

Function:

With this very high-quality solar light unit with LiFePO4 technology, you can set up your own solar lights such as solar garden lights, solar house number lights, bird house lights, solar accent lighting and much more. The "LongLife" solar lighting unit provides the high-level solar technology the user decides how they would like to use it.

During the development of this set, the focus was not only on durability but also on the use of the highest-quality individual components. The powerful solar panel has a laminated surface and is therefore optimally protected against environmental factors. The LiFePO4 battery displays extreme cycle stability and is designed for a long service life of over 3000 charge and discharge cycles. The control board reliably disconnects the the LED from the battery in the event of a deep discharge and therefore protects the entire system.

Since all components are already pre-assembled, even a amateur can set up the circuit in no time at all. Simply plug in the three polarised plugs and the solar light unit is ready for use.

As soon as dusk falls, the "LongLife" solar light unit automatically switches on the LED and, depending on the charge level of the battery, it stays on all night. When the sun rises in the morning, the LED is switched off and the battery begins to charge the solar module again. The cold white LED provides selective accent lighting and can optionally be replaced by a warm white LED included in the scope of delivery. Minor soldering work is required for this.

General:

The "LongLife" solar light unit's solar module requires a sunny location so that the battery can be charged by the solar panel. Make sure that the solar panel is facing the sun. Locations such as window ledges on the south side, covered balconies, terraces and all other sunny locations are suitable. The battery can also be charged with artificial light. Halogen lamps are particularly suitable for this purpose. Neon tubes and energy-saving lamps, on the other hand, are not suitable.

Start-up:

Before using the solar light unit for the first time or if the battery is discharged due to poor lighting conditions, the "LongLife" solar light unit must be fully charged. To do this, place the solar module in the sun and set the switch to the "OFF" position. Now allow the charging electronics to charge completely for at least two days in the sun. After that, the charging electronics are ready for use again.

*You can recognise the *Off position by the fact that the LED does not light up even though the module is darkened. Replacement of the battery or replacement battery (type 3.2 V, 600mAh, LiFePO4 with JST connector) available at www.sol-expert-group.de.

Technical data

Battery: LiFePO4 with 600 mAh at 3.2 volts; cycles: > 3000

Solar panel: monocrystalline technology with charging current of up to 75 mA, laminated weatherproof surface, LED: white with approx. 5000-6000K, 17 mA / second LED (warm white) included in delivery.

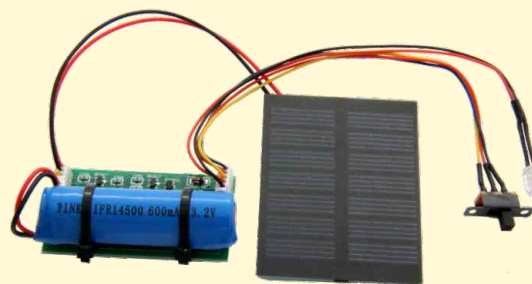
Assembly instructions:

Insert the connector of the battery into the appropriate socket and then, if desired, fix the battery to the board with the 2 cable ties. Then connect the plug of the solar cell and also the plug of the switch and the LED. Switch on the unit with the switch.

Changing the LED from cool white to warm white:

Cut the cables leading to the cool white LED and solder or screw on the warm white LED with a luster terminal. If the LED does not light up afterwards, the polarity of the LED must be changed. To do this, unsolder or unscrew the LED and reattach the two cables with the polarity reversed.

Solar Light Unit "LongLife" - a reliable light unit for many years of use



Parts list

Platine	52 x 29 mm, fully assembled
Battery	600 mAh / 3.2 Volt with connector
Solar panel	75 mAh @ 3.5 Volt with connector, size: 60 x 45 mm
LED	5 mm cool white 5000-6000K already mounted on the connector 5 mm warm white 3000K to mount
Switch	already mounted on the connector
Battery mounting	2 x cable ties
Connection type	protected against polarity reversal