

# Solar Home Lighting Systems

## FEEL THE DIFFERENCE

MARUTHI's Solar home lighting systems are designed to operate as one integrated system. This system includes the power generation, storage and management (solar panels, battery & controller) as well as the light itself, support frame & attractive indoor lights and provision for connecting other loads (radio, tape recorder, portable TV, fan, etc... depending upon the system configuration) as well as a complete set of installation hardware.

The fully integrated system incorporate the latest and most innovative technologies like PWM(Pulse width modulation) and three stage battery charging to enhance the better battery life, providing years of convenient and trouble free lighting. Maruthi Solar has a wide range of Solar home lights which includes CFL, and LED lamps for different home lighting requirements. The Solar Home system is an excellent solution for household electrification in rural areas.



### Features

- Highly efficient PWM charge controller and inverter
- Three step charging algorithm
- Elegant and efficient luminaries
- Temperature compensated battery set points
- Safe & easy to install
- Free from noise, smoke and pollution
- Available in different configurations
- Battery status indication

## Application

- Houses, Huts and Cottages
- Clinics
- Schools
- Holiday Resorts
- Offices, Bank
- Other Indoor Applications

MNRE  
Approved

## Technical Specification

CFL based home lighting Systems

LED based home lighting System

### Technical details

**18 Watt**

**40 Watt**

**75 Watt**

**LED M1**

**LED M2**

SPV Module

18Wp

40Wp

75Wp

8Wp

12Wp

Battery@C10

12V 40Ah

12V 60Ah

12V 75Ah

7Ah @ C/20 SMF 20 Ah @ C/10 Tubular

Lamp/Wattage

7/9/11 W

7/9/11 W

7/9/11 W

3 Watt

2X3 Watt

No of Lamps

2

4

6

1

2

Daily Usage Capacity

3 to 4 hours

3 to 4 hours

3 to 4 hours

3 to 4 hours

3 to 4 hours

Storage Autonomy

3 Days

3 Days

3 Days

3 Days

3 Days

PWM Charge Controller

6 Amps

10 Amps

10 Amps

6 Amps

6 Amps

### Other Accessories

*Data subject to change due to continuous improvement.*

1. Mounting structure
2. Cables
3. Battery Enclosure
4. Optional DC fan

## Maruthi Solar Systems

An ISO 9001-2008 Certified Company

#9, Sy. No. 38/6, Main Road, H. M. R. Layout, Poornapura Village,  
Gokula, Bangalore- 560054. INDIA  
Tel No. +91-80-23457165, Mobile: +91-9980140804,  
email: info@maruthisolar.com, website: www.maruthisolar.com