

# Solar Post Top CAPE Light



Our CAPE series enjoy a mix of modern and colonial unique design. CAPE series features high-performing LEDs fueled by solar energy and lithium LifePo4 battery featuring compact sturdy design. Our CAPE series are constructed to resist harsh environments and a lifetime of over 8 years without maintenance. Made from the highest components for the highest level of performance and durability.

- High quality solar panel made with A grade monocrystalline cells. Solar panel efficiency up to 19.4%.
- Easy installation with a well designed bracket insert on the pole, orientate and choose your tilt.
- High pressure die-cast low-copper aluminum. Protection class IP66, using highest quality polyester powder coating from AKZO NOBEL.
- Microwave motion sensor with 360 degree coverage of 24 ft radius. Invisible and integrated microwave motion sensor to the luminaire house.
- MPPT controller automatically track the maximum power point according to the weather variation. Charging rate of 16 – 30%.
- The eco-friendly and safe LifePo4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more then 10 years.
- Auto identify day/night, smart mode operation.
- Up to 150 lumens per watt and IP66 rated.
- 5 Years warranty on all components



EASY INSTALLATION  
INSERT ON THE POLE,  
ORIENTATE  
& CHOOSE YOUR TILT



# Solar Post Top CAPE Light

## Specifications

Model #	SKU #	Power	PV Type	Solar Panel	Lithium Battery	Lumens	Pole Height	IP Rating	Material
AVS-CAPE-20W	789112	20W	MONO	72W/18V	24AH 12.8V	3000 LM	10.4987 FT	IP66	ALUMINUM
AVS-CAPE-40W	789111	40W	MONO	135W/18V	49AH 12.8V	6000 LM	16.4042 FT	IP66	ALUMINUM
AVS-CAPE-2X20W	789113	2X20W	MONO	135W/18V	49AH 12.8V	2 X 3000 LM	16.4042 FT	IP66	ALUMINUM

## SAVINGS

INSTALLATION, ENERGY, UTILITY, AND MAINTENANCE.



## Correlated Color Temperature

5000K



Cool White

Neutral White

Warm White



# Solar Post Top CAPE Light

## Product Design and Benefits



**ALUMINIUM CASING.**  
Perfect for heat dissipation,  
direct airflow on the battery



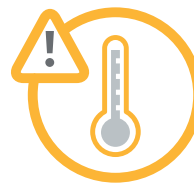
### ANTI BLACK OUT

Optimal component  
calibration and  
intelligent  
management system



### UNEQUALED LIFETIME

Selection of the  
latest and best  
component  
technology



### EXTREME TEMPERATURE

Resistant  
-4°F to 149°F



### WORLDWIDE WARRANTY

We offer a 5 years  
warranty on all the  
components



# SOLAR PATHWAY LIGHTS

## SAFE

No explosion risk

## LED FIXTURE

## BATTERY

### LITHIUM LiFePO4

The Eco-friendly and safe LiFePO4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more than 10 years.

## MPPT / SMART CONTROLLER

### 97% CHARGING EFFICIENCY

MPPT (Maximum Power Point Tracking) controller automatically track the maximum irradiation.

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## Components & Advantages

### BATTERY LITHIUM LIFEPO4

The Eco-friendly and safe LiFePO4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more than 10 years.



### BATTERY MANAGEMENT SYSTEM

Electronic Algorithm Protection and battery management system for best use of the battery capacity.



### MULTI PROTECTION



OVER  
LOAD



OVER  
CURRENT



OVER  
TEMPERATURE



OVER  
VOLTAGE



OVER  
CHARGE



OVER  
DISCHARGE

LIFEPO4

VS

LI ION

Over 4000 cycles



Over 500 cycles

No Risk of Explosion



Very High Risk  
Explosion in High  
Temperature

-10 to 75 Degree



0 to 45 Degree

Over 10 Years



24 to 32 Months



50% Cheaper  
than LiFePO4

### MPPT / SMART CONTROLLER 97% CHARGING EFFICIENCY

MPPT (Maximum Power Point Tracking) controller automatically track the maximum power point according to the weather variation.

Charging rate : 16-30%



### FEATURES

- Maximum power point tracking charging
- Auto identify day/night
- 4 levels dimming design
- Smart mode operation
- **Waterproof IP66**

IP66



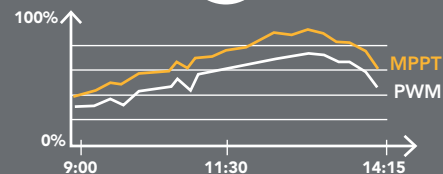
### IR REMOTE CONTROL MONITORING

- Check the state of the battery
- Check the charging history
- Settle different running time slots
- Issue diagnostic

MPPT

VS

PWM



CHARGING EFFICIENCY VS TIME



# Solar Post Top CAPE Light

## Installation

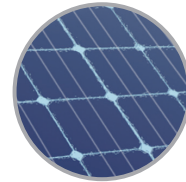
### EASY INSTALLATION INSERT ON THE POLE, ORIENTATE & CHOOSE YOUR TILT

With a well designed bracket support all the models are very easy and flexible to install on the pole. This model also allow you to choose the orientation and the tilt of the PV panel.

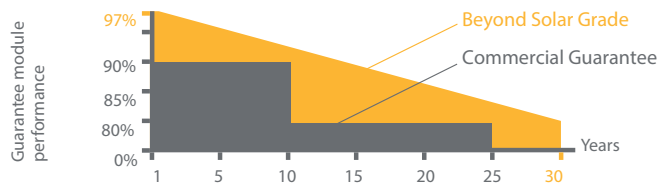


### SOLAR PANEL 72 TO 135 WATTS

Solar panels high quality monocrystalline solar cells grade A. Solar panel efficiency up to 19.4%. 5 busbars cells for a better collected current capability. Full IP67 including the junction box



### OUR PV PERFORMANCE GUARANTEE

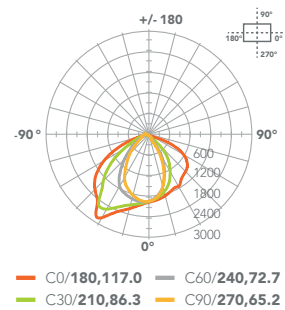


### LED LIGHTING FROM 4500 TO 12000 LUMENS

## PHILIPS

Combined with heat dissipation design, pure aluminium lamp base with seal lense for an optimal lighting and life span. Batwing lens for a perfect illumination and uniformity.

### LIGHT DISTRIBUTION CURVE UNIT : CD



### LUMINAIRE HOUSING

High pressure die-cast low-copper aluminum. Protection class IP66. We use a high quality Polyester Powder coating from AKZO NOBEL.



### MICROWAVE MOTION SENSOR

**360° coverage**, invisible and integrated to the luminaire housing. **26.2ft** wave radius.



DETECTION  
26.2ft RADIUS

### OPERATION MODE

THE PHOTOSENSOR WILL AUTOMATICALLY SWITCH ON & OFF THE LIGHT FROM DUSK TO DAWN.



4 hours



Pr

100% ON

30% DIM

Sensor\* 30% Dimming + 100% Power for 1 min when triggered