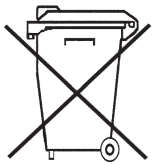
Operating Instructions
Solar Lamp Super Spot pro Duo Color

GB

Customer support:
If you have problems or questions regarding this product, simply contact us!
esotec GmbH, Industriegebiet Weberschlag 9, D-92729 Weiherhammer
Internet: www.esotec.de
By phone: +49 9605-92206-0
By e-mail for ordering spare parts: **ersatzteil@esotec.de**
By e-mail for questions about the product: **technik@esotec.de**

Battery take-back
- Batteries must not be discarded into domestic waste.
- The consumer is legally required to return batteries after use, e.g. to public collecting centers or to battery distributors.
- Contaminant-containing batteries are labeled with the sign “crossed-out trashcan“ and one of the chemical symbols. Used batteries should be disposed environmentally friendly and should not be discarded into domestic waste. Your dealer is legally required to take back old batteries.



LiFePO4

Rechargeable battery notes
- Rechargeable batteries should not be played with by children. Never leave rechargeable batteries lying around; they could be swallowed by children or pets.
- Rechargeable batteries must never be short-circuited, disassembled or thrown into fire. This leads to a danger of explosion!
- Leaking or damaged rechargeable batteries can cause chemical burns when they come into contact with skin. For this reason, please make use of suitable protective gloves.
- Rechargeable batteries should only be replaced by structurally identical rechargeable batteries from the same manufacturer. Normal batteries must not be used since these are not rechargeable.
- Make sure the rechargeable batteries are inserted with the correct polarity.
- For long periods of time of non-use (for example, storage), remove the inserted rechargeable batteries to avoid damages via the leaking rechargeable batteries.

Disposal:
Dear customer,
please cooperate in avoiding waste. When you intend to dispose of the product in future, please consider that it contains valuable raw materials suited for recycling. Therefore, do not dispose it of with domestic waste but bring it to a collection point for the recycling of waste electrical and electronic equipment.

Thank you very much for your cooperation!

1. Introduction
Dear customer, we thank you for purchasing the Solar Globelight.
With this Solar Light you have purchased a product that complies with the latest and most up-to-date technology.

This product complies with the European and National Standards. The relevant certificates of conformity are deposited with the manufacturer.
To preserve this standard and in order to maintain safety you must adhere to the use instructions!

2. Security Instructions
In the event of any problems arising or damage occurring from not following these instructions, the warranty is deemed cancelled. The manufacturer will not be held responsible for any claims or damages arising from the misuse of this product.
- For safety reasons and in order to maintain standards (CE) you are prohibited from altering or changing any component in the product.
- Please follow the instructions very carefully.
- For commercial applications due care and attention must be paid to the Health and Safety Standards in your jurisdiction.

3. Function and intended Use

The solar spot is designed for all season outdoor use. It consists of a high-quality aluminum design and thus ensures a long-term function for many years.

The solar module has to be positioned facing the sun. For the optimal positioning, it is possible to mount the solar module onto the lamp in two different variants. A south, east or west side is recommended for the mounting of the module. Shadowy north sides are not appropriate for solar lamps.

The integrated rechargeable battery is charged by the solar module installed upper side of the solar module. The solar module consists of high-quality Kyocera solar cells and is laminated behind glass absolutely weatherproof. This is the same production technology which is also used for large powerful solar modules.

This lamp is equipped with an automatic energy management. This specifically developed function ensures the optimal utilization of the stored energy in the rechargeable battery throughout the entire year. The lamp is automatically switched on at dusk. The luminous power is automatically reduced to 70% after three hours. The luminous power is reduced to 50% after another three ours. The lamp is automatically switched off after another two hours. That means, that the lamp is usually lit the whole night in the summer half-year and that a significant optimization of the duration of the light ON time can be achieved in the winter half-year.

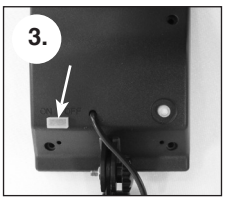
4 powerful Nichia light emitting diodes (LEDs) are used as light source. Those LEDs guarantee a high luminosity with a low current consumption and a lifetime of more than 50000 hours.
The light color can be selected between warm white or cold white by means of a switch.

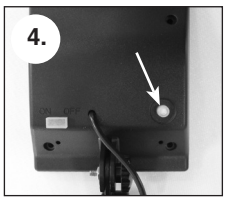
Note: During longer periods with insufficient insolation, the accumulator is charged insufficiently via the sunlight. **However, that does not mean that the solar lamp is defective**. Please wait for the next sunny days and the light will work accordingly.

The rechargeable battery has to be exchanged every 2 years on average!

4. Putting into Operation
1. Please carefully take all parts out of the package.
2. Mount the solar module onto the spot by means of the screw and nut. The module can be mounted in two different variants depending on the place of installation. Thus, you are able to optimally adjust the module to the sun depending on the local circumstances (illustration 1).

3. Now mount the aluminum ground spike onto the spot by means of the assembly material (illustration 2).
4. Move the switch at the bottom side of the solar module into the position „ON“ (illustration 3).
5. The pressure switch on the other side of the solar module is used to select between the light colors cold white or warm white (illustration 4).





6. Now firmly insert the spot with the ground spike into the ground. Adjust the beam according to the local circumstances and tighten the screw on the ground spike.
7. Now, adjust the solar module free from shadows facing the sun and also tighten the screw on the solar module.

The spot is now ready for use!

Note: The duration of illumination strongly depends on the intensity and duration of the solar radiation during the day. During the winter months please generally expect a shorter light ON time. If the lamp should not shine on the first evening, please wait for a sunny day.

5. Automatic Energy Management

This specifically developed function ensures the optimal utilization of the stored energy in the rechargeable battery.

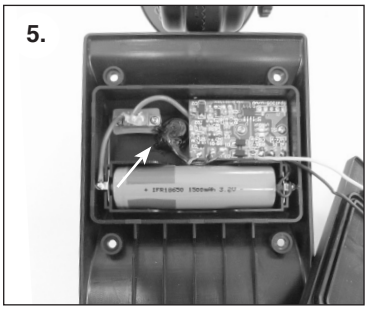
The lamp is automatically switched on at dusk. The luminous power is automatically reduced to 70% after three hours. The luminous power is reduced to 50% after another three ours. The lamp is automatically switched off after another two hours. That means, that the lamp is usually lit the whole night in the summer half-year and that a significant optimization of the duration of the light ON time can be achieved in the winter half-year.

6. Exchange of the rechargeable Battery

On average, the battery in the light globe has to be exchanged by a new and identical in construction battery every two years. Used here is a Li-ion battery with 3.2 V/ 1500 mAh. A replacement battery is available from your retailer or the manufacturer under **www.esotec.de**

Proceed as follows when exchanging the battery:

1. Move the switch at the bottom side of the solar module into the position (OFF).
2. Unscrew the 4 screws at the bottom side of the solar module with an appropriate screwdriver and carefully remove the lid.
3. Take out the used battery and replace it by a new, identical in construction battery (illustration 5). Pay attention to the correct polarity of the battery when inserting it!
4. Now reattach the lid and screw the 4 screws back in with a suitable screwdriver.
5. Move the switch at the bottom side of the solar module into the position (ON). **The spot is ready for use again**!



7. Malfunctions

1. The lamp is getting darker and darker at night!

Remedy: The lamp is equipped with an energy management. See item 5.

2. The globe is not activated at darkness!

Remedy: The battery in the lamp has reached the end of its lifetime? The batteries shall usually be exchanged by new and identical in construction batteries every two years!

Remedy: Is the switch at the bottom side of the solar module in position „ON“?

Remedy: It the solar module illuminated by **extraneous light** (e.g. spot)? **Position the lamp at a darker place**.

8. Technical Data

- Solar module: 1.8 Wp crystalline
- Illuminants: 2 LEDs (2 x warm white; 2 x cold white)
- Light color: warm white: 2800 K, cold white: 6500 K
- Luminous intensity warm white: The first 3 hours 50 lm, then 3 h 37 lm, then 2 h 26 lm.
- Luminous intensity cold white: The first 3 hours 65 lm, then 3 h 51 lm, then 2 h 34 lm.
- Light ON time: max. 8 h
- Replacement battery: LiFePO4 3,2 V/ 1500 mAh (type 18650) Spare part art.-no.: 901024 (www.esotec.de)
- Type of protection: IP 54
- Protection class: III

All spare parts are available under www.esotec.de