

RITIKA SYSTEMS

Solar Power Generating Systems

Products :

- Solar Lanterns
- Solar Home Lighting Systems
- Solar Street Lighting Systems
- Solar Garden Lights
- Solar Blinkers
- Solar Traffic Controllers
- Solar Street Lighting Controllers
- Solar Fans
- Solar Caps
- Solar Toys
- Solar Road Sparklers
- Solar Power Packs
- DC Luminaires
- Charge Controllers
- Change Over Switches
- Solar Inverters
- Solar Aviation Lights
- Solar Pumps
- Solar Bill Boards
- Solar LED Lighting Systems
- Solar LED Lanterns
- Solar Battery Chargers
- Solar Torches
- Solar Custom built Devices



RITIKA SYSTEMS offer a wide range of Solar PV Lanterns with standard and custom built versions. The standard models generally conform to MNES specifications.

Specifications:

Lantern Housing Material ABS
 Chimney Material Acrylic / Polycarbonate / SAN
 Lamp 5 / 7 Watts compact fluourescent lamp in four pin / two pins versions depending upon the model
 SPV Module 5 / 8 / 10 / 12 Wp module depending upon model.
 Battery Sealed Maintenance Free Battery of Absorbed Electrolyte type.

Models

Models	Lantern Type	Battery Capacity	PV Module Rating
HULITE951-A	CFL 5W	12V7AH	8 Watts Peak
HULITE951-B	CFL 5W	12V7AH	10 Watts Peak
HULITE952-A	CFL 7W	12V7AH	10 Watts Peak
HULITE952-B	CFL 7W	12V7AH	12 Watts Peak
HULITE954-A	CFL 5W	6V4.5 AH	5 Watts Peak
HULITE004-B	CFL 5W	12V4.5 AH	5 Watts Peak
HULITE005-A	CFL 5W	6V9 AH	5 Watts Peak
HULITE005-B	CFL 5W	6V4.5 AH	5 Watts Peak

Provisions :

Following provisions are available

- ON - OFF Switch. Fuse Solder Free Installation. Blocking Diode to prevent reverse flow of current.
- 5 Meters long charging cable with the SPV module.
- NO Load, Short Circuit & Reverse Polarity Protections.
- Plug & Socket for connection of PV module to the Lantern for charging.
- LED indicators for battery deep discharge (load disconnect), battery overcharge (charging disconnect) (optional) & charging in progress .

Duration of Light:

3 hours of lighting for model HULITE 951 Hultite 952 & 1.5 hours for Model HULITE 004 & 005 per day is expected under average solar radition conditions of 5 KW/H/ sq.m on horizontal surface. Actual duration of lighting will depend upon solar radiation conditions.

Lighting directions: Omni directional (Covering 360°)

Light Output

CFL 5 Watt: 250 Lumens nominal with base up condition at an ambient temperature of 25 ° C)

CFL 7Watt: 400 Lumens nominal with base up condition at an ambient temperature of 25 ° C)

Electrical Specifications:

Wave shape of Inverter out put Quasisine wave / near sine wave.
 Frequency range of Inverter 20 to 35 kHz.
 Idle Current Negligible.

Model Variants:

- There are three solar Lantern models suitable for 12V 7Ah batteries.
- Classic model has top opeque with metallic handle and has plane body.
- The Executive model has top transperent with plastic handle and operating controls (switch, fuse etc.) are covered with door. The housing has hot strips.
- The superior model has body with strips, plastic handle and with open window for fuse socket etc.
- 6 V Lantern are mini lanterns.

Applications:

- Small Village lights ● Tent lights ● Camp-hut lights ● Night petrolling ● Night signals
- Train Guard signaling

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