

EasyGrid Lithium

Hybrid Power Units for Sustainable 24/7 Electricity

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 its 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

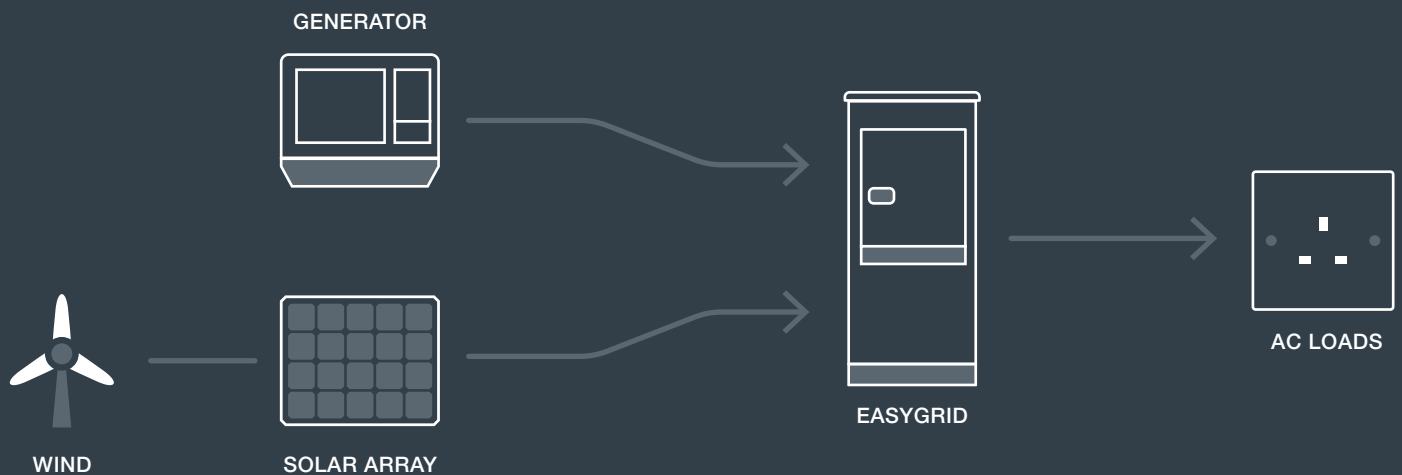
less generator run time means less fuel, servicing and refuelling visits



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.

VRM

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

Auto generator start/stop

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

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, 10kVA & 15kVA Specifications

| | EasyGrid 5000Li | EasyGrid 10000Li | EasyGrid 15000Li |
|---|---|---|---|
| |  |  |  |
| Inverter Charger Model | Victron MultiPlus 48V 5000VA | Victron Quattro 48V 10000VA | 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 | 9000W | 12000W |
| Cont. output at 40 °C | 3700W | 8000W | 10000W |
| Peak power | 10000W | 20000W | 25000W |
| Inlets (Standard) | 1 x 32A 1PH | 1 x 63A 1PH | |
| Outlets (Standard) | 1 x 32A 1PH and 1 x 16A 1PH | 1 x 63A 1PH and 1 x 16A 1PH | |
| SOLAR CHARGE CONTROLLER (STANDARD) | | | |
| Model | Victron BlueSolar Charge Controller | | |
| Max output current | 70A | 85A | 100A |
| Max PV power suggested | 4kW max. | 6.8kW max. | 9kW max. |
| Max PV open circuit voltage | 150V | 250V | |
| Operating temp. range | -20 to +50°C (fan assisted cooling) | | |
| MONITORING | | | |
| Type | Victron VRM With Waterproof Touchscreen | | |
| BATTERIES | | | |
| Type / Quantity | 2 X 24V | 4 X 24V | |
| Cyclic Life | 3250 | | |
| Type | Lithium Ion NCA (Nickel, Cobalt and Aluminium) | | |
| Capacity (80% DOD) | 10kWh (Usable 8kWh) | 20kWh (Usable 16kWh) | 30kWh (Usable 24kWh) |
| ENCLOSURE | | | |
| Dimensions (mm) (WxDxH) | 675 x 925 x 1450 | | 960 x 1420 x 1410 |
| Weight | 278kg | 355kg | 602kg |
| Lifting options | Fork | | |
| UPGRADE OPTIONS | | | |
| Solar | • | • | • |
| Additional Solar | ✓ | ✓ | ✓ |
| Wind | ✓ | ✓ | ✓ |
| Integral 3G Router | ✓ | ✓ | ✓ |
| Centre Lifting Point | ✘ | ✘ | ✓ |
| HEMS | ✘ | ✘ | ✓ |



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.

March 2021

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."