

# Crank Box

by Ecosoft



## ***Crank Box, the new way to generate power***

### **The electric lighting system without a battery**

You are reading this well: the Crank Box is an electric lighting system without a battery. It is one of the first systems that uses a supercapacitor. A supercapacitor is an innovative component which you will find in green technological products more often in the near future. In this application the supercapacitor does what a battery cannot do: it charges in just 60 seconds. This system, developed for third world countries, is the perfect lighting solution for campers or boaters. It is great for a garden house, barn or stables. It is the best possible emergency lighting system because it uses no batteries which will deteriorate over time. Moreover it is a “green” solution. It can even charge your cell phone.

*Lighting system for camping,  
garden house and emergencies*

*Powerful and wide beam*

*Always keeps its charge capacity*

*Charge time 60 seconds, for one  
hour of lighting*

*Emergency cell phone charger*



## Made for developing countries

An estimated 1.6 billion people are not connected to the electricity grid, mostly in developing countries. For most of these people lighting fueled by kerosene or batteries is too expensive. The Crank Box was designed to become the least expensive way to bring lighting in the homes of the people involved. This is of major importance for home work, personal care and self development.

## Major advantages

The most obvious advantage of the Crank Box is that it requires no planning. There is always lighting. It requires no batteries or kerosene. Neither does it have to be placed in the sun for a long time with the risk of being stolen. The Crank Box will always work, also in emergencies. Because no battery is used, it will keep its capacity to store electricity over a period of many years. No other system can do that. Because of the long lifetime it is the solution with the lowest cost of ownership per hour.



## The role of Ecosoft

Ecosoft is developing products such as the Crank Box to improve the lives of people in developing countries by providing technology that can be produced at low cost. The success of cell phone stood model for this approach. If technology is adapted to the needs of developing countries it can become a major contribution to development.



## Green product

The Crank Box stands as a model for the business goal of Ecosoft. The Crank Box reduces CO2 emissions from burning kerosene in lamps or reduces pollution from discarded batteries. In this way we try to contribute a bit to a healthier world.



## To support the good cause

The Crank Box is sold in Europe to finance the activities of Ecosoft in Africa and the development of new products. By buying a Crank Box for home or holiday use you do not only buy a reliable product, but you also support the development of a family in a third world country.



## Energy in an emergency package

The major advantage of a Crank Box is that it can always be recharged in 60 seconds. In emergencies this is an essential feature. Batteries will lose their power when stored over months or years. Rechargeable batteries cannot even be charged after many years of storage. When stored for emergencies they may fail to operate when really needed. The Crank Box provides light and the ability to charge a cell phone in case of an emergency. It can be stored for many years without losing any capability.

## Garden house, stables, barn, sauna

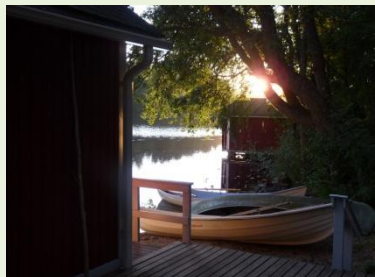
The Crank Box will perform well at all places where there is no electricity. Lighting is infrequently used in barns or garden houses. In these places the Crank Box is a much easier solution than anything based on batteries. Even when the capacitor is empty the Crank Box will readily provide light at maximum strength – already after a few turns of the handle.

## For camping or boating

The Crank Box is just a great camping light. Of course it is just as useful on a sailboat, while fishing or in a caravan. Because it does not require batteries, you can be certain that it will work. The supercapacitor is simply super reliable. Really rewarding for campers is to know that their lighting solution is a green solution. It even allows them to charge their cell phone with muscle power.

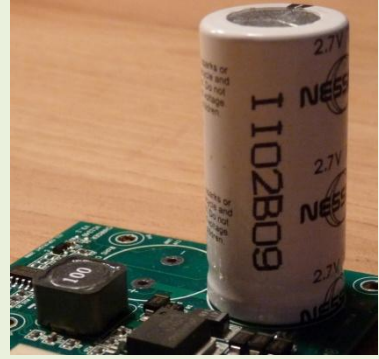
## Emergency cell phone charger

A unique advantage of the capacitor in the Crank Box is that it makes it possible to charge a cell phone with hand operation. A battery based hand crank device will have serious problems doing this because a battery is not so suitable for quick charging and discharging. Therefore the Crank Box can even be used on a daily basis to charge your cell phone. During and after one minute hand operation the cell phone will charge for one to several minutes depending on type. This means that with one particular example cell phone we can charge 15 minutes by operating the handle five times for one minute which keeps it alive for a day. This is of great value when you have no mains power or car available.



## Way ahead of comparable products

The Crank Box uses innovative electronic parts and techniques to provide electricity at even the remotest spot. The secret behind it is that a capacitor can be charged and discharged an unlimited number of times. The latest integrated circuits can convert the input and output efficiently so little energy is lost. Although it is just a lamp, it still is 21st century technology.



## To know more or to place an order?

The Crank Box can be tried and bought at several outdoor shops and garden centres. It can also be ordered online. For more information or to place an order, please check [www.ecosoft.info](http://www.ecosoft.info).

Ecosoft is winner of the Doe'Z Award 2009

Ecosoft is participant of the Daey Ouwens Fund for renewable energy in developing countries of the Netherlands Ministry of Foreign Affairs



### **Ecosoft BV**

Hitchcockstrook 34

2726 VN Zoetermeer The Netherlands

tel. +31 79 3460616

fax +31 79 3460612

[info@ecosoft.nl](mailto:info@ecosoft.nl)

[www.ecosoft.info](http://www.ecosoft.info)