

## DC HOME LIGHTING SYSTEM HLS25MI18



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### ELECTRICAL SPECIFICATIONS

Parameter	Value
Panel Voltage	12 V
Solar Charging Current	25 AMP
Grid Charging Current (Optional)	2 AMP
Charge Controller Technology	MPPT
Battery Charging Voltage	13.7V
Battery Low Disconnect	9.5V
Over Charge Cut-off Voltage	13.7V
Fuse Rating	30A
Panel recommended	40-380 W
Battery	12 V 18 AH LifePO4 battery

### OTHER SPECIFICATIONS

Operating Temperature	0°C to 55°C
DC Output	3 Dc Output 20 W For tube and Fan. 2 USB Port total 100W

### DISPLAY

It incorporates 2 line LCD to showing following parameters

- Company Name
- Battery Status
- PV Voltage
- PV Current
- KWHD (Kilo watt hour in a day)
- KWH in a month
- Battery Voltage
- Battery Current
- Battery deep charging
- Over Temperature
- Battery / PV reverse protection



### PRODUCT INTRODUCTION

- The power box which has a inbuilt 12v LifePO4 battery and a advanced MPPT based solar charge controller. It charges battery via solar or even by AC power using DC adapter runs DC load.
- There is LCD display showing all parameters.
- Backup time : 2 Bulb / Tube 1 Fan - 6 HRS  
3 Bulb / Tube - 10 HRS

### PACKAGE CONTENTS

1. Solar Home Lighting With 3 DC Port and 2 USB for Mobile Charger
2. 12V 18 AH Battery
3. 40/380 W Panel (Optional)
4. AC Charger (Optional)
5. DC Bulb /Tube 7 W-2 No (Optional)
6. DC Fan (Optional)



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### FEATURES

- Fuse provided to protect short circuit condition
- System in-built protection against battery over-charge & deep discharge
- In-built blocking diode provided to prevent reverse flow of current through PV module
- It has high efficiency SMPS charger. It implements a smart maximum peak power tracking (MPPT) algorithm that tracks the peak power point of a solar panel, irrespective of operating conditions.
- Increase life of battery by :
  - Using Battery State of Charge SOC% for controlling depth of discharge. SOC controls are factory adjustable. Normal battery voltage base controls also protect battery along with SOC controls. It runs Periodic Finishing loop for better charging.
- It implements a low battery disconnect feature to prevent the battery from discharging below a certain charge state. Battery Voltage settings are optionally temperature compensated thermistor based temperature sensor supported.
- Suppose two modes of operation for load.
  - Normal On/ Off via switch
  - Auto mode. Use Dusk Dawn monitoring & Load is switched on only during Dusk after a factory programmable delay. Duration of load on is also programmable.
- Maintains Solar Energy Meter for solar energy produced in a day & for last 30 days.

Protect Solar Charge Controller from direct Sunlight & Water.

Panel open circuit voltage should not to do be more than specified voltage

\*Specification are subject to change without prior notice due to constant improvement in design & technology.

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