

# **GAMA SONIC<sup>®</sup>**

## **SOLAR LIGHTING**

### **IMPERIAL II SOLAR LAMP**

US Patent # 7172307

### Instruction Manual

**Models: GS-97N**



GS-97NF



GS-97NW



GS-97NF2



GS-97NF3

### Introduction

Thank you for your purchase. **GAMA SONIC<sup>®</sup>** solar charged lighting eliminates the problems associated with most solar lighting available today. **GAMA SONIC<sup>®</sup>** solar charged lights are brighter and last all night with a full day solar charge. With unique designs, superior light output and numerous installation options confirm the outstanding value of our product.

**GAMA SONIC®** has been recognized as a worldwide leader in the lighting industry for over 20 years. The company also offers unique multi-purpose rechargeable products that range from party lights to emergency lighting products. For technical assistance and more information call our Toll Free number: 800-835-4113 (only within the US)

Or visit our website or download the latest version of your instruction manual:

[www.gamasonic.com](http://www.gamasonic.com) Or [www.gamasonic.com/user-guides](http://www.gamasonic.com/user-guides)

Please read the instruction manual carefully to obtain the best results from your purchase.

### **Solar Lamp Pre-Installation Guidelines**

1. For optimum light duration throughout the night, it is very important to mount your solar lamp post in a spot where it will receive the maximum amount of sunlight throughout the day.
2. For best results, the solar lamp must be charged for two sunny days in the "ON" position (by choosing your desired brightness level).
3. **If you are replacing an existing gas/electric post light, you must consult a certified technician to cancel them before installation.**

### **Operation Instructions**

1. Detach the upper portion of the lamp as shown in **Fig. 1** by turning it counterclockwise.
2. Turn operation switch "ON" to your desired brightness level (see **Fig. 2.**)
  - **Low "I"** - Lasts longer using dimmer light.
  - **High "II"** - Brighter light output.
3. Reassemble the upper portion of the lamp by placing it on top of the 4 hinges, and then turn it clockwise. (**Fig. 3.**)



**Fig. 1**



**Fig.2**



**Fig.3**

## Assembly Instructions



### GS-97NF

Place Lamp Part (A) on top of your existing 3" round post and tighten the 3 screws provided to secure the lamp.

### GS-97NF2/GS-97NF3:



1. First remove screws from center support (C) and the screw from the back of the arm (B).
2. Attach arm(s) using these screws; the silver screw will need to be attached from the inside of the center support (C).
3. Place center support (C) on top of your existing pole and tighten screws (H).
4. Place lamps (A) onto the arms and secure with screws (F).



### GS-97NW



**NOTE: locate your solar lamp facing the south for best results.**

1. Use electric drill to make two holes in the wall
2. Place provided screw anchors into the holes
3. Place the wall bracket (N) in line with the holes and screw on with the provided screws.
4. Place Lamp (A) onto bracket and secure with the 3 screws provided.



## Replacing the Batteries

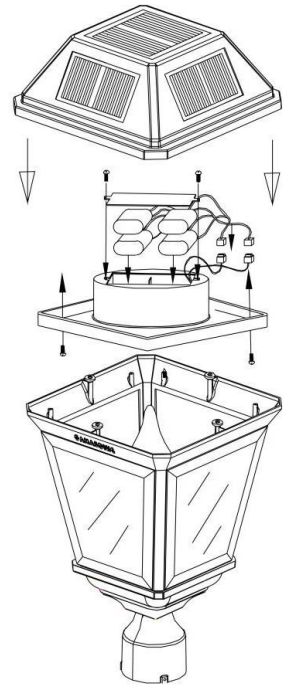
Replacement batteries are available at [www.gamasonic.com](http://www.gamasonic.com) or via our Toll free number: +1-800-835-4113

As of January 2017, all Imperial II Solar Lamps have (4) Li-Ion rechargeable batteries included/pre-installed (3.2V/3000mAh) (12A).

Our Imperial II solar light duration will last 72 hours in the LOW setting and 36 hours in the HIGH setting once all batteries have been fully charged in the direct sun for +3 days.

(After 2 ½ -3 years, the batteries will need to be replaced.)

1. Detach the upper part of the lamp as shown in **Fig. 1** by turning it counterclockwise.
2. Make sure the operation switch is in the OFF position.
3. Release the battery compartment screws located on the silver reflector and remove the old battery packs as shown in **Fig. 4**. Make sure new batteries are (3.2V/3000mAh) (12A) Li-Ion Rechargeable Gama Sonic Batteries.
4. Install the new batteries into the battery compartment.
5. Reassemble the unit by reversing the above procedure.



**Fig. 4**

**WARNING:** Do not dispose of Li-Ion batteries in the regular trash, municipal waste stream or by fire as batteries may leak or explode. Do not open, short circuit, or mutilate batteries as injury may occur. Preserve our environment by recycling Li-Ion batteries or disposing of them in accordance with local, State and federal regulations. Do not mix old and new batteries.

### **Maintenance**

Clean the solar module regularly with a damp towel to guarantee optimum performance of the solar panel. Do not use any type of solvent for cleaning and be careful not to put too much pressure on the module while cleaning.

### **Trouble Shooting**

If your solar charged light does not come on at dusk despite observance of all the instructions, please try the following steps:

1. Make sure that the solar light is not being affected by any other light source (i.e street lights).
2. Ensure the solar light is not positioned in the shade during the day.
3. Make sure the switch in the lamp head is in the " ON" position.
4. Check that the batteries are installed correctly.

**NOTE:** The performance of the solar light will vary with the time of year. It will deliver more light when it has had a full day in the sun rather than a day in overcast weather.

**WINTERTIME TIPS:** Keep snow and debris cleaned off the solar panels so the batteries can recharge. If the lights are covered with snow for an extended period of time, after the snow melts, allow all the batteries to charge in full, direct sunlight for at least 6 hours to their maximum capacity.

**WARNING:** Please keep out of reach of children.

