



EasyGrid 10000

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 10000 enclosure is made from powder coated steel and is fully lockable; allowing it to be installed either outside or within an outbuilding, 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?

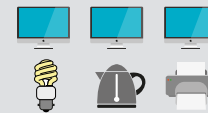
The unit connects to your solar array and also has a connection for a generator. Energy from the solar array is used to charge the batteries, where energy will be stored until needed. The array then tops up the batteries as the power is used. The system can also support additional loads to those listed 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.



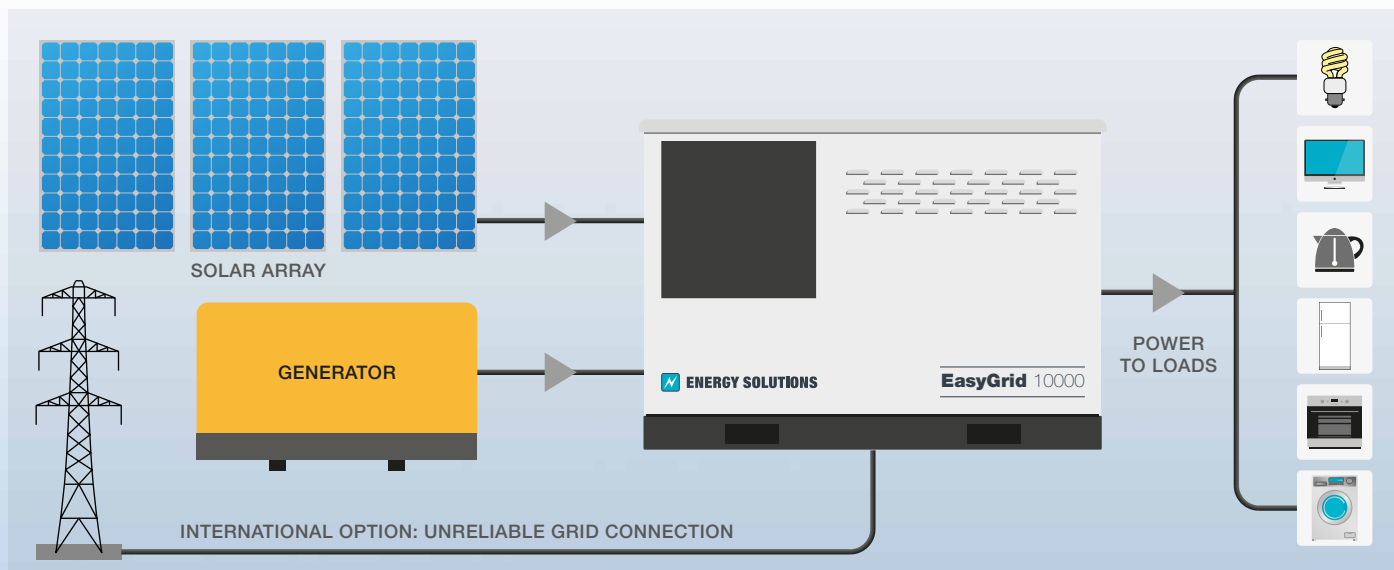
Self Contained Off Grid Power System 10kW

What can you run with a EasyGrid 10000?

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 10000 unit is designed to run (without a generator) the following loads:

	Residential Example 5 bedroom home with electric cooking & efficient appliances.		Business Example Large office and workshop with full facilities.
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EasyGrid 10000 System



Connecting a Generator

If you are looking at connecting a generator to the EasyGrid 10000 we would recommend sizing of a 17kVA – 45 kVA which will allow you to run additional loads. 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 to an Unreliable Grid

For our international customers we are able to add an additional connection point for connecting the unit to an unreliable local grid connection. This allows users to make use of grid power when it is available and then to automatically switch to the EasyGrid supply during power cuts. This additional option is viable if you are installing the unit in an area with frequent daily power outages and you require continuous power. Please ask us and we can include this option with your quotation.



Connecting a Solar Array to EasyGrid 10000

Sizing your solar array correctly is vital in getting the most effective renewable energy into your EasyGrid 10000. Below we explain the options available to you and how you can connect solar panels to optimise your power for peak loads.

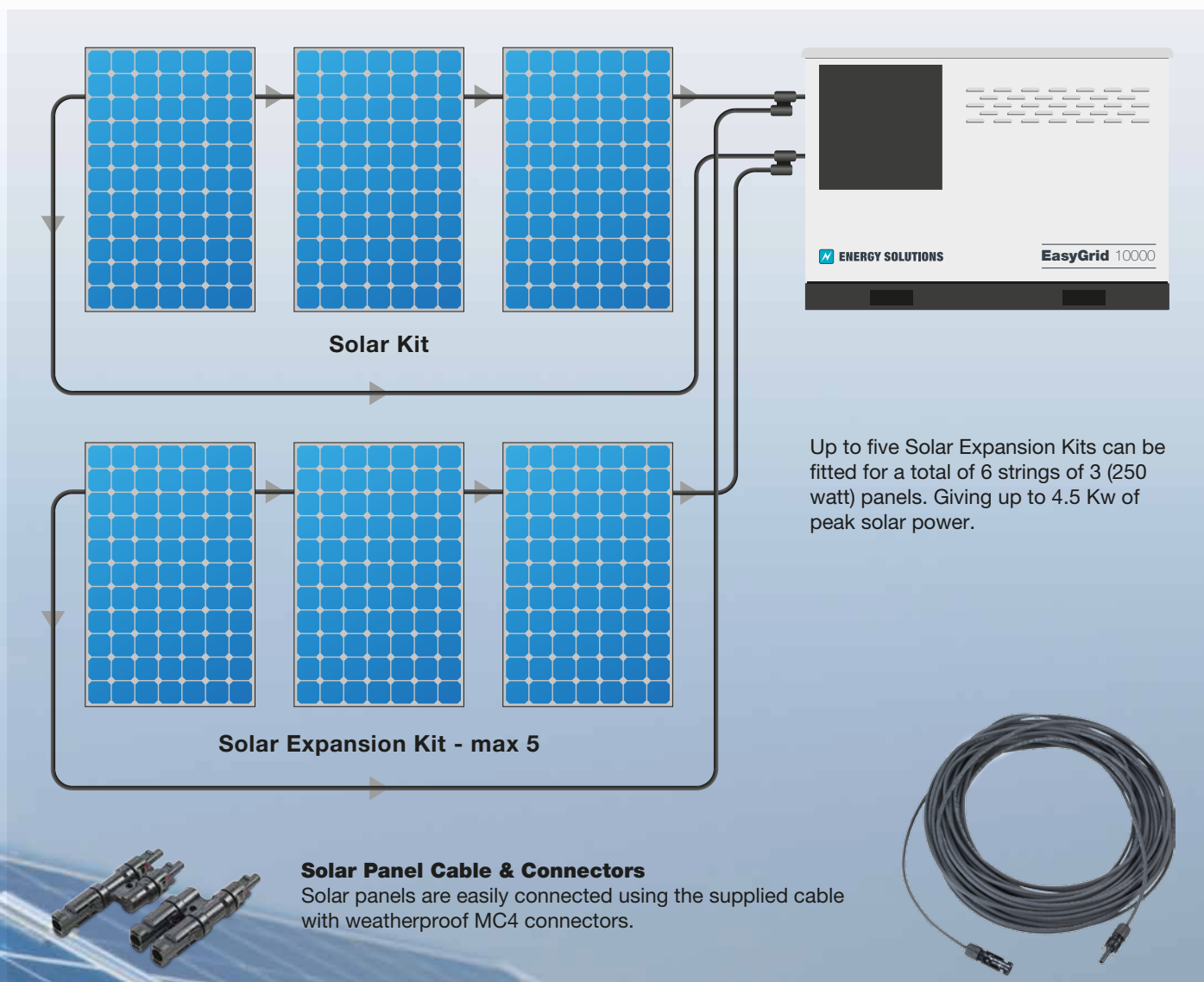
We are able to supply the necessary solar panel kit and expansion kits, mounting brackets, cables and connectors for your project. Please ask for prices and we can include this with your quotation.

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.



INVERTER/CHARGER	
Model	Victron Quattro 48V 10000VA
Transfer switch	100 A
INVERTER	
Input voltage range	38 – 66 V
Output	Output voltage: 230 VAC \pm 2% Frequency: 50 Hz \pm 0,1% (1)
Cont. output power at 25 °C (3)	10000 W
Cont. output power at 40 °C	4000 W
Peak power	10,000 W
CHARGER	
AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz Power factor: 1
Output	140 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	
2 V	x 24
Capacity	40 Kwh (Usable 21 Kwh)
STEEL ENCLOSURE	
Dimensions	1468 x 824 x 1104 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 Quattro 48V 10000VA
- Victron BlueSolar Charger Controller 150/70A
- Battery Monitor
- Battery Pack 24 x 2V 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 2000, EasyGrid 3000, EasyGrid 5000