

SOLAR HOME LIGH SPECIFICATION



P&C Electric Scheme Government of India
No Tension of electricity Bright darkness

FLUENT POWER AND CONTROL SOLAR HOME LIGHT SYSTEM

PNC-SHLS

SOLAR HOME LIGHT SYSTEM WITH LEAD ACIDE, LITHIUM ION, LiPo4 BATTERY

TECHNICAL PARAMETERS

SYSTEM SPECIFICATION	
PV Module	12V, 20W to 300W Polycrystalline SPV Module
Battery	Lead acid, LiPo4, Lithium Battery Pack
Controller Type	MPPT Based SCC
Input Voltage	12V DC
Max Discharge Current	Up to 7A
Max Charging Current	Up to 20A
LED Light	3-5 Nos. of 3W,5W,7W9W DC LED Bulb with B22 Cap as optional
DC Fan	12V, 15 – 20W Table Fan
No. of Load Output	1 Nos. 25W DC output socket for TV or other appliances
	1 Nos. DC socket for DC Fan
	1 Nos. USB port for mobile charging
	5 Nos. DC socket for DC LED Bulb
Warranty	2 Years on Complete System
Indication:	
Red Glow	Low Battery Indication
Green Glow	Battery Charging Indication
Green LED Off	Battery Full Charge
Yellow LED Glow	Normal operation
Red and Green Blink	Fault in the System, Overload in the system

Safety and Protection:

- Battery Over Charge Protection
- Battery Deep Discharge Protection
- Over Load and Short Circuit Protection
- Solar and Battery Reverse Terminal Protection
- Surge Protection
- Temperature Compensation

LCD Display Parameters:

- PV Voltage and Current
- Battery Voltage and Battery Current
- Load Current
- Battery Percentage
- Battery Backup Time Left
- Any Fault

SOLAR HOME LIGHT SYSTEM WITH LEAD ACIDE, LITHIUM ION, LiPo4 BATTERY**BENEFITS****OVERVIEW**

Fluent Power & Control offers most innovative range of solar powered Home Light System. In line to Government & Private Sector we offer Solar Home Light System with in-built lead acid, Lithium ion, Li-Fe-Po4 Battery and 20W to 300W Solar Panel.

Our home light system is in-built with state of the art MPPT based 12V/10A charge controller, best class lead acid, Lithium ion ,Li-Fe-Po4 Battery. Our system is compact and provide maximum charging in any environment condition.

Following is some feature of our system –

1. It is included charging status indication
2. Low voltage disconnect indication
3. In-Built lead acid, Lithium ion, Li-Fe-Po4 Battery as per demand.
4. In-Built MPPT based charge controller
5. Support 3 stage charging of battery which increase battery life.
6. 12V 18W DC Fan is included
7. 3-5 Nos. DC LED bulb is included as per needs
8. Separate 25W DC Socket is given for other operation of other appliances.
9. USB port is given for mobile charging.

APPLICATION

Fluent Power's Solar Home Light System can be used in non-electrified rural area. It can also act as an emergency light system in houses and commercial establishment.

BENEFITS

- Very safe and easy to install
- System is free from Noida, smoke and pollution.
- Our system is customisable. It is available in different configuration with light and fan.
- Since it is solar powered, hence electricity charge is zero.
- Our system is user friendly and very easy to install.
- Solar panel with frame structure can be installed at specific angle to harness max irradiation.
- Once installed, it lasts for long time & requires little attention.
- 5 Set of DC LED Bulb with 5 Mtr wire and connector is given. User can easily install bulb to any point where light is required.
- With LCD display user can monitor all the data related to battery, panel and load.

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ITEM DESCRIPTION



SPV Panel:

We are offering 20W to 300W Polycrystalline SPV module with Government & Private Sector Home Lighting System. Our PV module are highly efficient in power generation which leads to proper charging of battery.



Home Light Charge Controller:

Our 12V/10A MPPT Charge controller with inbuilt LCD display is a compact and low power consuming system. It provide maximum charging efficiency in any environment condition. It works on Maximum Power Point Tracking Technology (MPPT) and provide 3 stage charging that main battery health and its life.

**Battery:**

We are using new generation of Lithium Ferro Phosphate Battery or others , which has low self-discharge rate and high life cycle. Our system is inbuilt Battery, which is protected by balancing BMS.

**DC LED Light:**

We are offering of DC LED Bulb along with its connector and wire accessories. Bulb lumens are high and works efficiently with our system.

**DC Table Fan:**

We offering 12V 15W to 20W DC Table fan with our system. A separate connection point is given in controller box for DC fan where it can connect without any hassle.

MANUFACTURED BY:

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