

# Secur™

## SOLAR & HAND CRANK LED FLASHLIGHT

### Model **SP-1002**

**General Description:** This high power LED flashlight is rechargeable and never needs batteries or bulbs. The battery can be charged by the built-in hand crank or the built-in solar panel. Completely waterproof, you can use this flashlight to a depth of up to 45 feet.

#### Product Features and Functions:

- Built-in hand crank dynamo generator.
- Built-in solar panel.
- 1 LED light - 3 LED light - 3 LED flashing light.
- Waterproof up to 45 feet.
- Easy to use, no external batteries.
- Controlled by long life electronic switch.

#### Operating Instructions:

**Charging the Battery:** Unlock the handle and crank clockwise at about 3 revolutions per second for 1 minute or more, press the switch and the light will come on. Place the flashlight with the solar panel facing up in direct sunlight to charge.

**Lighting modes:** press the switch once, one LED in middle lights up; press again, three LEDs light up, press for the third time, 3 LEDs flashing will light up; press once more, the flashlight turns off.



#### Technical Specifications:

Max. Luminous flux of 3 LEDs	8Lm
Max. Luminous flux of 1 LED	3Lm
Lighting time of 3 LEDs after being charged fully	4 hours
Lighting time of 3 LEDs after 1 minute cranking	60 minutes
Lighting time of 1 LED after 1 minute cranking	80 minutes
Flashing time after 1 minute cranking	110 minutes
Lighting time of 3 LEDs after being charged by direct sunlight for 1 hour	90 minutes
Lighting time of 1 LED after being charged by direct sunlight for 1 hour	120 minutes
Flashing time after being charged by direct sunlight for 1 hour	140 minutes
Fully charged time by sunlight	8 hours
Flash frequency	About 2 Hz

#### Lifespan:

LED light	50000 hours
Switch lifetime	100 000 times
The whole unit lifetime	5 years
Plastic part lifetime	5 years

#### Battery and Solar Panel:

The built-in battery specification	80 mAh, 3.6V, NI-MH battery
Solar panel	5.5V, 20mA

#### Size and Weight:

Size of this unit	6" x 2.5" x 1.75
Weight of this unit	6.5 Ounces

#### Precautions:

- To avoid injury, never shine the light directly into the eyes.
- Crank as evenly as possible and keep rotating steadily. Cranking too slowly will increase the charging time, cranking too quickly can damage the power generator.
- Be careful when cranking to avoid injury to fingers and fingernails
- To increase the lifespan of the battery, do not crank continuously for more than 3 minutes when the flashlight can light normally – and do not crank more than 10 minutes continuously when it can't light.
- Cranking the handle at least 1 minute once a month will prolong the life of battery.

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HOUSEHOLD EMERGENCY PRODUCTS

## Secur Products

A Division of Maverick Industries  
94 Mayfield Avenue  
Edison, NJ 08837

[www.securproducts.com](http://www.securproducts.com)

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