

SOLAR LANTERN



Solar lantern is an omni directional and portable light source which emits pure white light. It consists of sealed maintenance free lead acid battery (SMF), solar module, charge controller and DC-AC inverter for lighting the compact fluorescent lamp (CFL).

Highly efficient two-step charge controller protects battery from over charging and deep discharging. High frequency inverter offers high efficiency, more light output and long services life to the CFL.

The solar lantern is available in different models depending on the CF lamp and SPV Module wattage. The solar lantern also has an additional feature of a Night Lamp - a LED emitting white light. This light source can be operated throughout the night. This feature is optional.

FEATURES

- Omni-directional pure white light
- Micro controller based electronic circuit
- All necessary protection
- UV stabilised acrylic light diffuser
- Non-polluting
- Maintenance free with a bright and pleasant light source for approximately 4 hours a day.

Benefits derived from a Solar Lantern (Rural masses):

- Cooking in the evening after returning from field.
- Small cottage industry activities in the evening, which helps them to earn additional income to support their families.
- Visiting the agriculture fields etc in the night.
- As community lighting etc.
- Children & Adult education.

SUNGRACE
SOLAR LANTERN



TECHNICAL DATA SHEET OF SOLAR LANTERN

SGL7/1208	SGL7/1210 (Model IIA)
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ELCTRONICS

Wave form type	:	Quasi sine wave
Crest factor	:	1.49
Frequency	:	25.56kHz
Efficiency	:	83.3%
Pre-heating arrangement	:	Provided
Idle current	:	0.2mA
PCB installation	:	Solder free
Battery temperature compensation	:	Provided

LAMP

Make	:	Osram or any equivalent make
Power	:	7W
No. of pins	:	4 pins
Mounting configuration	:	Base Up
Light output prior to 1000 on/off cycles	:	381 lumens
Light output after 1000 on/off cycles	:	374 lumens

BATTERY

Make	:	Any approved manufacturer make
Type of battery	:	SMF
Capacity at C/20 discharge rate at 12V	:	7 Ah
Percentage of rated capacity between low and high voltage cut-off	:	80%

MODULE

Make	:	Sungrace	
Type of module	:	Mono/poly crystalline silicon	
Watt Peak	:	8Wp	10Wp
Voltage	:	12 v	

PROTECTION & OTHER FEATURES

No load protection	:	Provided
Short circuit	:	Provided
Reverse polarity	:	Provided
Reverse flow protection	:	Provided
Low voltage cut off	:	Provided
Load reconnect	:	Provided
Over charge cut off	:	Provided
Module reconnect	:	Provided
Indicators	:	Provided
Switch and Cable	:	Provided

Specification & other details mentioned in this sheet subject to change without any prior notice. Please feel free to contact us at the following address. We assure you our best service always.



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