

## SOLAR LANTERN

A Solar Lantern from SED is an excellent solution for light at homes where mains utility is unavailable. Based entirely on MNES specifications, it has the following salient features.



### ELECTRONICS:

- Entire electronics housed on a single PCB with connectors for easy replacement without any need of desoldering.
- It contains a high frequency, 27KHz, pure sine wave inverter to drive 4-pin, 7 W CFL with pre-heat technique to avoid the blackening of ends.
- Inverter is protected against accidental short or open circuit conditions.
- Charge controller is shunt type regulating with temperature compensation.
- Very low drop out voltage to utilise the full potential of solar panel is achieved by a Schotkey diode which also prevents reverse current from battery to panel at night.
- Protections are provided against reverse battery connection, over charge and deep discharge of battery and short circuits.
- Idle current is less than 1 mA for prolonged shelf storage.
- Lumen output is constant over entire operating range of battery voltage.
- Two indicators are provided to show the charging state and battery low condition by two LEDs.
- Sealed maintenance free battery of 12V /7 Ah is fitted inside to give over 4 hours of backup every day.
- 10W solar panel with suitable cable for connection is provided.
- Over 90 % of rated Lumen output is guaranteed after 1000 cycles of operations with 2 minutes on followed by 4 minutes off period as is mandatory by MNES.
- CFL is fitted in base down configuration with 360<sup>o</sup> orientation.

Mfg by:



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