

Solar Forever

Clean energy. Free for a lifetime.

instapower™

SOLAR LANTERN

Instapower has developed a high quality Solar Lantern designed to make solar energy more accessible. The lantern can provide up to four hours backup. Solar lantern is a simple application of Solar Photovoltaic Technology, which has found good acceptance in all regions where the power supply is a major problem.

How does a Solar Lantern work?

A Solar lantern is made of three main components - the solar PV panel, the storage battery and the lamp. The operation is very simple. The solar energy is converted to electrical energy by the SPV panel and stored in a sealed maintenance-free battery for later use during the night hours.

Easy Charging

1. Keep the switch in ON position
2. Plug in the cable. (See image 1)
3. Green LED glows continuously
4. Auto charging & cut off



Image1



Technical Specifications

Solar Panel	6V/5W
Battery	6V/4Ah
Charging Indicator	Green: Charging from Solar Panel
Battery Low Indicator	Red: battery low indicator
Electronic efficiency	>80%
lux @ 1 meter	6.5
Autonomy/ Backup	4 hrs per day
DC fuse	Provided
Idle Current	<1mA
Low disconnect battery voltage	11.2 V
Load reconnect battery voltage	12.4 V
High voltage cut off	13.4
Battery reverse protection	Provided
Solar panel reverse protection	Provided
Light cover Area	360 degrees uniform
Body color	Red / Blue

EMERGENCY LIGHT

LED Colour: White

Peak intensity*: 64lux (100W Bulb)

Backup: > 4 hr

Operating I/P voltage: 80V-300V AC

Power: 6W

Casing: MS

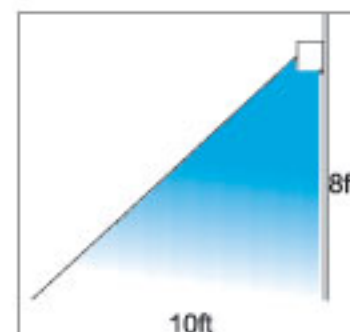
AC side protection: Under-voltage and Over-voltage protection

DC side protection: (a) Short circuit (b) Deep discharge (c) Reverse polarity

Indications: (a) Mains mode {Green LED} (b) Backup mode {Yellow LED}

Operating temperature: -30°C ~ +70°C

Protection against battery overcharge



*If the emergency light is kept at a height of 8ft, it will illuminate an area of 10ft diameter



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