

# THE SUN GENERATOR

PRODUCE & USE. DIRECTLY.



**Nordic Folkecenter**  
for Renewable Energy

## Sun Generator: Get the Power from the Sun!

Don't get tricked by the name! The sun generator does not generate sun... but electricity!

You might say that there is already a device that does that: a PV panel! You are completely right and we still need to use it to produce electricity.

### SO, WHAT IS THE INNOVATION?

A PV panel produces DC current, but most of the electrical tools and appliances work on AC current. There needs to be a conversion unit which "translates" DC into AC, and that is the task of the Sun Generator!

### HOW IS THAT DIFFERENT FORM AN INVERTER?

An inverter is designed with the same principle in mind, but it needs either an electrical grid or some batteries: in other words, it cannot operate alone. The Sun Generator can, and that is its strength! Not only: the Sun Generator can also run devices with higher voltage than stated...they will just run slower.

### USE THE SUN, NOT BATTERIES!

Did we mention it? The Sun Generator does not need to be connected to batteries, making it fully flexible: you just need a PV panel and the device you want to operate! The whole concept of the Sun Generator is to provide instantaneous power, which means it should be used when the sun is there. There are other alternatives to charge batteries...let's use the Sun Generator for those applications which are not covered!

### WHAT CAN THE SUN GENERATOR BE USED FOR?

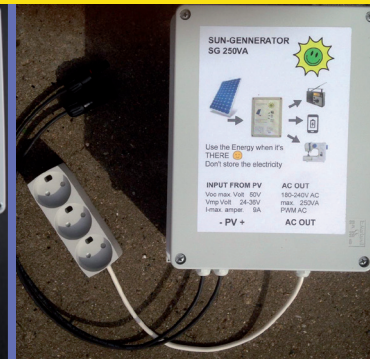
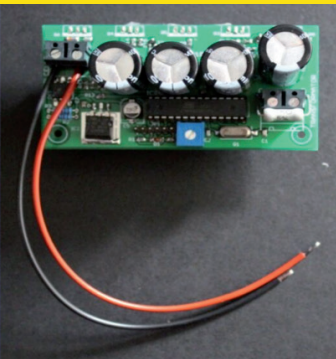
At the moment the available Sun Generator has a capacity of 250 W, but plans are to extend it up to 3-5 kW. Already with 250 W, applications are several: radios, equipment for barber shops, tailors, kiosks, irrigation, refrigeration and cooking are only some of the possible options. Can you add something to the list? Basically, any device with a power of 250 W can be operated by the Sun Generator!



### COOKING WITH THE SUN GENERATOR:

Food	Time
Vegetable soup	2 h
Rice	1 h
Lamb	1 h
Bread	1 h
Beans	75 min
Potatoes	45 min

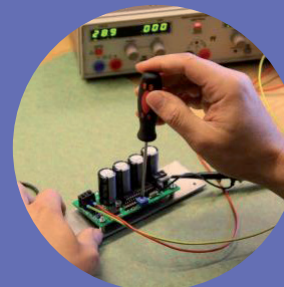
Healthy and safe cooking!



### DID YOU KNOW?

Batteries are sensible to heat! Most of them are designed to operate at 25°C and they will halve their lifetime every 8°C increase. It is easy to imagine that batteries placed in climates with 40°C+ will not last for long...

	Electrical Grid	Batteries	Sun Generator
Can be installed anywhere	No	Yes	Yes
Cheap solution	No	No	Yes
Long lasting	Yes	No	Yes
Sensible to heat	No	Yes	No
Polluting	No	Yes	No



### HOW TO GET ONE?

We can teach you how to build one! A customized workshop can be organized, during which all the needed knowledge related to the Sun Generator can be provided. We are also happy to adapt it to your needs and tailor it for the specific application you might have in mind. For more information, please scan the QR code.





*The Nordic Folkecenter  
for Renewable Energy  
is a Danish non-profit  
independent organisation  
working for a world running  
on renewables since 1983.*

Our ultimate long term goal is a complete replacement of fossil fuels and atomic power with renewable energies & energy savings while promoting the sustainability, resilience and development of local communities around the world. For this purpose, we have collaborated with local civil society organisations, research and education centres, companies, professionals and governmental authorities from all over the globe for decades.

Among others, we are an active and founding member of the World Wind Energy Association (WWEA), the European Association for Renewable Energy (EUROSOLAR), the European Renewable Energies Federation (EREF) and the International Network for Sustainable Energy (INFORSE). We are also the Danish coordinator of EUROSOLAR and the European Solar Prize.

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