

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 Home Lighting Systems with standard and custom built versions. The standard models generally conform to MNES specifications.

Models:

Models:	Solar Module x Nos	Battery	Luminare	Charge Controller	Cable & Hardware	Battery Box	Other
Model 1	18Wp X 1	12V 20Ah	One	One	1 Set	One	
Model 2	37 WP X 1	12V 40Ah	Two	One	1 Set	One	
Model 3	37Wp X 1	12V 40Ah	One	One	1 Set	One	1 DC Fan
Model 4	37WP X 2 or 74WP x 1	12V 75Ah	Two	One	1 Set	One	1 DC Fan
Model 5	37WP x 2 or 74WP X 1	12V 75Ah	Four	One	1 Set	One	

Note: 1. DC Fan is of <20W 2. DC Operated B&W Television is available with Model 5 as optional & at extra cost.

Specifications:

CHARGE CONTROLLER IN HOME LIGHT SYSTEMS

Max. Charging Current	6 A
Max. Load Current	6 A
Load disconnect battery Voltage	11 ± 0.2 Volts or as required
Load reconnect battery Voltage	12.5 ± 0.2 Volts or as required
Constant Charging Voltage	14.5 ± 0.2 Volts or as required
Idle current consumption	Less than 10 mA.

Inverter

Wave Shape of Inverter	Quasi sine wave/ Near sine wave
Farequency of Inverter	20 to 35 KHz.
Overall efficiency	80 % (Including Charge Controller)

Light Output

600 lumens (normal) for each luminaire of CFL 9 Watt lamp & 900 Lumens (nominal) for each Luminiare of CFL 11W lamp.

Duration or working

Model	Hours of operation
1	Lights 3 - 4 Hours
2	Lights 3 - 4 Hours
3	Lights 1 - 2 Hours: Fan 1-2 Hours
4	Lights 2 - 3 Hours: Fan 2-3 Hours
5	Lights 3 - 4 Hours

These hours of operations are based on average Solar Radiation conditions of 5 KWh/sqm on an horizontal surface.

Actual duration of lighting will depend upon solar radiation condition. The average hours of operation per day will be reduced if TV Set is also energised from the system.

Variants

SPV Domestic Lighting Systems

PV Module 15 Wp, 20Wp, 37Wp, 2x30 Wp, 2x35Wp, Depending upon hours of lighting and type of lamps required.

Lamp Options CFL 5/7/9/11 Watts, ; TLD 18 / 20 Watts.

Hours of Light Options 3 to 12 hours depending upon type of lamp and number of lamps

Battery Options 12 V, 20/40/60/75/80 Ah Positive Tubalar Plates Batteries at C / 10 rate. or 12 V 40/65 Ah Sealed Maintenance Free Battery at C/20 rate. Or any other as per customer's requirements.

Electronic Options

Charge Controller: (PWM or VF or ON -OFF Type)
Reverse polarity protection
Battery deep dischrge Protection.
Battery overcharge protection.
Charging ON
Battery deep discharge
Battery Overcharge (Optional)

Indications

Luminaire Housing options

Aluminum /ABS/MS

Stucture Options

Roof Mounting / pole mounting.

RITIKA SYSTEMS PRIVATE LIMITED

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