

NOW... YES,
NOW IT is technically
and economically
POSSIBLE!



**DARKSKY
APPROVED**
Reduces light pollution
Certified by DarkSky.org

Helping from now ON, with:

Sta®LED Darksky





New LED Lighting Solution

PEDESTRIAN AREAS | RURAL ROADS | BIKE LANES
BEACHES | SPORT AREAS | RESIDENTIAL AREAS...

Sta[®]LED Darksky Th02 

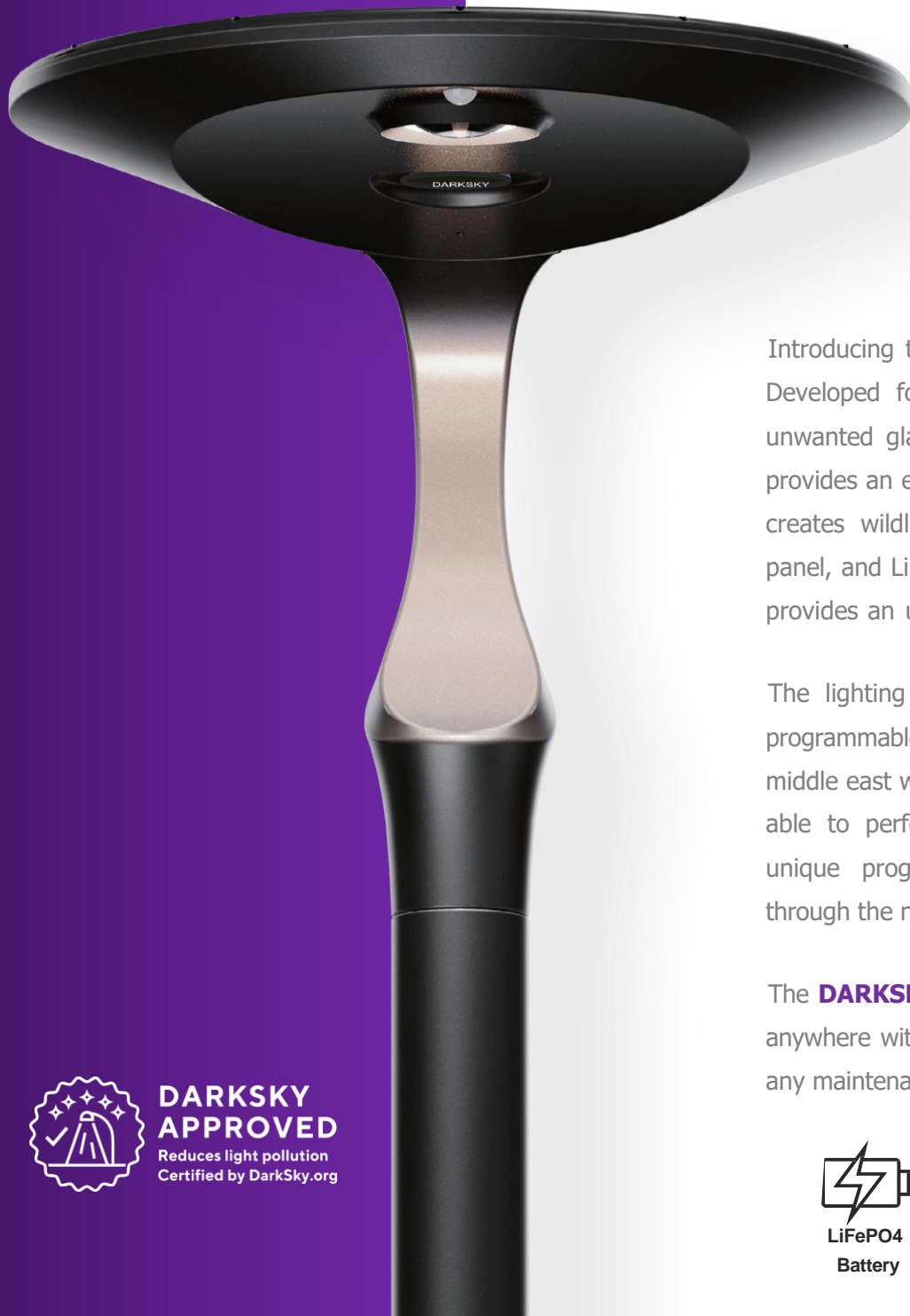
Solar Post Top Light



UNIQUE INNOVATIONS © WWW.SMART-CITY-SOLAR.COM

WORLDWIDE[®]





It's in our hands to improve everything possible!

Introducing the **DARKSKY-TH02** solar post top light, offering a new and futuristic design. Developed for our environment to protect native animals from blue-light harm and the unwanted glare of led lights. With a UWLR of <math><1\%</math> of the lighting distribution, the fitting provides an even lighting performance without light pollution. Simply put, **DARKSKY-TH02** creates wildlife-friendly lighting for our environment. The combination of a MONO solar panel, and LiFePO4 battery, and a high-charging efficiency 96% MPPT solar charge controller provides an ultra-bright output of 190lm/W with the lowest lighting power setting.

The lighting output power and working period as well as color temperature are client-programmable to ensure the fitting will perform well to your satisfaction. No matter in the middle east with plenty of sunshine or in north Europe with less sunshine, **DARKSKY-TH02** is able to perform well with constant lighting brightness and sufficient time. The custom unique programming of **DARKSKY-TH02** will ensure stable, continuous illumination through the night through all seasons.

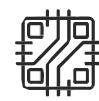
The **DARKSKY-TH02** is popular for gardens, parks, walk paths, and bicycle lanes to light up anywhere with the best lighting performance. The designed lifetime is up to 10 years without any maintenance.



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LiFePO4
Battery



Intelligent
Control



High brightness
LED beads



Biodiversity
Protection



IP65
Waterproof



Designed
Aesthetically



Remote
Control

TECHNICAL DATA:

Lighting Performance

Item number	THEMIS AI-GL590R
Luminous flux	2,800lm max
Peak LED power	18W
CRI	>80
LED type	SMD2835 84pcs
CCT range (dual color)	2200K+3000K / 3000K
LED lifetime	>100,000 hours

LiFePO4 Battery

Battery type	Brand new LifePO4 32700 6000mA 3.2V
Battery capacity	154WH 12.8V
Battery lifetime	6000 cycles @ D.O.D 80%
Charge Time	4 hours
Discharge time	>24 hours
Working temp.	-15 C ~ 70 C
Battery autonomy	2 - 3 days, 3~5 days in motion detection mode

Solar Panel

Peak Power	38W
Rated Voltage	18V
Cell Type	MONO crystallinesilicion
Cell Efficiency (%)	>22.5%
Lifetime	>20 years
Waranty	5 years

Control System

Control method	Automatic dusk to dawn
Solar charge controller	MPPT controller
Charging efficiency	>97%
Remote type	2.4G radio
Operation distance	up to 30 meters
Sensor type	PIR motion sensor
Grouping function	Yes
CCT changeable	Yes
LED power changeable	Yes
Time changeable	Yes
Working mode changeable	Yes

Fixture & Packing

Light dimension	φ590 * H550mm
Materials	Aluminium die casting + tempered glass
IP & IK Rate	IP65 IK10
Fixture color	Black RAL9011 / Anthracite grey RAL 7016
Pole diameter to fit	76mm
Package size	62*62*25cm
N.W/Light	11.80KG
G.W/Light	12.60KG
Certificates	CB CE ROHS IP65 LM79 LM80, MSDS UN3.8
Warranty	5 years

Remark:

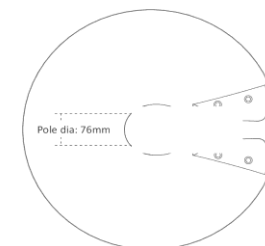
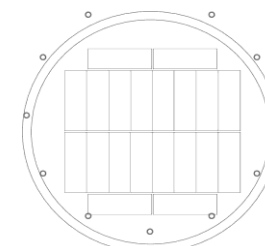
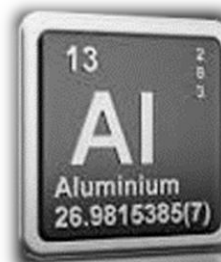
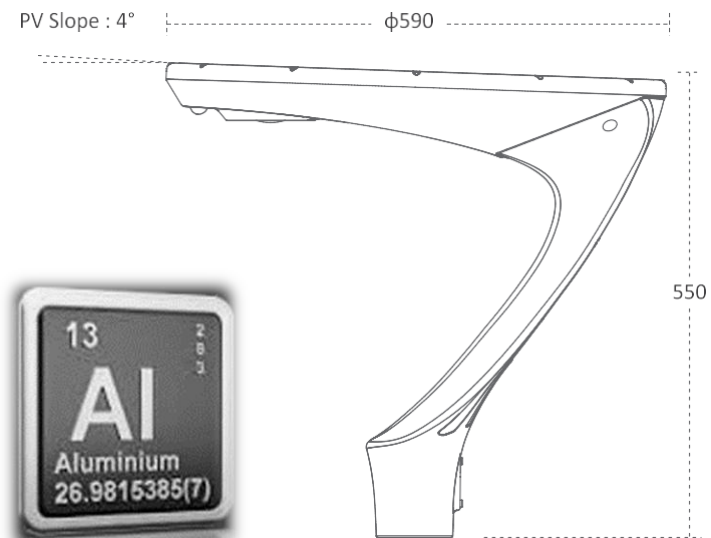
CCT of >3000 (lower) is required for IDA certification compliance.



Key Components



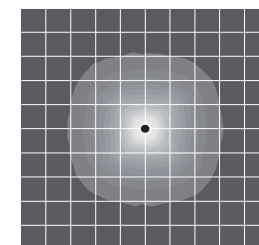
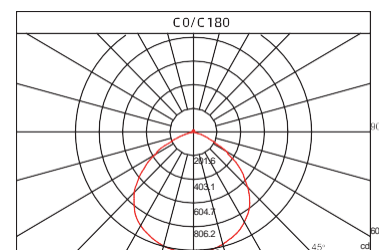
Dimensions – mm:



Color Palette for aluminium Poles



Lighting Performance



Product Feature



Wild animals friendly
without lighting pollution



MATCH

Lights can be grouped
by remote control



2.4G remote signals is
more stable performance



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



Green energy from the sun
never pay electricity bill



Dual CCT is changeable
between two colors.



6000 cycles brand new
LifePO4 battery unit



Sensitive PIR motion
sensor can be ON/OFF



ON - OFF

Dusk to Dawn
automatically ON/OFF



**WITH TWO ADDED ADVANTAGES: NO MONTHLY FEES/COSTS
AND IN CASE OF BLACKOUT = ALWAYS WORKING ON LIGHT**



A cutting-edge all-in-one, turnkey technological system:



Aluminium Pole
5 meter x 3 mm



Lighting Performance

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Peak LED power	18W
CRI	>80
CCT range (dual color)	2200K+3000K / 3000-4000
LED lifetime	>100,000 hours
Light dimension	φ 590 *H550mm
Warranty	5 years



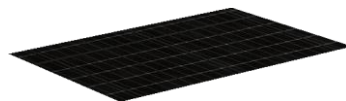
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Control System

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Solar charge controller	MPPT controller
Charging efficiency	>97%
Remote type	2.4G radio
Operation distance	up to 30 meters
Sensor type	PIR motion sensor
Adjustable function	CCT / LED power / Time / Working mode



Solar Panel

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An unbeatable option/solution in terms of advantages and PRICE!



More arguments here:

The **DARKSKY-TH02** solar street light is a smart LED street light with a monocrystalline solar panel and integrated LiFePO4 lithium battery: adjustable by remote control, including intensity, Kelvin color temperature, motion detection function, and on-time. At a maximum power of 18W, this street light emits up to 2800 lumens, thanks to its SMD3030 CRI LED chips.

The latest lithium battery meets 6,000 DOT 80% cycles, meaning a lifespan of even more than 10 years. **DARKSKY-TH02** not only protects the environment with zero energy consumption and CO² emissions, but with a UWLR of <1%, it is also bird and wildlife friendly and helps preserve dark skies.





The **DARKSKY-TH02** features a dual color system and a Kelvin temperature that can be changed by remote control, allowing these luminaires to create different atmospheres, for example, depending on the season or the time of year.



 **DarkSky Approved**
Residential Luminares

 **DarkSky Approved**
Pedestrian Comfort Luminares

 **DarkSky Approved**
Commercial Luminares

 **DarkSky Approved**
Sea Turtle Sensitive Luminares

Start helping against
LIGHT POLLUTION



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