



Our **Solar Post-Top's sleek design** is the perfect solution for Urban lighting. It meets a wide range of application needs from pathways, parks to compounds and so on as well as blends harmoniously into a wide variety of architectural contexts. Engineered to perform like conventional post top lighting, Solux Solar Post- Tops feature high-performing LEDs fueled by Solar energy.

NOMINAL FLUX
LIGHTING Efficiency
BATTERY Technology
ENERGY Solar panel
ELECTRONIC Controller
MECHANICAL Pole mounting
DIMENSIONS Product
Model Number
Beyond Solar retains the right to modify or change product specifications without prior notice, as part of our ongoing commitment to improvement.



Parks & Gardens



Car Parks & Rest Areas





CERTIFICATIONS > IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK8 / IP65 / CE / ULOR

Beyond Solar offers a 5 Year Limited Warranty for Post Top-Series luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers all components when installed and operated according to Beyond Solar instructions. Fixture suitable for ambient temperature from 14° to 122°. PV Panels - 20 year performance warranty Controller & Batteries: 5 years





LUMINAIRE HOUSING & LEDS

2744 LUMENS - 2300 TO 6500 K

High pressure die-cast low-copper aluminum. **Protection class** (IP65). Beyond Solar uses a high quality Polyester Powder Coating from **AKZO NOBEL**. This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for color retention for this product.

Our Luminaire is equipped with **PHILIPS LUXEON HE PLUS** High efficiency Chips offering and overall **196 Lumens per Watt efficacy**.

Our luminaire also complies with the **DARK SKY** requirement for light pollution with an **Upward lighting of 0,71%**.

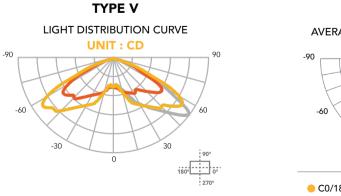


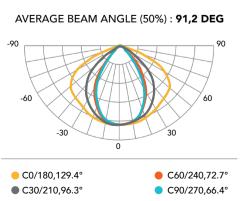
DIFFERENT OPTICS*

Our different optics will allow you to optimize the lighting results of your projects



LIGHT DISTRIBUTION CURVES





TYPE III





BATTERY LIFEPO4

+ OVER 10 YEARS LIFETIME

The POST-TOP Series is equiped with Iron Phosphate Lithium LiFePo4 battery. This technology is proved to be the best chemical technology for solar application on the market.

With a cycle life of over 3000 Cycles @ 80% DOD, the battery enjoys over 10 years lifetime.



EXTREME TEMPERATURE -10 °C TO 70 °C (-40 °C OPTIONAL)

When Standard Lithium LiFePo4 batteries enjoy a working temperature range from 14°F TO 158 °F. Beyond Solar offers as optional a new Special LIFEPO4 battery with working range of -40 °F. to 158 °F.

BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

Our batteries are equipped with electronic circuit boards for a higher protection, ensuring battery functioning optimization no matter the situation.



OVER/UNDER CURRENT
 OVERLOAD
 OVER/UNDER VOLTAGE
 OVER/UNDER CHARGE
 TEMPERATURE MANAGEMENT



COMPARISON OF DIFFERENT BATTERY TECHNOLOGIES

LIFETIME & CYCLES AT 50% DOD*

Comparisons of different battery technologies









Lead Acid

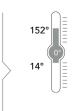
NimH 700

Lithium ION 800

Lithium LifePO4

CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS

Minimum & Maximum temperature range for Optimal charing during the day





158

Lead Acid

NimH

Lithium ION

Lithium



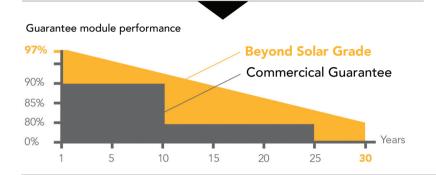
SOLAR PANEL

33 WATTS

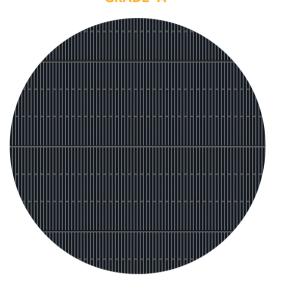
High efficiency mono-crystalline **Solar panels**. Carefully selected Grade A Solar cells. Up to 20.4% efficiency, all protected by self-cleaning **tempered glass at 30 degrees** of inclination.

They are also equipped with fully waterproof Plug and Play connectors for easy maintenance.

OUR PV PERFORMANCE GUARANTEE



Solar Cells



CONTROLLER MPPT



REMOTE CONTROL MONITORING

charging efficiency on the market up to 98%

In order to facilitate all maintenance operations and above all to diagnose any possible problem, without having to intervene mechanically on the luminaire, **Beyond Solar luminaires are equipped with a wireless diagnostic system via remote control**.



With a simple click it is possible to have real-time information such as:

- Automatic diagnosis in case of malfunction
- State of charge and battery histor
- Real Time load and solar panel energy production history
- Age of the product and installation
- Temperature and its history

*Remote control not included

FEATURES

Minimal stand-by power consumption Current consumption ≤ 10mA Intelligent battery management

3 Phases charging:

- Charge MPPTT
- Constant voltage
- Floating voltage

Intelligent LED driver Auto detecting of dusk and dawn for automatic operation, 7 lighting programs configuration.

ANTI BLACK OUT: Load adjust according to battery capacity assuring all night long lighting in any weather conditions.

The controller also acts against:

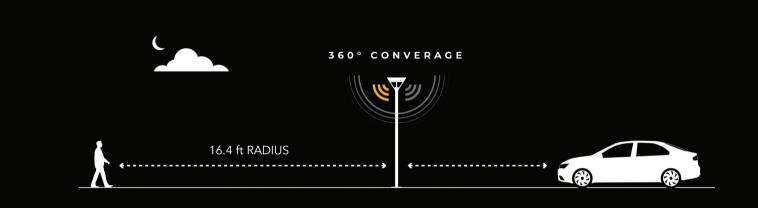
- OVERLOAD
- OVERCURRENT
- OVERTEMPERATURE
- OVERVOLTAGE / OVERLOAD
- OVERDISCHARGE





MOTION SENSOR MICROWAVE

Our Solar Post-Top comes with microwave motion sensors that detect pedestrians, cyclists and vehicles. The light level increases as they pass to ensure safety and security while respecting the environment.



OPERATION MODE & LIGHTING SCHEDULE

In addition to automatic switching on and off, you have the possibility of choosing among different modular operating modes according to the needs of the project

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Sunset		Night	Sunrise
Pr 🚺	2 h	10 h	2 h
Pr 2	2 h	12 hours	
Pr 3	2 h	10 h	2 h
Pr 4		14 h	
	☐ 100% ON ■ 30% Dim ■ Sensor 30% Dim +100% Power		

CONTACT US FOR MORE PROGRAM OPTIONS

EASY INSTALLATION

NO CABLING NO TRENCHING

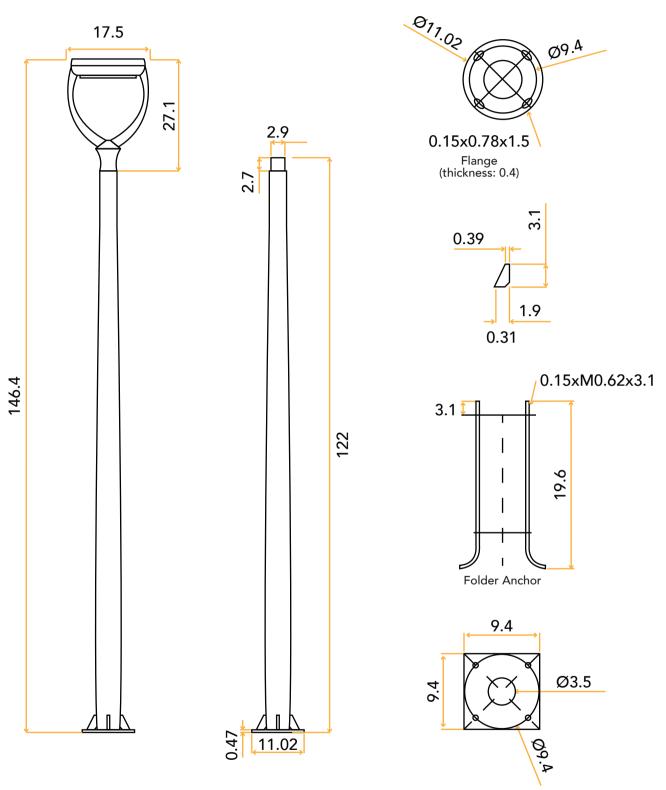
No cabling or teaching is required, **Easy to install. Insert on pole and switch ON.**







DIMENSIONS*



Note:

- 1. Unit: All dimensions are in inches
- 3. 304 Nut Washer, Basic cover: 0.05 Inch 304 stainless steel plate
- 2. Ground cage: hot dip galvanized
- 4. Welding as per GB985-88, Others as per contract requirements

