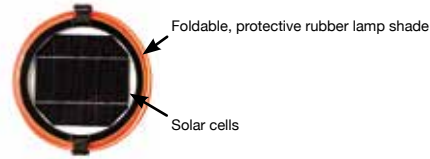
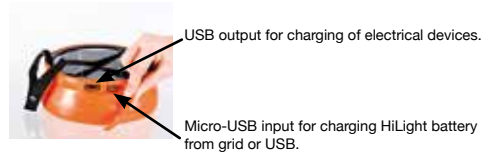
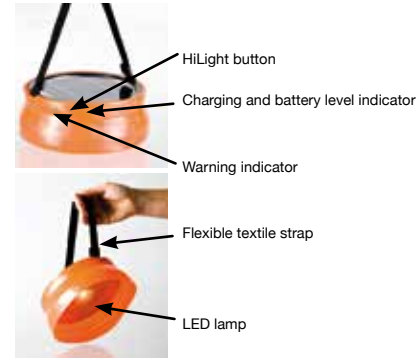


## HiNation® HiLight™

Rugged products for portable energy  
**USER GUIDE**

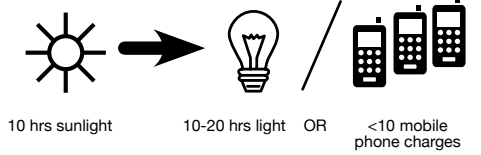


## FEATURES



HiNation® HiLight™ A rugged, portable solar cell solution providing:

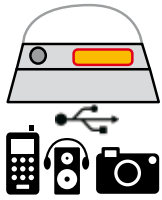
- bright and safe light, and
- charger for mobile phones incl. Blackberry and iPhone, iPad, digital cameras, GPS, MP3, etc.



## CONTACT

Email [info@hination.com](mailto:info@hination.com)  
Phone +46(0)707-949280

[www.hination.com](http://www.hination.com) – Outdoor users  
[www.hination.org](http://www.hination.org) – Emerging markets



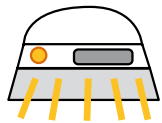
### GETTING STARTED

#### To charge your device from HiLight

- Connect your device to HiLight with a USB-cable.
- Push and hold HiLight button for 1 sec. to start charging (green LEDs light up).
- Steady green LEDs: HiLight is charging your device.
- Disconnect your device when fully charged or when HiLight battery is empty (green LEDs go out) to protect the battery.
- You can charge your device while HiLight charges from the sun.

#### To use lamp, push the HiLight button:

For normal light, up to 20 hours – push once.  
For stronger light, up to 10 hours – push again.  
To turn lamp off – push a third time.



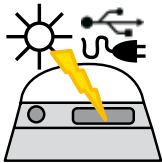
When you use the lamp, it will blink 3 times to indicate that the HiLight battery is almost empty.

#### To charge HiLight from sun:

Place HiLight in sun and direct solar cells towards the sun. Blinking green LEDs indicate charging. Note: Shadows or clouds decrease charging efficiency.

#### To charge HiLight via Micro-USB:

Connect the HiLight to grid or computer USB using a Micro-USB cable. Blinking green LEDs indicate charging. Cable not included.



### HIBERNATE MODE

Use hibernate mode to maintain battery levels and keep HiLight ready for use after long term storage.

To enter hibernate mode, push and hold HiLight button for 10 seconds.  
To exit hibernate mode, push HiLight button once.

### HILIGHT INDICATORS

#### Charging indicator:

Press and hold HiLight button for 1 sec to see HiLight battery level, indicated by green LEDs:  
0 = empty  
1 = almost empty (less than 30%)  
2 = less than half (30-60%)  
3 = more than half (60-90%)  
4 = full (90-100%)



#### Warning indicator:

Red LED indicates charging/discharging has automatically stopped because:  
• HiLight battery is outside operating temperature range, or  
• HiLight is overloaded by charging too many devices.  
To reset, press HiLight button for 1 sec.

### PERFORMANCE

(depends on cell phone type, location etc.)  
10 hrs of clear sunlight gives a fully charged battery, which provides  
• 20 hrs of light (at normal level), or  
• <10 mobile phone charges, or  
• 14 hrs of GPS usage

### CARE

- Make sure you close the USB cover at all times when you are not charging.
- When charging the HiLight battery via Micro-USB, disconnect the cable when the HiLight battery is fully charged.
- If the USB cover has become detached from the HiLight, you can easily put it back through the opening at the back.

### TECHNICAL SPECIFICATION

Solar cells	2.4 W Mono-crystalline Silicon
Outlet	Standard USB (5V, 1A)
Input	Sunlight or via Micro-USB (5V, 1A)
Battery	14 Wh Li-Po (3900 mAh, 3.7 V)
LED	1 W Super LED
Operating temp.	-5 to + 60°C
Dimensions	Diameter 19 cm, depth 2.5 cm
Weight	430 g
Certification	CE certified, RoHS compliant

### TROUBLE SHOOTING

Problem	Solution
HiLight does not charge your device.	The internal battery might be empty. Try charging the battery either via sunlight or the micro-USB port.  The charging cable is not compatible. Try using an appropriate cable (Std-USB).
HiLight LED does not light up.	Your device might consume more power than the output of HiLight. Connect only appropriate devices according to specifications.  The internal battery might be empty. Charge the battery via sunlight or the micro-USB port.
Red LED is lit.	If more than one device is connected, disconnect all and reconnect only one.  If HiLight battery is outside operating temperature range (-5 to + 60°C), place HiLight in a cooler/warmer place until red LED turns off.

### SAFETY INSTRUCTIONS

- HiLight floats, but should not be immersed or used under water. If water has entered the product, let it dry completely with the USB cover open before using. Otherwise the electronic system could be damaged.
- The power consumption of the device you charge should be maximum 5V DC, 1A.
- If you charge HiLight from the grid or USB, ensure you are using a properly certified and CE-tested cable, suitable for your geographical location and electricity grid. Else your HiLight could be damaged.
- Keep inflammable and explosive objects away from HiLight.
- Avoid placing heavy objects on HiLight.
- Do not use HiLight if it has been damaged.
- Unplug HiLight from the grid or USB cable when the battery is full.
- Do not dispose of HiLight by burning or with your household waste.

### WARRANTY

HiNation does not assume any responsibility for inappropriate use of HiLight or any other device in connection to it. Normal wear and tear and batteries are not covered by this warranty. If you believe that you are entitled to a repair or replacement of your HiLight, based on your statutory rights and applicable national laws relating to the sale of consumer products, please contact your retailer.

For additional information and to find your local dealer, check out [www.hination.com](http://www.hination.com)

### Disposal of the product

This product should not be disposed of with household wastes. The product should be disposed of similar to any electronics with batteries and electrical components

### Declaration of conformity

HiNation AB declares that this product is in compliance with the necessary requirements and provisions of Directive 2004/108/EC.

