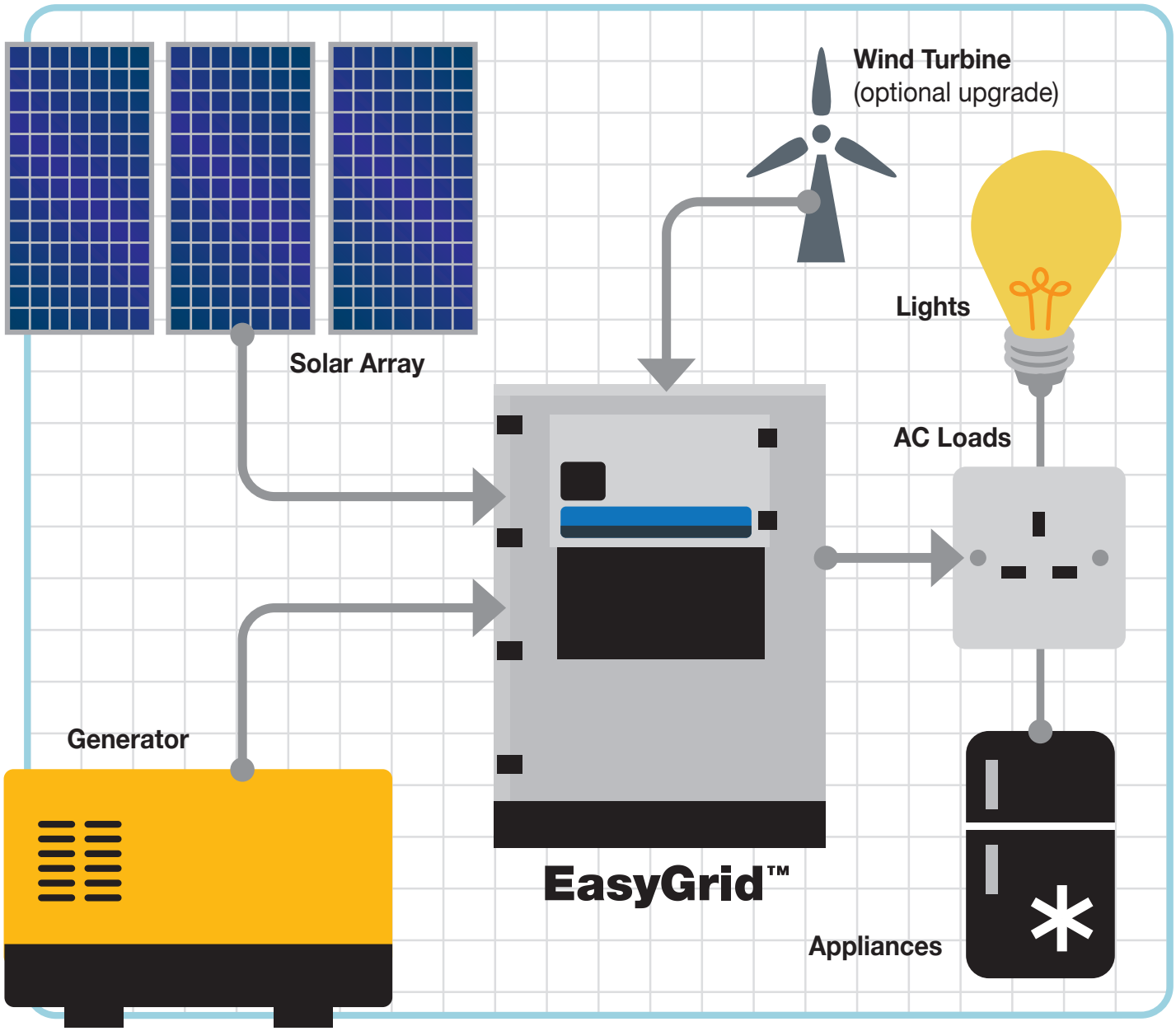
Reduce fuel costs

Less generator run time means less fuel, servicing and refuelling visits.

Silent running

For quiet periods or at night run from battery power.

An **EasyGrid**® hybrid power system



Standard **EasyGrid**® Control and Monitoring System

All our EasyGrid units come with this system as standard, allowing a broad range of monitoring and control features.

System overview

Battery state of charge; present power consumption; power from renewables; power from generator.

Auto generator start/stop

Auto-start your generator: trigger by low-voltage; high-demand; or battery state of charge – prevent start during 'quiet' periods.

VRM

Monitor your Hybrid Power Systems from anywhere in the world on the Victron Remote Management (VRM) Portal.

Remote console

A remote console feature is available. It's like carrying the front face of your CCGX control panel around on your phone.

System options and upgrades – renewable inputs

Solar

Adding renewable energy to your EasyGrid is an excellent way of further reducing your fuel costs and emissions. Solar is the most popular upgrade option on the EasyGrid range and gives a reliable input when sized and positioned correctly. Our team can help with determining the correct solar array size for your needs and each unit has detail on the sizing options that work to optimise your power for peak loads.

Each solar panel kit & extension packs comes complete with panels, cables and connectors for your project. Please ask for prices and we can include this with your quotation.

Wind

All EasyGrid systems have an upgrade option that allows owners to integrate a wind turbine as part of their renewable power input either at time of order or retrospectively. Whilst solar arrays are a good source of renewable power, wind turbines can also deliver valuable additional energy.

Solar power can produce great results when the sun is shining but that may be only for a few hours a day, particularly in the UK. A wind turbine, whilst it may not be as powerful, can be producing power at any point during the course of 24 hours.

By integrating this additional renewable source, further reductions in generator run time, emissions and running costs can be achieved.

EasyGrid® 5kVA & 15kVA specifications

	EasyGrid® 5000Li	EasyGrid® 15000Li
Inverter charger model	Victron MultiPlus 48V 5000VA	Victron Quattro 48V 15000VA
Transfer switch	100A	
AC input	187 - 265VAC 1PH	
DC voltage range	38 - 66V	
Output voltage	230VAC ± 2% frequency: 50Hz ± 0.1% (1)	
Cont. output at 25 °C	4000W	12000W
Cont. output at 40 °C	3700W	10000W
Generator Load Condition Start Point	3000W	9000W
Inlets (standard)	1 x 63A 1PH	
Outlets (standard)	1 x 63A 1PH and 1 x 16A 1PH	
	SOLAR CHARGE CONTROLLER (STANDARD)	
Model	Victron charge controller	
Max output current	100A (200A with additional solar upgrade)	
Max PV power suggested	6kW max. (12kW with additional solar upgrade)	
Max PV open circuit voltage	450V	
Operating temp. range	-20 to +50ºC (fan assisted cooling)	
	MONITORING	
Type	Victron VRM remote monitoring with touchscreen add: via 4G SIM card (not supplied) or Ethernet cable (via local network)	
	BATTERIES	
Type	Lithium Ion LiFePO4	
Nominal battery capacity	15kWh (31kWh option)	
Cyclic life	3250	
Usable battery capacity (80% DOD)	12kWh (25kWh option)	
	ENCLOSURE	
Dimensions (mm) (W x D x H)	913 x 913 x 1500	
Weight	278kg	602kg
Lifting options	Fork	
	UPGRADE OPTIONS	
Additional solar (upgrade to 12kW)	✓	
Wind	✓	
Integral 3G router	✓	
Centre lifting point	✗	
HEMS	✗	

Images are for illustrative purposes only and actual products and examples may differ from those shown. All details correct at time of going to press but subject to change. E & EO. Version: February 2025

ENERGY SOLUTIONS

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Made in the UK

Designed and built in the UK by Energy Solutions – with over 20 years of electrical power experience, each unit is manufactured to the exacting standards required for standalone power sources.