

Frequently asked questions for the solar lantern SOLUX-LED-50

- 1. Is there any risk to use a solar lantern?**

No, there is no risk using this light. But you should avoid direct eye contact with the beam of the LED, this could hurt your retina similar looking straight forward into the bright sun.
- 2. Why should I replace the kerosene lantern with a solar lantern?**

The solar lantern makes far more light (3-6 times more) , there is no risk of fire, no risk for the health and after half a year you spar the expenses for kerosene. Solar energy is an environment friendly solution which is highly sustainable.
- 3. How long will the Led50 give light in the evening?**

The LED-50 will give 4 to 5 hours bright light. Afterwards light will decrease slowly for many hours. At the reduced level you will have 6 to 8 hours light, decreasing afterwards.
- 4. May I use the lantern with dimmed light for the whole night?**

Yes you can switch the LED-50 (version 2.0) to dim light with 15% light output, which is sufficient for basic orientation at night. At this level the light will last far more then one night.
- 5. Do we need batteries?**

There is a rechargeable NiMH battery – pack in the lantern which is recharged with the solar module. You must not buy batteries to use the lantern.
- 6. How long must I charge it with the module?**

At full sunshine 4-5 hours are sufficient to have 4 to 5 hours light in the evening. To geht the batteries completely full you may charge it 8 hours.
- 7. Does the module charge the lantern at a cloudy day?**

Yes even at cloudy days the module will produce electricity but not so quick as at a sunny day. If the light level is low in the evening please use the lantern at a reduced level.
- 8. May I charge the lantern with a plug charger?**

Yes SOLUX does offer a suitable plug charger to be used at normal electrical grid. Ask our local agent for the right plug charger. Do not use other products that could damage your batteries.
- 9. Do I need a new bulb after some years?**

The small LED is designed for a live span of more the ten years. Under normal conditions you never will have to change it.
- 10. What is the difference to a torch?**

A torch is designed as spot light with batteries, which must be renewed after short time but the Led-50 is designed as room light to be charged with a solar module without changing the batteries periodically.
- 11. How can I know that the lantern is charging.**

When you connect the module to the lantern you will see the red LED is lit on if the module is opposed to the bright sun. That is an indication that the electricity is produced.

12. How can I know that the lantern is completely charged ?

There is now direct indication that the batteries are full. Normally the batterie will be full after two days charging. The brightness of the LED light is an indication how far the batteries are filled.

13. May I expose the module to rain?

Yes the module may be exposed to rain but not the lantern. Protect the lantern against heavy water ingress.

14. Does the module operate in the shade ?

No the module must be positioned into the bright sun to produce electricity

15. What is the difference to a cheap camping lanterns?

Camping lanterns are designed for few operating hours during one year. They use cheap lead acid batteries which must be renewed often. Many camping lantern may only be charged with car adapter or plug charger.

16. When must I replace the rechargeable batteries?

Under normal conditions the rechargeable batteries should last several years. Afterwards you have to buy new ones at your Solar4Ghana service station.

17. Who will repair the lantern when there is a fault?

Please bring the lantern to the next Solar4Ghana service station. They are prepared for maintenance and repair.

18. My kerosene lantern costs me only some USD while your LED-50 costs 40 USD. Why should I pay so much money?

For a kerosene lantern you need 1.50 USD for kerosene each week while the solar lantern does not produce any costs after it is bought. During half a year you have paid 45 USD for kerosene what is sufficient to buy a solar lantern.

19. What is a micro credit ?

A micro credit is a small loan which is given to a group of people who have decided to repay this loan in small portions as a reliable group. By this way the investment in solar lanterns are affordable to people with low income

20. Where can I get a micro credit ?

There are several micro credit organisations in Ghana. Please ask your local representative of the project *One Child One Solarlight*.

21. What is *One Child One Solarlight*?

One Child One Solarlight is a Ghanaian project to introduce solar lanterns to school children and their families as replacement of kerosene lanterns. The project is managed by the company Solar4Ghana Ltd. in Accra. The project will have local representatives in rural areas.

22. Where can I buy a SOLUX-LED-50 lantern?

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