



EasyGrid 3000

Our EasyGrid range brings off grid power solutions to homes and businesses without a mains grid connection, at a reasonable cost. Rather than having to source separate components and have a bespoke system designed, our EasyGrid series offers a pre-configured, self-contained unit built from durable, high quality components; fully tested and ready to install. The EasyGrid 3000 enclosure is made from powder coated steel and is fully lockable; allowing it to be installed either inside or outside depending on your requirements. Suitable for installation worldwide the EasyGrid range addresses off grid power needs for both UK and International customers and can be installed by a competent local electrician.

How does it work?

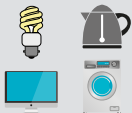
The unit connects to your solar array and also has a connection for a generator. Energy from the solar array is used to charge the batteries, where energy will be stored until needed. The array then tops up the batteries as the power is used. The system can also support additional loads to those listed when connected to a generator. In addition, if a generator is connected and the batteries are depleted and no solar power is available, the system will send a start signal to the generator to provide power.




Self Contained Off Grid Power System 3kW

What can you run with a EasyGrid 3000?

It is always difficult to define exactly what you can run from an off grid system – average demands can be easy to manage but peak loads can be more challenging to assess. The EasyGrid 3000 unit is designed to run (without a generator) the following loads:

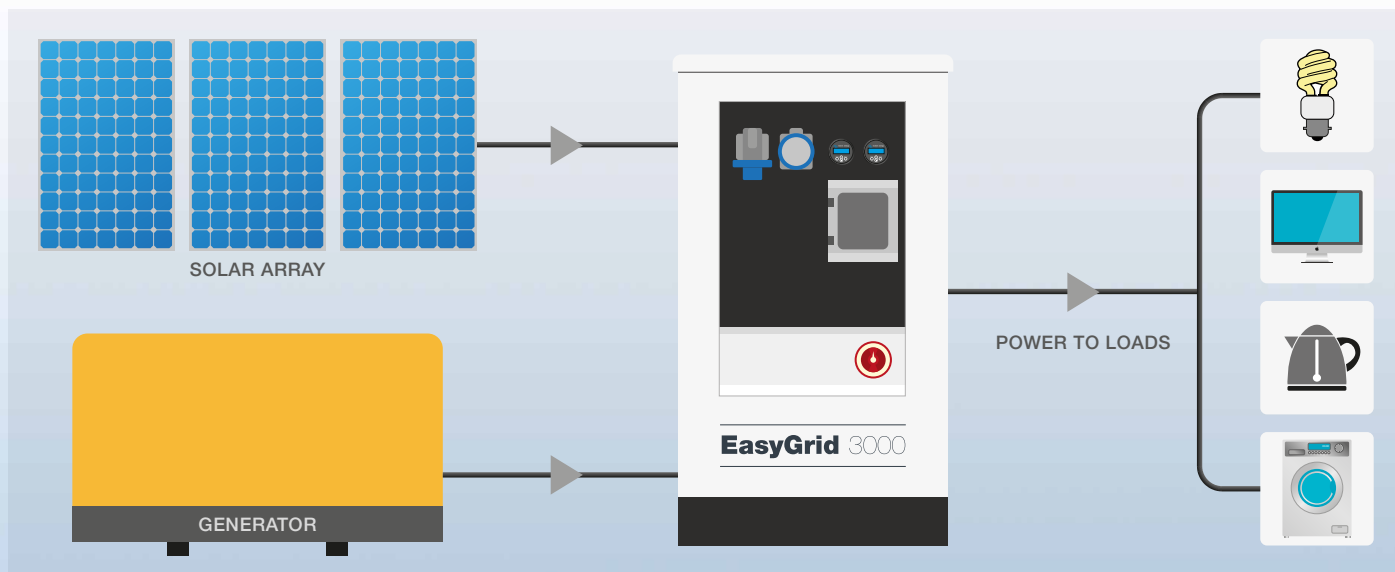


Residential Example
2 bedroom home with gas cooking and energy efficient appliances.



Business Example
Small office with computers, printing, kettle and lighting.

EasyGrid 3000 System



Connecting a Generator

If you are looking at connecting a generator to the EasyGrid 3000 we would recommend sizing of a 2kVA – 8 kVA which will allow you to run additional loads such as electric cooking. We are able to supply a generator with your EasyGrid if required. Please ask for prices and we can include this with your quotation.



Connecting a Solar Array to EasyGrid 3000

Sizing your solar array correctly is vital in getting the most effective renewable energy into your EasyGrid 3000. Below we explain the options available to you and how you can connect solar panels to optimise your power for peak loads.

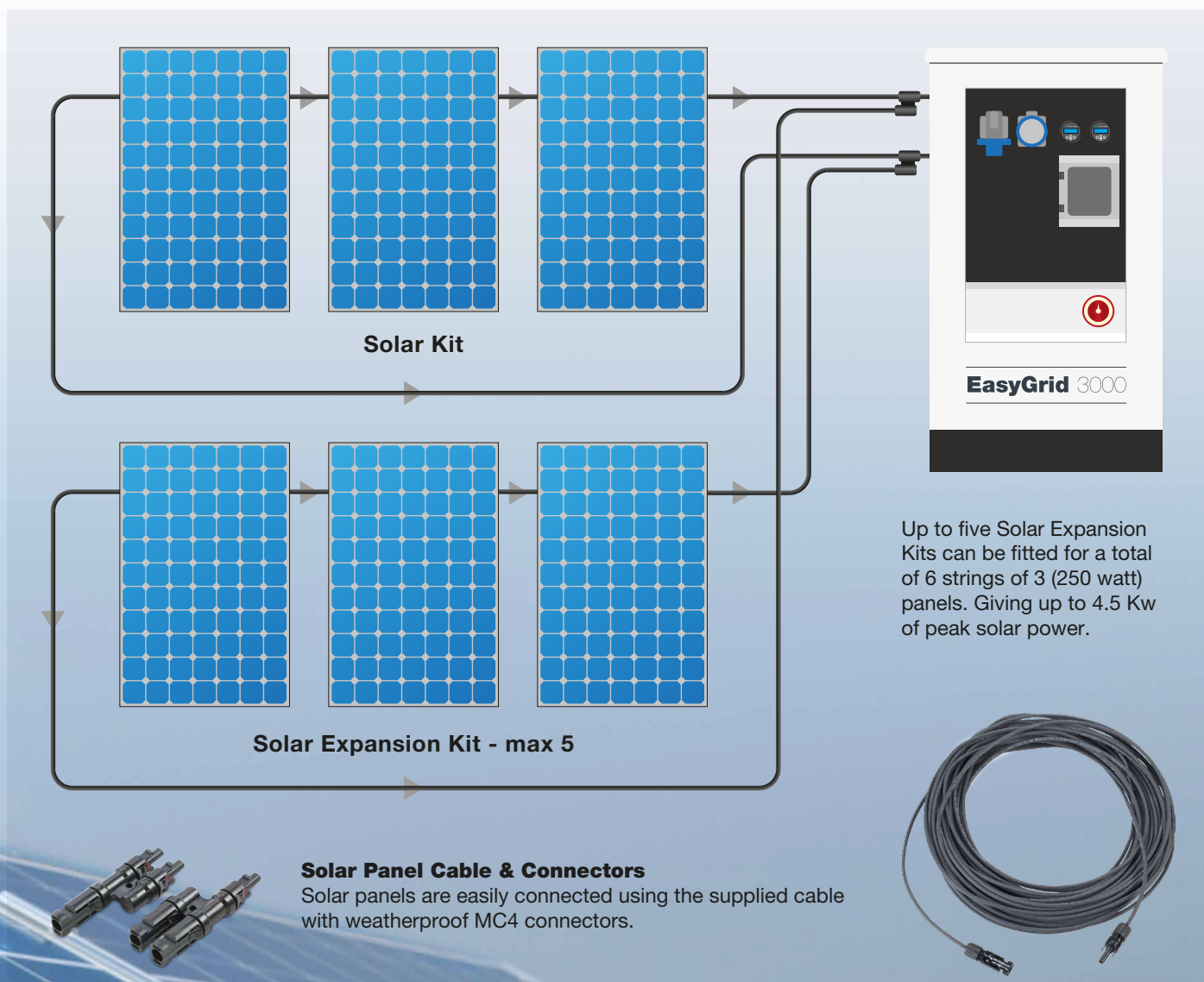
We are able to supply the necessary solar panel kit and expansion kits, mounting brackets, cables and connectors for your project. Please ask for prices and we can include this with your quotation.

SOLAR KIT – 1 String (3 Panels)

3 x 250 watt panels in series gives a maximum open circuit voltage of between 111.6 and 134.7 V.

SOLAR EXPANSION KIT – 1 String (3 Panels)

Additional three 250 watt solar panels with two weatherproof MC4 “Y” connectors.



Call 01634 290772 or email sales@energy-solutions.co.uk for your quotation

| INVERTER/CHARGER | |
|---------------------------------|--|
| Model | Victron MultiPlus 48V 3000VA |
| Transfer switch | 50 A |
| INVERTER | |
| Input voltage range | 38 – 63 V |
| Output | Output voltage: 230 VAC \pm 2% Frequency: 50 Hz \pm 0,1% (1) |
| Cont. output power at 25 °C (3) | 3000 VA / 2500 W |
| Cont. output power at 40 °C | 2200 W |
| Peak power | 6000 W |
| CHARGER | |
| AC Input | Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz Power factor: 1 |
| Output | 35 A |
| SOLAR CHARGE CONTROLLER | |
| Model | Victron BlueSolar Charger Controller 150/70A |
| Maximum output current | 70 A |
| Maximum PV power, 6a,b) | Suggested 5 Kw max. |
| Maximum PV open circuit voltage | 150 V |
| COMMON CHARACTERISTICS | |
| Operating temp. range | -20 to +50°C (fan assisted cooling) |
| Humidity (non condensing) | max 95% |
| BATTERIES | |
| 12 V 200 Ah | x 4 |
| Capacity | 9.6 Kwh (Usable 5.7 Kwh) |
| STEEL ENCLOSURE | |
| Dimensions | 680 mm x 870 mm x 1220 mm (WxDxH) |

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.

What's in the box:

- Victron MultiPlus 48V 3000VA
- Victron BlueSolar Charger Controller 150/70A
- Battery Monitor
- Battery Pack 4 x 200Ah
- DC inlet for Solar (MC4 connectors)
- AC inlet for Generator
- AC outlet for load supplies
- Circuit breaker protection

Installation, Warranty and Service

The EasyGrid series is designed to be a plug and play solution for off grid customers. They can be installed by a competent, local electrician. We have a YouTube guide to help them plus each unit is supplied with a straightforward installation guide.

The unit is covered by our own one year warranty, and the Victron components are covered with a 5 year limited warranty.

Also Available EasyGrid 1600, EasyGrid 5000, EasyGrid 10,000