



## Technical Specifications

The Consol Solar Jar™ is primarily a reading light and portable lantern designed to outperform and replace candles and paraffin lights. It's a fun and sustainable, alternative and affordable light supply.

### OVERVIEW

- DESCRIPTION:** A battery powered waterproof glass lantern charged by an integrated solar panel and alternatively via the on-board USB connector.
- USES:** Can stand flat, can be carried or hung up via its steel handle.
- Use for reading, studying, cooking, playing, camping and outdoor, events and decorations, path and passage ways, emergencies and general activities.
- OPERATION:** Flip the magnet to turn light off and on.
- SWITCH:** Make sure the magnet hits the white dot on the solar panel.
- Unique magnetic switch: no moving parts, no wear and tear.
- FIRE HAZARD:** Cannot start a fire, even if mechanically damaged.

### BATTERY & FEATURES

- BATTERY:** 1 x 3.7V 600mAh flat cell aluminium enclosed Li-ion battery, when fully charged provides a minimum 12 hours of light.
- Over and under voltage battery protection to extend battery life.
- BATTERY PROTECTION FEATURE:** Battery short circuit and over temperature protection.
- BATTERY INDICATOR:** Optional fifth LED, flashes 5 times when full, once when empty.
- DAY/NIGHT FEATURE:** Optional automatic turn on after dusk and off at dawn.
- LOAD SHEDDING FEATURE:** Optional load shedding feature turns on the light for 15 seconds when the lights suddenly go off for example during a power-outage.
- Works equally well as a "good night" light.

## RECHARGE

- SOLAR PANEL:** 1 x circular solar PV panel of 4.5V, 350mA, mono-crystalline.
- CHARGING SOLAR:** Approximately 1 hour of runtime for every hour in direct sunlight.  
The unit will only trickle charge in shady conditions, enough to keep it fully charged at all times but will take a long time to charge.
- CHARGING USB:** Approximately 6 hours to a full charge, charger can be left plugged in indefinitely.

## LIGHT & LED

- ELECTRONICS:** The unit is microprocessor controlled, enabling intelligent charge, lighting control and battery management.
- POWER OUTPUT:** 120mW electrical power.  
Electrical conversion efficiency >80%

## GENERAL

- STORAGE:** Fully charge before storing.  
Store between -10 °C and +40 °C  
Avoid storage in the dark for longer than 4 months.  
Recharge at your earliest convenience to prolong battery life.
- LIFE CYCLE:** The unit's lifetime is depended on the battery life. The batteries are rated to give 500 charge/discharge cycles or 18 months of continuous use.
- GUARANTEE PERIOD:** Each unit has a unique serial number determining date of manufacture. Unit is guaranteed for 1 year from date of manufacture.
- RECYCLING:** The Consol glass jar is 100% recyclable. The electronics should be disposed of at an E-Waste recycling facility.
- DIMENSIONS:** The Consol Solar Jar™ is 115mm in diameter including wire mechanism and 170mm in height.
- WEIGHT:** 615g
- BEE COMPLIANCY:** BEE level 6
- DESIGN AND MANUFACTURE:** In South Africa by [www.suntoy.co.za](http://www.suntoy.co.za)

