

# 48W Hybrid Solar Street Light

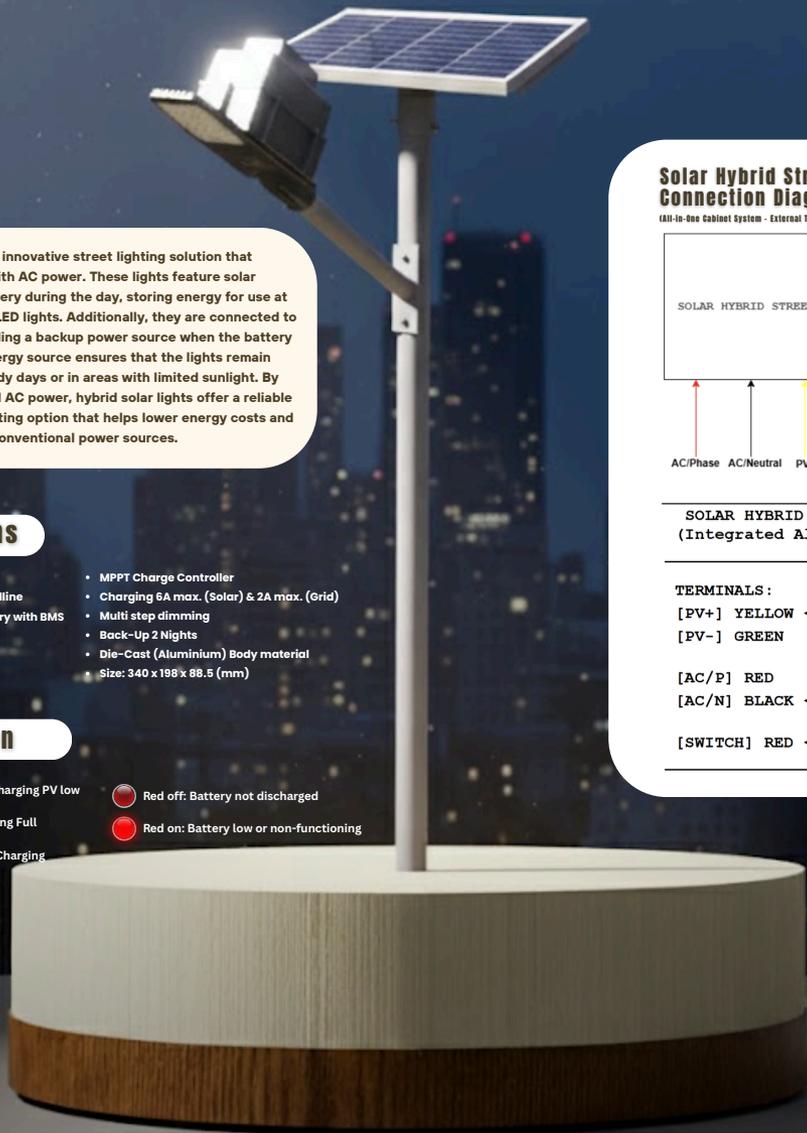
Hybrid solar lights are an innovative street lighting solution that combines solar energy with AC power. These lights feature solar panels that charge a battery during the day, storing energy for use at night to power efficient LED lights. Additionally, they are connected to the electrical grid, providing a backup power source when the battery is depleted. This dual energy source ensures that the lights remain operational even on cloudy days or in areas with limited sunlight. By leveraging both solar and AC power, hybrid solar lights offer a reliable and energy-efficient lighting option that helps lower energy costs and reduce dependence on conventional power sources.

## Specifications

- 48W LED
- 75wp SPV Panel Monocrystalline
- In-Built 12.8V 24Ah LFP Battery with BMS
- Automatic Dusk to Dawn
- High Efficiency
- Lumens 130lm-140lm/watt
- Bright LED Lights
- MPPT Charge Controller
- Charging 6A max. (Solar) & 2A max. (Grid)
- Multi step dimming
- Back-Up 2 Nights
- Die-Cast (Aluminium) Body material
- Size: 340 x 198 x 88.5 (mm)

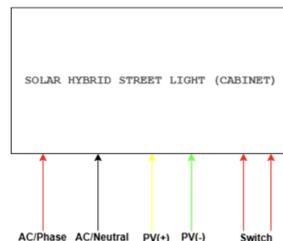
## LED indication

- Green off: Battery not charging PV low
- Green on: Battery charging Full
- Green flashing: Battery Charging
- Red off: Battery not discharged
- Red on: Battery low or non-functioning



## Solar Hybrid Street Light Connection Diagram

(All-in-One Cabinet System - External Terminals Only)



## SOLAR HYBRID STREET LIGHT (Integrated Aluminum Cabinet)

- TERMINALS :**
- [PV+] YELLOW ← Solar Panel
  - [PV-] GREEN ← Solar Panel
  - [AC/P] RED ← Grid
  - [AC/N] BLACK ← Neutral
  - [SWITCH] RED ← Manual