AURORAS

*Excellence of Sustainable Energy*



# ATHENA | SOLAR LED POST TOP LIGHT

www.auroraslighting.com



# ATHENA

## SOLAR GARDEN LIGHT

Our backyards and gardens are places of relaxation and close to our hearts, and with the same passion, we present Athena as the most advanced solar garden light for your nature-friendly living. Athena solar garden light efficiently illuminates your recreational living areas, gardens, and pathways with 360-degree beam, glare-free lighting in solar energy, and stand-alone off-grid functioning. Athena is aesthetically designed for comfortable living but elegant styling suitable for home and hospitality applications with zero operational costs.

With the built-in lighting programs, the lighting power and working time could be easily adjusted as required via the remote control. The light can also work in motion detecting mode which will help to save more energy. Athena is a suitable solar pedestrian light to work perfectly no matter in gulf countries with 5.5 hours of valid sunshine or in north Europe with 2.5 hours of valid sunshine.

Athena solar garden light is highly customizable via the remote control in terms of color temperatures, lighting power, and working time to match the garden atmosphere. Auroras's decade of experience in solar lighting technologies makes Athena the perfect choice for home users and project customers, contributing to green energy and reducing carbon footprints.

## COMPONENTS




## FEATURE

Wild animals friendly
with 2200K warm colors

4000 cycles class A
LiFePO4 battery unit

4H / 6H / 12H optional
changeable by remote

2.4G remote signals is
more stable performance

Green energy from the sun
never pay electricity bill

Sensitive PIR motion
sensor can be ON/OFF

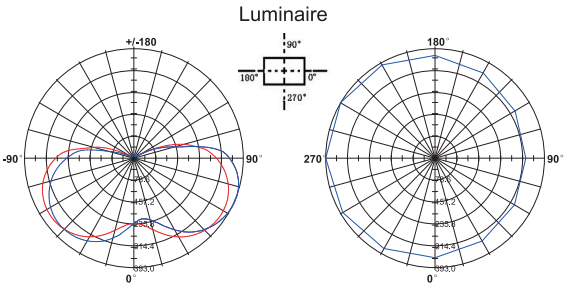
Dual CCT is changeable
between two colors

Dusk to Dawn
automatically ON/OFF

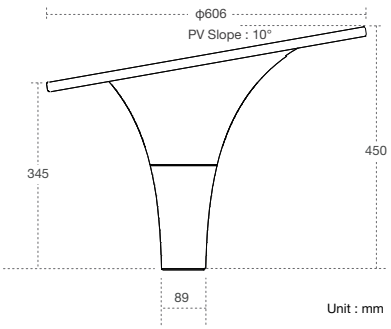
# ATHENA | AI-GL600R



## LIGHT DISTRIBUTION




## DIMENSION



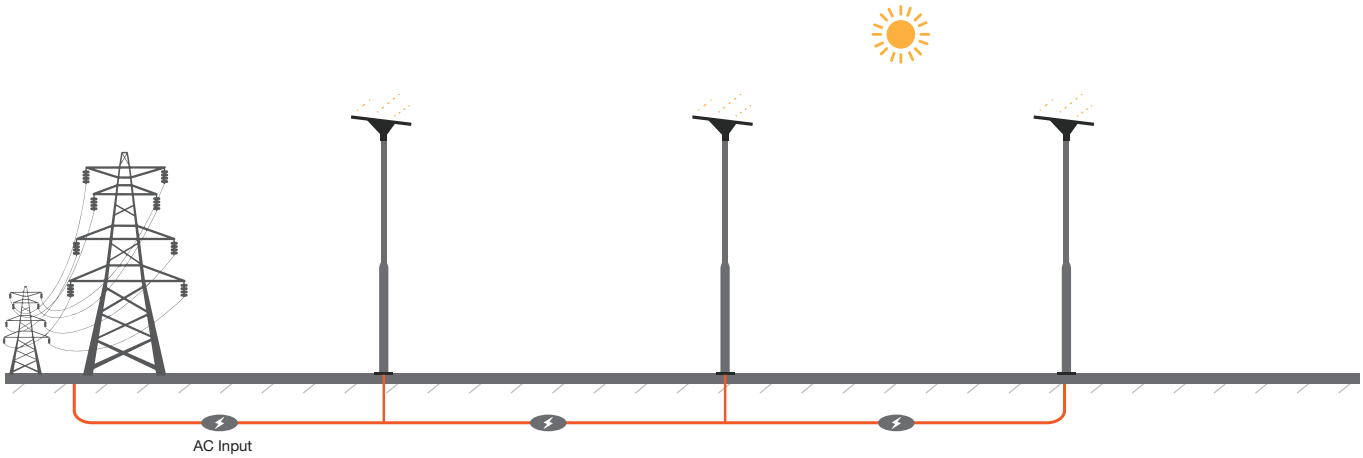

## MAIN PARAMETERS

| | | | |
|---|---|---|---|
| Model Name | ATHENA I AI-GL600R | Control Method | Automatic ON/OFF dusk to dawn |
| LED Power | 18W | Solar Charge Controller | High Efficiency 97% MPPT |
| Luminous Flux | 2,800lm max | Remote Type | 2.4G radio |
| LED Chips | SMD2835 164pcs | Operation Distance | up to 30 meters |
| CRI | Ra ≥80 | Sensor Type | Microwave sensor |
| CCT (Dual color) | 3000K+4000K/3000K+6000K | Working Temp. | -15°C~+70°C |
| LED Lifetime | >100,000 hours | Pole Diameter to Fit | 76mm |
| Solar Panel | 42W 18V MONO | Package Size | 62*62*26cm |
| Solar Panel Efficiency | >22.5% | IP & IK Rate | IP65 IK10 |
| LiFePO4 Battery | 12.8V 154WH | Certificates | CB CE ROHS IP65 LM79 LM80, MSDS |
| Battery Lifetime | 4000 cycles @ D.O.D 50% | Fixture Material | Aluminium die casting + Tempered glass |
| Charge & Discharge time | 4 hours & >24 hours | Fixture Color | RAL9011/RAL 7016 |
| Autonomy | 2-3 days in motion detection mode | Warranty | 3 Years |

# Hybrid System with 220V Grid Supply ( Optional )

The solar street light with AC85-240V AC as backup power is designed to make solar lighting smarter and more reliable under challenging conditions, especially in areas with insufficient solar radiation during certain months or during sudden periods of prolonged bad weather.

The control system will automatically switch to AC power when the battery voltage drops significantly and the battery is depleted. It will switch back to battery power once the battery voltage recovers to full capacity. This hybrid system solution ensures uninterrupted and reliable lighting service throughout the year, eliminating any concerns about power outages.




## FEATURES

**High reliability**
Dual power supply guarantee, no risk of lighting interruption.

**Energy saving**
Give priority to the use of clean energy to reduce carbon emissions.

**More economical**
Reduce power consumption and low long-term use cost.

**Flexible installation**
Suitable for areas where solar energy resources are unstable or require high brightness.

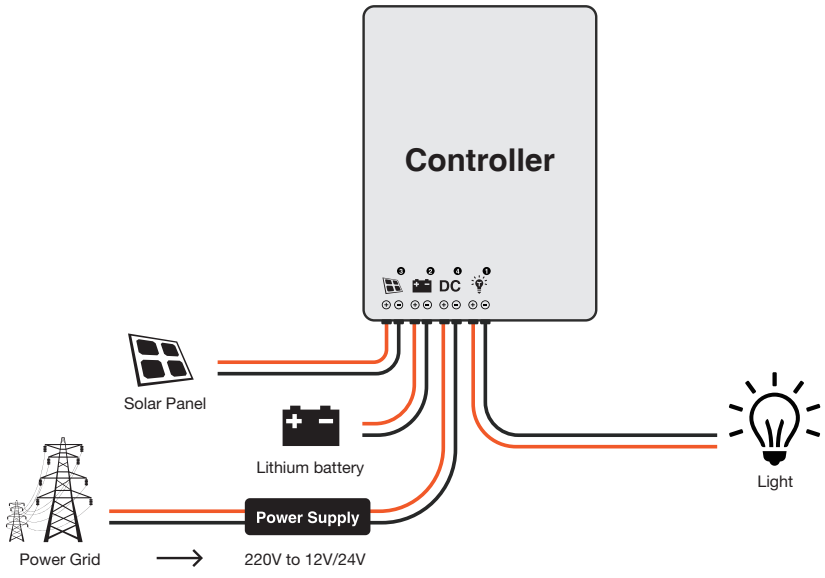
## WIRING DIAGRAM

WIRING STEPS

1. LED light
2. Battery
3. Solar Panel
4. Grid DC input

NOTE:

Conneet the controller's DC terminal to the output terminal of the 12 V/ 24 V switching power supply,and do not directly connect 220 VAC to the controller!



## What can remoe do?

### Change work mode

The default setting is continuous lighting with fixed brightness, also motion sensor function is available, The luminaire works with 30% power normally and works with 100% power when the motion sensor is triggered at people come by. Saving more power with longer battery backup.

### Change Time

Different lighting time durations are available as 4 hours, 6 hours, and 12 hours optional to meet different requirements. This helps to save more energy and extend the lifetime of light as well as more days backup.

### Change Light Color

The color is switchable between cool white 6000K ( or daylight 4000k) and warm white 3000K.  Easy to set by remote as required.  Winter with warm white and Summer time with cool white. Creating a comfortable atmosphere freely.

### Change Light Power

The power is changeable as 20%, 40%, 60%, 80%, and 100% to adjustable according to the local solar radiation to save energy, guaranteeing the lighting service is always there even in very challenging conditions.







FESTIVAL PLAZA
IKEA
ACE
ايكيا







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## SOLAR LED POST TOP LIGHT


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