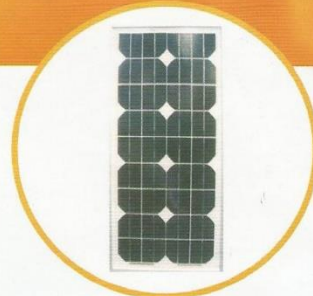


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# SOLAR HOME LIGHTING

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## Introduction

The solar home lighting system consist of solar photo voltaic module, solar charge controller unit, inverter, battery and a set of cables. It is a reliable power source for home appliances & is eminently for household purposes. This system provides the perfect solution for electricity generation from sunlight in an efficient & environment friendly manners. Solar charge controller unit is with high capacity charge to charge bigger battery. The first 70% to 80% of battery capacity is easily replaced but the last 30% to 20% require more attention & therefore more complexity. This unit uses PWM method to charge the battery. PWM is an efficient charging method that maintains a battery at its maximum state of storage & minimizes sulphation build up by pulsing the battery voltage of high frequency.

## Salient Features:

- Available in 3A/5A/8A
- Housed in a compact elegant based electronics
- Micro controlled based electronics
- Low battery alarm
- High quality electronics meeting MNRE,ETDC standard
- Eco friendly solar energy product

## SPECIFICATION TECHNICAL

### (Charge Controller Unit)

<b>Module rating</b>	<b>12v, 18wp, 36wp, 74wp</b>
<b>Battery Rating</b>	12v, 20ah, 40ah, 80ah
<b>Protection</b>	Reverse polarity of battery, reverse polarity of spy, no load protection, short circuit
<b>Waveform inverter</b>	Quasi sine wave
<b>Battery low cut off</b>	10.0v
<b>Load reconnect</b>	12.5v
<b>Charging type</b>	Pym, two step charging
<b>Charging indication</b>	Green led
<b>Low battery Indication</b>	Red led

<b>Load on</b>	Yellow led
<b>Output</b>	3 nos. connectors for dc load

**SPECIFICATION TECHNICAL  
(CFL Home Light)**

<b>CFL type</b>	4 pin, 5w / 7w / 9 / 11w
<b>Output waveform</b>	Quasi sine wave
<b>Inv. Operating freq.</b>	25khz(+/-3khz)
<b>Inv. Working Voltage</b>	10-14v dc
<b>Nominal voltage</b>	12 VDC
<b>Crest factor</b>	1.6
<b>CFL pre-heating</b>	Provided
<b>Temp. rise</b>	10+c above ambient
<b>Efficiency</b>	>85%
<b>Protection</b>	Open circuit protection Short circuit protection Reverse polarity



With

