



**SOLAR  
LIGHTING  
SYSTEM**

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## ABOUT US

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- The Sun is massive source of green energy. We have made an attempt to use this incredible resource to enlighten earth with the help of eco-friendly LEDs. We have infinite green energy available at the same time LED saves 90% of energy consumed in traditional light bulbs. In addition LEDs have 30 times longer life as compared to traditional lamps.
- From 2017, we have made detailed research on Indian market and tried to understand consumer preference. We have analyzed local weather conditions so as to produce more energy with least resources and cost. With the help of core scientist team, we can execute engineering solutions for number of requirement of our customer. We have a team of specialist to provide best service, maintenance and quick support.



*We Provide all Customized Solutions also.*



# **PASSION SYSTEMS**

**All Type of Solar Panel, Solar Energy Products,  
Equipment & Complete Solar Solution Provider**



# ALL-IN-ONE SOLAR LED STREET-LIGHTS

- Micro-processor based intelligent and efficient indigenous design
- Easy to install off-grid system
- Theft proof long life lithium battery pack
- Modular design of each inner parts, easy installation and maintenance
- All in one solar street-light comes with built-in passive infrared PIR motion sensor which automatically detects human/traffic presence and adjusts LED brightness accordingly. If there is no motion for more than 30 seconds, the controller reduces brightness to fifty percent. On detecting any movement in the range of twelve meters, the light will automatically glow at full power. This will provide required illumination only when needed and helps in increasing battery backup period
- High efficiency optics efficiently optimize lumen distribution over 30%  
Easy installation, suitable for a range of pole having 60mm to 90mm diameter
- **We have a wide range : 12W ~ 80W**
- **Also Available In Hybrid Technology**



LED Wattage	PV Module	Battery	Lum. Flux	Dimension (mm)
12 W	30 W	120Wh LFP	1800 Lumen	540x400x42
15 W	40 W	154Wh LFP	2250 Lumen	655x400x42
18 W	45 W	192Wh LFP	2700 Lumen	750x400x42
24 W	50 W	231Wh LFP	3600 Lumen	945x400x42
30 W	60 W	308Wh LFP	4500 Lumen	1155x400x42
40 W	75 W	385Wh LFP	6000 Lumen	1360x400x42
50 W	100 W	576Wh LFP	7500 Lumen	1100x730x42
80 W	150 W	1024Wh LFP	12000 Lumen	1470x700x42

# TWO-IN-ONE SOLAR LED STREET-LIGHTS



## ■ Proper PVmodule Placement :

In all in one solar LED street-light, we need to set up PV module direction and tilt angles as per user requirement and not as per optimized solar power generation. In integrated solar street-lights we installed LED luminary separately and therefore we may install PV module with proper solar direction and tilt angle.

## ■ Reduced Damage/Theft:

By locating directly on the light fixture and placing the battery within, the risk of damage, theft or tampering is greatly reduced.

## ■ Compact Design:

Our design and technology implementation have been driven by our desire to eliminate the need for bulky external battery box.

## ■ Dimming:

PIR motion sensor or intelligent dimming based on battery state of charge

## ■ We have a wide range : 6W ~ 50

## ■ We are offering our range as per MNRE

## ■ Also Available In Hybrid Technology



LED Wattage	PV Module	Battery	Lum. Flux	Dimention (mm)
12 W	40 W	120Wh LFP	1800 Lumen	440 x 190 x 105
15 W	50 W	154Wh LFP	2250 Lumen	440 x 225 x 110
18 W	60 W	192Wh LFP	2700 Lumen	440 x 225 x 110
24 W	75 W	231Wh LFP	3600 Lumen	440 x 225 x 110
30 W	100 W	308Wh LFP	4500 Lumen	500 x 250 x 115
40 W	120 W	467Wh LFP	6000 Lumen	610 x 270 x 145
50 W	125 W	576Wh LFP	7500 Lumen	700 x 300 x 170
60 W	150 W	900Wh LFP	10000 Lumen	850 x 350 x 200



# NORMAL SOLAR LED STREET-LIGHTS

## Features:

- Contains matrix of high power LEDs
- Secondary Optics: Suitable optical lens
- Rated LED Life Span: 60,000 hours
- Color Rendering Index: 80
- Total Harmonics Distortion: <10%
- Power Factor: > 0.9
- Efficiency: > 85%
- Electronics: Inbuilt HF driver with APFC
- Input Voltage Range: 145 VAC-270 VAC
- LED Luminous Density: 120-150 LM/Watt
- Luminance Uniformity: > 0.3
- Color Temperature: 2700K-6500K
- Junction tMperature: <80°C
- Working Temperature: - 25°C to +70°C
- Storage Temperature: - 40°C to +70°C
- Housing: Pressure die cast aluminium alloy
- IP Grade: IP65 / IP66



LED Wattage	PV Module	Battery	Lum. Flux	Dimension (mm)
18 W	30 W	120Wh LFP	2250 Lumen	310 x 108 x 65
24 W	40 W	154Wh LFP	2700 Lumen	350 x 127 x 70
30 W	45 W	192Wh LFP	3600 Lumen	350 x 127 x 70
40 W	50 W	231Wh LFP	4500 Lumen	350 x 127 x 70
60 W	60 W	308Wh LFP	6000 Lumen	405 x 194 x 80
80 W	75 W	385Wh LFP	7500 Lumen	465 x 232 x 88
100 W	100 W	576Wh LFP	12000 Lumen	465 x 232 x 88
110 W	150 W	1024Wh LFP	22000 Lumen	410 x 233 x 67

# SOLAR HOME LIGHTING SYSTEM



- **Features:**
- Portable and aesthetic design
- Pollution-free and eco-friendly
- Field tested for over 7 years
- Compliant with performance standards
- Upgraded PWM solar charge controller
- Built in temperature compensation
- Advanced charge topology to enhance battery life
- Fast mobile charging USB port
- High lumen DC LED luminary



## MPPT CHARGE CONTROLLER



Charging Current	Battery Supported	Output
6 Ampere	LiFePo4	Constant Voltage
20 Ampere	LiFePo4	Constant Voltage



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