

Product Data Sheet

No. **87451** - 10/12

SOLADYNE® SOLAR LANTERN

PRODUCT NUMBER: 7451



I. GENERAL DESCRIPTION

Features: The SolaDyne® Solar Lantern features improved lighting and power options. Two amber LED nightlights on the top offer a gentle light for nighttime visibility. Four white LEDs on the top provide downward reading/task lighting and 12 white LEDs on the bottom plus the 4 LEDs on the top cast a wide area of ambient light on low, medium, or high light intensity. (Note: when on high, only the bottom 12 LEDs will operate).

To charge the lantern, power may be collected from a variety of included options or optional accessories. Charging methods included with the #7451 are the solar panel on the top, the dynamo hand crank, a 12V-6.5V DC charger that connects to your vehicle's power receptacle or other 12-volt power source, or a 5V USB charger that plugs into a computer or other power source using a USB port. Accessory methods include optional solar panels, battery packs, or a 120V AC/DC wall charger. For extended use, 4-AA size batteries can be installed in the base of the unit to provide many more hours of operation. The AA batteries may be used while charging by any of the other methods. The battery selector switch controls this feature's operation.

The lantern also features a fold away hook so that you can hang it, a specially designed conical reflector to cast a wide area of light, an input port to plug in the charger, a 2-color charging indicator light on the lantern and a red indicator light on the 12-volt charger. It will also charge a cell phone using the dynamo hand crank (additional cell phone tips not included).

A nylon storage bag is included to keep the lantern protected when not in use. May also be used while charging in the sun by keeping the solar panel exposed.

Benefits: A lantern that never requires fuel and uses "free" energy means it will work when needed. Charge it in the sun during the day for use at night or use the hand crank or other charging methods if no sun is available. With the increased ability to install 4 additional AA batteries, available power is significantly increased. Please note that if AA *rechargeable* batteries are used, they are not recharged using the solar or dynamo features of the lantern. An external recharging source is required.

The selectable low-medium-high switch helps to conserve battery power as you only use the light you actually need instead of full-on. It is also safe to use indoors and by children - no fire or carbon monoxide danger.

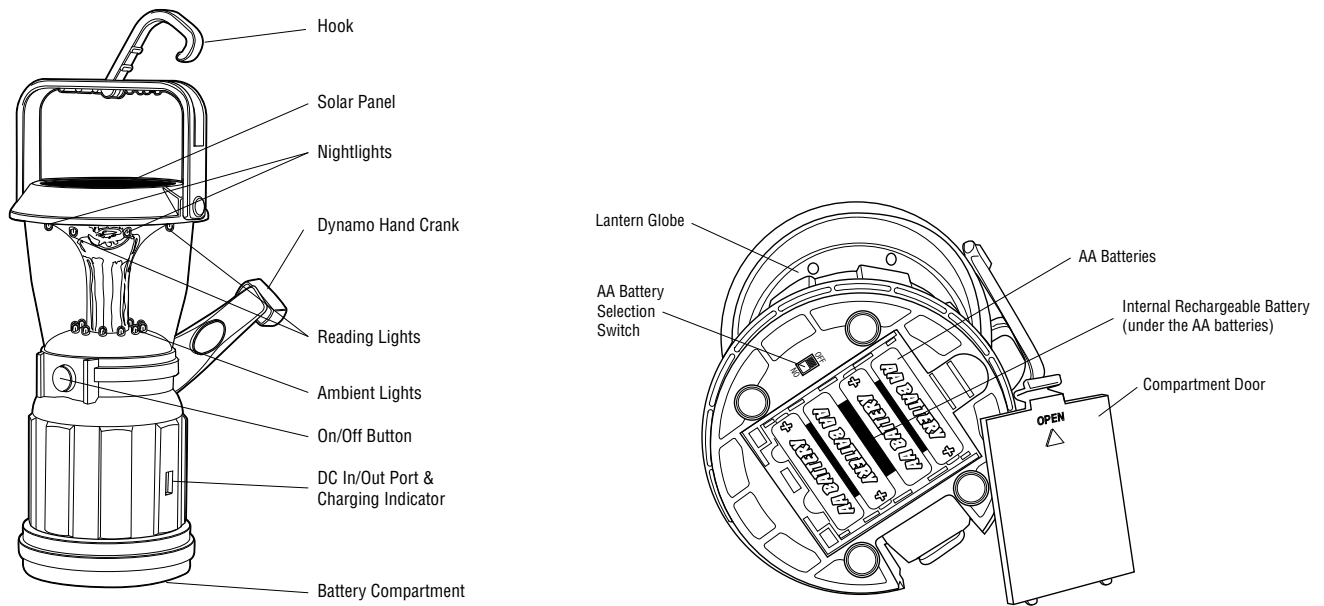
Uses: Ideal for camping and other outdoor activities. May be used inside of a tent, RV, car or home. Also makes a perfect accessory to any emergency preparedness kit. When not in use, store in the included storage bag.

Warnings: Read all instructions before operating. Do not look directly at the light as it may cause injury. Do not submerge. Unit is water resistant but not waterproof. Cover solar panel and lantern in extreme weather conditions. Administer close supervision when using around children. Not intended for use in explosive atmospheres. Do not store for an extended period of time with added AA batteries installed.

Packaging:

Each box:	2 lbs. (0.7 kg)	0.3 CF (0.008 CM)	6.3" L x 6.3" W x 12.2" H
Case (4/case):	8 lbs. (3 kg)	1.15 CF (0.03 CM)	12.2" L x 12.2" W x 12.5" H

II. DIAGRAM



III. SPECIFICATIONS

Color	Silver and Black
Construction Materials	Globe: PMMA Acrylic Body: durable ABS plastic and rubber
Internal Rechargeable Battery	Replaceable 3.7V 1200 mAh lithium-ion battery pack
Battery Life	2 years (500-1000 full charging cycles)
In-Base AA Battery Compartment	4 each 1.2V to 1.5V standard or rechargeable AA batteries
Solar Panel	3.54" (90 mm) monocrystalline. 0.6W (5.5V 100 mA)
Solar Panel Life	3+ years depending on environmental conditions
LED Specification	25,000 MCD/50 lumens. Approximately 100,000 hours
2-Color Charging Indicator LED	Red when charging occurs from any source. Green when charging is complete.
Lantern Power	DC Input: 5V-6.5V DC, 1200 mA DC Output: 5.2V DC, 450-550 mAh (using DC port and cell phone adapter via dynamo) Maximum DC input from any source 6.5V DC 1200 mA
12V DC Charger (included)	Input: 12V DC Output: 5V 1000 mA USB A with charging indicator light
120V AC/DC-6.5V DC Charger (not included)	Input: 120V AC 50/60 Hz Output: 5V-6.5V 1000-1200 mA max. Positive polarity
Weight	1 lb. 10 oz.
Dimensions	5.75" L x 5" W x 10.5" H

POWER USE GUIDELINES	INTERNAL RECHARGEABLE BATTERY	4-AA BATTERIES
2 Amber LED Nightlight	40-48 hours	150-160 hours
4 White LED Downward Reading Lights	35-40 hours	120-130 hours
16 White LED Ambient Light - Low	25-30 hours	90-100 hours
16 White LED Ambient Light - Medium	13-16 hours	30-40 hours
12 White LED Ambient Light - High	6-8 hours	12-14 hours

CHARGING TIMES (to reach a full charge)	
Included	Accessory
Solar Panel: 8-10 hours when kept in full sun as described. If not adjusted, charging time will increase.	120V AC/DC Charger: 2-4 hours
12V DC Charger: 2-4 hours	Ray 'N Goz Solar Collector: 3-5 hours
USB Charger: 2-4 hours	Sierra Wave Power Hub: 2-3 hours
Dynamo: 3 minutes winding = 30 minutes of light (on medium). Other light selections will increase or decrease duration.	

IV. MISCELLANEOUS

Note: Batteries must be disposed of properly. Consult local disposal authority in your area for information.

V. WARRANTY

The statements made herein, on labels, product bulletins or by any of our employees or agents concerning this material are given for information only. Any liability whatsoever of Aervoe Industries, Inc. to the user of the product, is limited to replacement of the product or purchase price refunded.

No. 87451- 10/12