



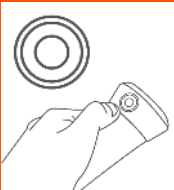



## ECO Pico Brightness Modes

	Mode	Luminance	Runtime	Power Level
	Light Mode 1	10 lm	60 h*	press x 1
	Light Mode 2	88 lm	10 h*	press x 2
	Light Mode 3	200 lm	5 h*	press x 3

 Turn off: press x4 or press and hold for one second to turn off from any setting
 

Hands-free option (loop lanyard through hole)



\*Runtime based on fully charged battery

## Additional Power

The outlets can be turned on by pressing the power button. They switch off automatically once the system is not in use.



Additional light not included

## Technical Data

<b>Light Output*</b>	200 lm / 5 hrs; 88 lm / 10 hrs; 16 lm / 60 hrs
<b>Battery</b>	3200 mAh, 3.25 V Lithium-Iron-Phosphate (LiFePO4)
<b>Solar Panel</b>	2.5 Wp poly crystalline silicon panel with 6m cord
<b>Outlets</b>	1 USB outlet for phone charging and 1 outlet for additional appliances like lamp or radio
<b>Charge Controller</b>	Overcharge, deep discharge, & over current protection
<b>Battery Indicator</b>	6-stage battery charge indication
<b>Low Power Mode</b>	Automatically switches the ECO Pico to low power mode, when battery runs low, allowing 1-2 additional hours of lighting
<b>Pollution Degree</b>	4
<b>Max. Altitude</b>	4000 m above sea level
<b>Weight &amp; Dimensions</b>	0.17 kg / 0.38 lb, 13.5 x 6.5 cm/ 5.32 x 2.6 in
<b>Ingress Protection</b>	IP54
<b>Ambient Temp.</b>	0-50 °C

\*Runtime based on fully charged battery

## Warranty

This product comes with a 2 year warranty (electronics and battery). The Phocos warranty is valid against defects in material and workmanship for the specific product warranty period. It is not valid against defects resulting from, but not limited to:

- Misuse and/or abuse, neglect or accident
- Exceeding the unit's design limits
- Improper installation, including but not limited to, improper environmental protection and improper hook-up
- Acts of God, including lightning, floods, earthquakes, fire and high winds
- Damage in handling, including damage encountered during shipment

The warranty becomes invalid if the device is used other than intended by the manufacturer. The warranty is also void if repairs are performed by an unauthorized or an untrained person.

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ECO Pico

User Manual



Engineered  
in Germany

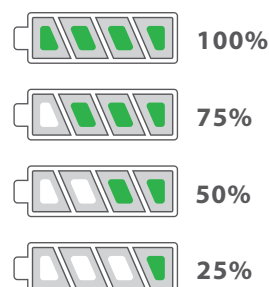
RoHS

CE

The ECO Pico is a durable and compact solar torch flashlight, with three levels of brightness powered by a long lasting LiFePO4 battery. It's strong enough to double as a mini solar home system that can power a lamp, mobile phone or radio using the load outlet or the USB port. With an easy, hands-free option this product is a perfect solution for multiple applications.

## Battery State of Charge

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**To check the battery state of charge:**

1. Turn the ECO Pico off
2. Press and hold the power button
3. State of charge will be displayed



**Energy Saving Mode**

Light will be available for 1-2 more hours. All outlets will be switched off and only Light Mode 1 can be turned on.



**Battery Empty**

When LED blinks red, recharge the ECO Pico.

## Charging Status

Charge by plugging the solar panel into the load output on the ECO Pico.



ON



OFF



**System Error**

If an error occurs, all LED's will turn on. Please disconnect all loads and restart the ECO Pico.

**Restart** the ECO Pico by pressing the power button for **8 seconds**.

## Safety Instructions/Expert Tips:

- Place solar panel in direct sunlight (best tilt) for maximum energy production. Charge as needed avoiding unnecessary sun exposure, for longest battery life.
- Do not place the lamp in direct sunlight for prolonged periods of time and avoid exposure to temperatures above 50°C. Avoid charging the lamp below 0°C and do not charge the lamp below -10°C to avoid damaging the integrated battery.
- Keep solar panel away from fire (ECO Pico is not fireproof)
- Warranty is void if unauthorized people perform repairs, or if the unit is opened
- Caution--Product is not a toy and was not developed for children's use
- If the cable is damaged, repair or replace the cable
- Only use the panel provided in the kit to charge the ECO Pico. Other solar panels may damage the system and will result in a voided warranty.
- The ECO Pico unit should not be exposed to liquids

## Maintenance

- Use water and/or soft cloth to clean the solar panel when dusty, to ensure best performance. Cleaning is recommended only when the panel has not been in the sun and is cool to the touch. Never put cold water on a solar panel that is warm or hot, as that could result in broken glass.
- Manufacturer recommends the ECO Pico is charged once every 30 days when not in regular use for best battery performance
- Keep the ECO Pico unit clean



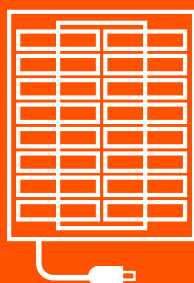
## ECO Pico

### Portable Solar Lamp and Turnkey System

#### Contents:



ECO Pico  
(flashlight/torch)



Solar Panel



Lanyard



USB Cable



Designed for rural electrification and recreational use



ECO Pico

User Manual

## Manual Translations Available at [www.phocos.com](http://www.phocos.com)

German - Betriebsanleitung  
English - User Manual  
French - Manuel de l'utilisateur  
Spanish - Manual del Usuario  
Brazilian Portuguese - Manual do Usuário

## Recycling Information

All ECO Pico components used for manufacturing and packaging are recyclable. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, please visit the following page: [http://ec.europa.eu/commission/index\\_en](http://ec.europa.eu/commission/index_en)



This manual is an integral part of the product. It must be adhered to and stored for future reference.

Specifications are subject to change without notice  
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