

USER MANUAL

for:

- Light**S**
- MobileAdapter**S**
- SolarPanel**S**
- PowerSupply**S**
- CarAdapter**S**



Dear Customer,

in your hand, you are holding Light**S**, a sustainable Power and Light solution developed by EnC Energy & Comfort.

Light**S** stands for:

- **INDEPENDENT**, grid-free electricity available everywhere
- **SUSTAINABLE** – zero emissions, no toxic fumes
- **ROBUST** – drop proof, heat proof, water proof
- **HIGH QUALITY** – German engineering and quality standard, with long life time

In the unlikely case of defects, Light**S** is based on modules which can be repaired or replaced separately. Please find your local repair centre on energycomfort.org

We wish you much pleasure with your device.

Best regards,
EnC Energy & Comfort GmbH

SAFETY NOTE (please read carefully)



The lamp must only be charged with the EnC power unit and/or EnC solar module and/or EnC car adapter. No other power unit or solar module or car adapter must be used. Using other power units may cause damage including causing a potential fire!



Do not burn the lamp or open the storage battery. Any contact with gases or liquids from the storage battery must be avoided at all costs!



Accessories of the lamp contain small parts. Keep away from small children!



Do not look directly into the light of the LED.



Make sure that this product is disposed of via the appropriate return and collection systems available.



1. General Information

Please take note of the following general information:



- Please handle the lamp with care, do not open it without expert supervision and do not drop it.
- Do not immerse the lamp into any liquids, protect it from the presence of water and other liquids, including vapors.
- To maintain highest lifetime of the battery it is useful to fully charge the battery at least once every six month.

- Do not expose it to sunlight for a long period of time and protect it from extremely high or low temperatures. Very high and very low temperatures have an adverse effect on the useful life and the capacity of the rechargeable battery. Where possible, please store the lamp at a cool location.
- In general, the crank has a stable construction, but should not be loaded with any excessive weight.
- If possible, protect the lamp against dust, in particular fine dusts, metal splinters and sand.
- It should be cleaned with a damp cloth. No solvent agent or similar must be used for cleaning.

2. Overview of the lamp

Lamp parts:

- a. Hook
- b. Crank
- c. Lamp housing
- d. Socket for main charging (optional: solar charging and car adapter)
- e. Socket for mobile phone (and charging of USB devices)
- f. Shift ring
- g. Lampshade



Fig. 1a: Lamp

Optional Accessories:

- h. Charger cable for mobile phone (optional USB)
- i. Mobile phone adapter
- j. Power supply unit
- k. Solar panel
- l. Car Adapter



Fig. 1b: Accessories

Fig. 2: Removal of the hook



3. Using the lamp function

The lamp may be used hanging or in two standing positions. To hang the lamp, remove the integrated hook **a** (see Fig.2). The hanging and standing positions are shown in Fig. 3.

Fig. 3: Lamp hanging and in standing positions



4. Switching functions

By holding the lamp housing **c** with one hand and turning the shift ring **f**, the lamp can be set into three different switch positions:



The lamp can be charged while being switched on or switched off with the crank (cf. Chapter 5), a power unit (optional) a solar panel (optional) or a car adapter (optional).

5. Charging the lamp with a crank

To charge the lamp by with the crank, crank **b** has to be removed from the lamp housing **c** (cf. Fig. 4). Now, the crank may be turned at any speed and in any direction by hand. The direction of rotation may be changed at any time. Three (3) minutes of turning the crank at a speed of 120 revolutions per minute result in approx. 25 min. of bright light.

6. Charging the lamp by means of a power unit (optional)

If required, turn crank **b** until socket is free for charging/ solar charging/car battery charging (cf. Fig.5). Connect the plug of the power unit **j** (cf. Fig. 6) into the socket.

Plug power unit **j** into a wall socket. The power unit may be operated at a voltage of between 110 V and 230 V and at a frequency of between 50Hz and 60Hz.

Fig. 4: Crank



Fig. 5: Charging socket for External power supply



Fig. 6: Power unit plugged into lamp



The lamp may also be used whilst being charged. The charging process may be interrupted at any time and the lamp may again be used. During the charging process, the lamp emits a weak light to control charging. This is the charging indication and shows you that the lamp is actually being charged. The charging indication automatically dies down, when the battery is fully charged.

7. Charging the lamp by means of a solar panel (optional)

If required, turn Crank **c** until the socket is free for charging (cf. Fig. 5). Connect the plug of the solar panel **k** into the socket (cf. Fig. 7). The lamp may also be used whilst charging (e.g. solar panel outside the room in the sun, lamp inside the room). The charging process may be interrupted at any time and the lamp can again be used. It is important that the solar panel is fully exposed to sunlight when possible and directed towards the sun, as even partial shading will considerably reduce the performance of the panel.

Fig. 7: Lamp connected solar panel



Fig. 8: Car adapter plugged into lamp



8. Charging the lamp by means of a car adapter (optional)

Where required, turn the Crank **c** until socket is free for charging (cf. Fig. 5). Connect the plug of the car adapter **l** into the socket (cf. Fig 8). The car adapter then has to be plugged into the cigarette lighter of the car (12V) or truck (24V). The charging process can be interrupted at any time and the lamp may again be used. The lamp may be used while charging.

9. Charging of a mobile phone (optional)

Completely switch off the mobile phone. Set the switch position of the shift ring **f** to charging (cf. Chapter 4 and Fig. 9). Plug the charger cable **h** for the mobile phone into the charging socket. Where required, put the adaptor **l** on the charger cable for the mobile phone and connect the mobile phone to the adaptor/the cable (cf. Fig. 10). The lamp will charge the mobile phone automatically using energy of the internal battery of the lamp. If there is not enough energy in the lamp battery the charging process will automatically be terminated.

Fig. 9: Mobile phone charging socket



Fig. 10: Mobile phone plugged into lamp



Thereafter the lamp battery still contains energy for light some time. The lamp can be charged by solar panel/power supply/car adapter at the same time as you charge your mobile phone.

10. CE conformity declaration, technical details and warranty

See separate page.

11. Contact



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