

User Manual



1. Introduction

The Vu Phong Portable Light & Charger models are plug-and-play power supplies for lighting and charging phones. It is an ideal solution for off-grid places, backup, emergencies, camping, street vendors, living on boat ...

Please read the instructions in this manual before installing and using this model. There are no serviceable parts for this product. Do **NOT** disassemble or attempt to repair it. Do not allow water to drip or splash on the product.

2. Specifications

		SV1
Solar Panel		3Wp
Battery Capacity		20Wh (6V 4.5Ah)

Output	USB (5V 1A)
Recharge by	Solar, AC
Bulb	2x Super bright LED bulbs (6V 1.1W)
Lighting Control	Intelligent nightlight function (Auto On/Off)
Accessories	5 in 1 USB Charging Cable; AC Charging Cable
Size	60 x 90 x 300 mm, 1.5 kg

3. Name and Main Function

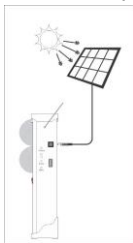
- a) Power ON/OFF switch
- b) Light ON/OFF switches: Control the light bulbs.
- c) Auto ON/OFF switch: Activate/Deactivate the Intelligent nightlight function (Lamps automatically turn on at night, turn off in the daytime).
- d) LED indicators:
 - Charging: YELLOW ON whenever charging
 - Full: fully charged battery (green)
 - Normal: medium battery (yellow)
 - Empty: empty battery (red). Switch the Power switch to OFF and recharge the light.
- e) DC 2.5mm Solar port: Connect to solar panel
- f) USB Load port: Connect to phone

4. Installation and operation

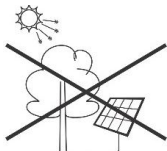
- a) Unpack and inspect your SV1, check to see that all switches are in the OFF position.
- b) Connect the solar panel to the SV1 for solar charging.
- c) Plug the phone in the USB port of the SV1.
- d) Set the Power switch to the ON position. LEDs light. Turn the Light switches on. The bulbs should light and the SV1 should supply power to the phone.

5. **Charging:**

- AC power supply: The SV1 can be charged by an AC power source using accompanying AC charging cable.
- The Sun:
 - a) Position solar panel in direct sunlight for maximum efficiency. Solar panel perform at optimum capacity when placed directly under the sun.



- b) Notice obstructions to sunlight
Remove all items or branches that may be blocking sunlight to your solar panel. Trace the path of the sun in the sky to determine if an object is casting a shadow over your solar panel. If this is the case, then the operating efficiency of your unit will undoubtedly suffer.



- c) Adjust direction of solar panel
If you're in the Northern Hemisphere, your solar panel should face true south so they'll receive light throughout the day, and vice versa.
- d) Charge the power pack using the sun
Plug the solar panel cable into the power pack to charge it. Keep plugged in, or charge every 3-6 months. Battery fully recharges in approximately ten hours* on fine days.

*Continuous solar charging time varies according to weather conditions.

6. Auto On/Off (Intelligent nightlight function)

When solar module voltage goes below the point of NTTV (Night Time Threshold Voltage) at sunset, the SV1 will recognize the starting voltage and turn on the lights when the battery power is enough. When solar module voltage goes above the point of DTTV (Day Time Threshold Voltage), the SV1 will recognize the starting voltage and turn off the lights.

7. Maintenance

Clean the exterior of the unit and solar panel periodically with a damp cloth to prevent accumulation of dust and dirt.