

SOLAR LANTERN

SL-01



Solar lantern is a portable light source like a traditional lantern which gives omni directional pure white light.

It consists of a solar photovoltaic module, Sealed Maintenance Free (SMF) lead acid battery, charge controller and DC-AC inverter for lighting the Compact Fluorescent Lamp (CF Lamp).

Highly efficient two-step charge controller protects battery from over charging and deep discharging. High frequency inverter offers high efficacy, more light output and long service life to the CF Lamp. The Solar lanterns are available in two different series - "SL-01" and "SL-02". Depending on the CF Lamp and SPV module wattage, "SL-01" is available in 6 different models.

FEATURES

- Non polluting, inexhaustible energy from the Sun
- Omni-directional pure white light
- Safe and easy to operate
- Excellent protections and indications
- Approved by CPRI as per MNES specifications
- Rugged and attractive body made of ABS plastic
- UV stabilised acrylic light diffuser

TECHNICAL SPECIFICATIONS

	SL-01 5W	SL-01 7W
General		
Solar PV Module	8Wp / 10Wp / 12Wp (see ordering information)	
Battery	12V, 7AH VRLA (SMF) Lead Acid	
Application	Portable emergency indoor light source	
Lamp type	Compact Fluorescent Lamp (CFL), 4 Pin, Single U	
Lamp wattage	5W	7W
Rated light output (Lumens)	250 ± 5%	400 ± 5%
Light coverage	360 Deg	
Daily hours of operation	3-4 Hrs	
Number of days of autonomy	3-4 Days	



Electrical		
Inverter type	Quasi Sine wave, Free running	
Inverter frequency	24-28 kHz	
Inverter efficiency	> 82%	
Charging method	Series pulsed, two step	
Indications	Charging and low battery	
Reverse polarity protection	Provided with glass cartridge fuse	
Mechanical		
Lamp fixing	CF Lamp in base up configuration	
Case	Injection moulded engineering plastic	
Light diffuser	UV stabilised, Non yellowing acrylic	
Size (shipping) (mm) without SPV module	200x200x320	200x200x320
Weight (shipping) without SPV module	3.5 Kg	3.5 Kg

Note: Specifications subject to change without notice. Check for latest update

ORDERING INFORMATION

SL-01 SERIES				
Model	Lamp	Battery	SPV Module	Duration
SL-01 05082F	CFL 5W	12V 7Ah	12V 8Wp	2-3 Hrs
SL-01 05102F	CFL 5W	12V 7Ah	12V 10Wp	3-4 Hrs
SL-01 05122F	CFL 5W	12V 7Ah	12V 12Wp	4-5 Hrs
SL-01 07082F	CFL 7W	12V 7Ah	12V 8Wp	3-4 Hrs
SL-01 07102F	CFL 7W	12V 7Ah	12V 10Wp	4-5 Hrs
SL-01 07122F	CFL7W	12V 7Ah	12V 12Wp	4-5 Hrs