

# Asima Sun

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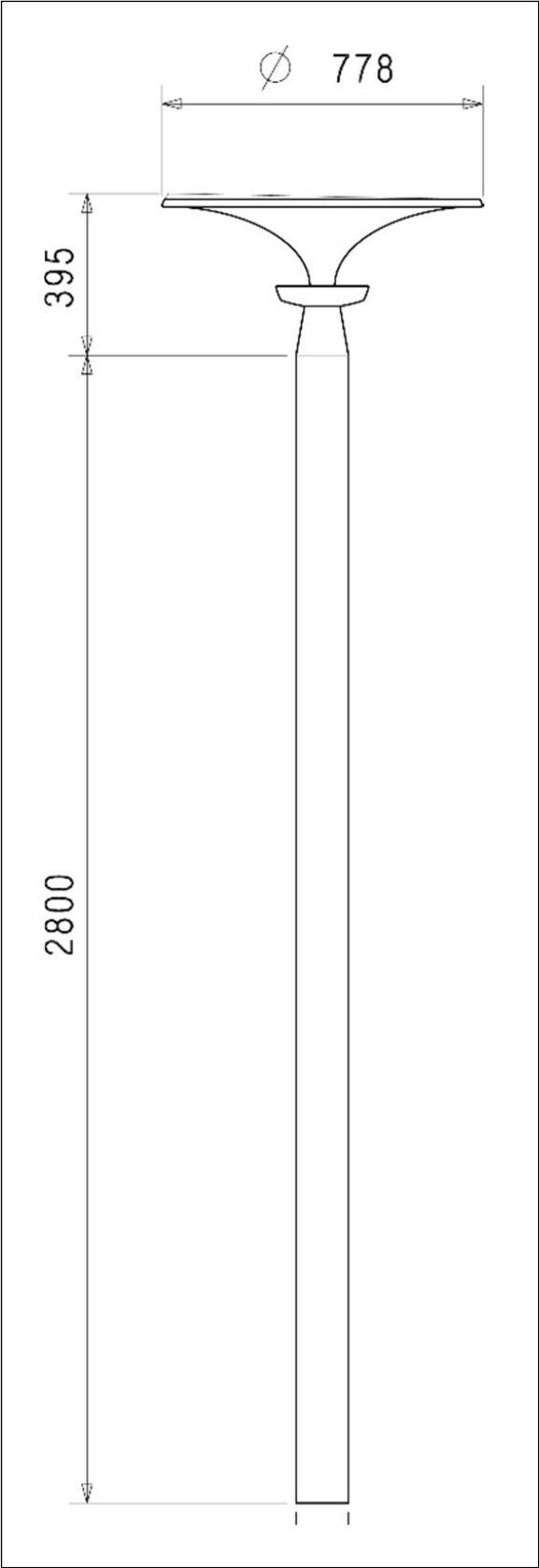
Asima Sun is one of Suncil's most innovative and aesthetic beautiful looking luminaires. It creates a warm glow suitable for parks, building entrances and waiting places for

public transport Asima Sun's stature is a reflection of nature's natural beauty where flowers facing toward a ray of sun has served as inspiration for the creation of the solar lamp.

## FEATURES:

- Stand alone solar powered LED luminaire
- Light in areas where cabling is not available or feasible
- No cabling and excavation cost
- Safe navigation in remote areas
- Sustainable outdoor lighting
- Solar cells generate power during the day
- Power is consumed during the night to light up the luminaire
- Integration of sensor and Smart City functions
- CO2 neutral
- Supports CMS (Remote Control and Management System)
- Controllable via mobile app or web-platform
- Possible to integrate a variety of sensor based technology





Luminaire	
Material	Cast aluminium
Coating	Graphite Grey: SW302G (close to RAL 9007)
	Silver Grey: MW3000
	Corten Brown: Mars 2525, YX355f
Screen	Clear polycarbonate with UV-resistant acrylate on both sides
Mounting	On pole, 60 mm top diameter
Connection	In the pole
Classification	IP66, class II
Impact resistance	IK10
Weight	8.4 kg
Wind-sweeping area	0.143 m2 (laterally)

LED	
LED type	CREE XPGBWT-B1-CACE-A0KE5
Operational life	Min 100.000 hours at a max 25° C, L80B10
Colour temperature	2700, 3000 Or 4000 Kelvin
Colour rendering	Min 80, typically 85 Ra
Colour Accuracy	3 steps SDCM
Luminous power	2700K: 1550-4400 lm, CLO
	3000K: 1650-4600 lm, CLO
	4000K: 1700-4700 lm, CLO
Luminous intensity class, 13201-2-2015	G*1
Glare index class	D6
Output ratio	74%

# Product Description

## ASIMA SUN BATTERY

The Asima Sun battery solution is based on a Nickel-Metal-Hydride environmental friendly battery (No Cadmium, Mercury or Lead). It offers a wide operating temperature range -30° C to 77° C with a typical life cycle on 4000 cycles. For the Asima Sun it comes in two sizes, 12V-130Wh and 12V-260Wh. Pending on location and environment the solution will be designed accordingly.

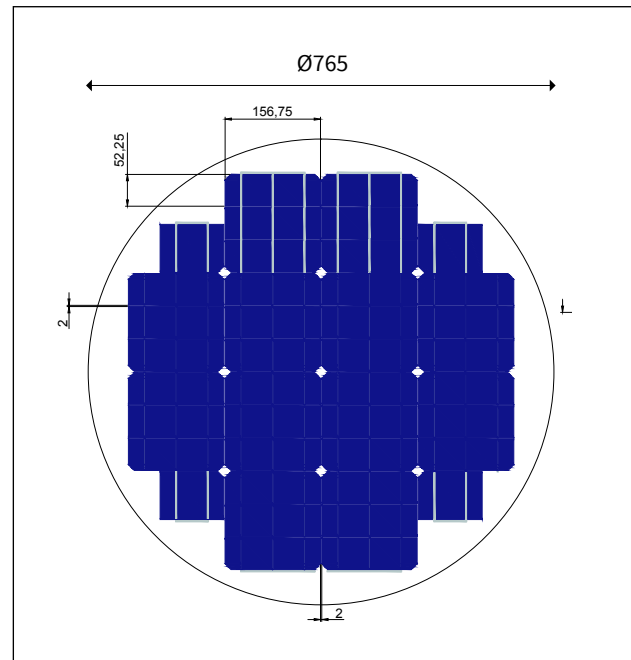
## ASIMA SUN CONTROLLER

The controller in the Asima Sun is the intelligent heart of the solution. The controller maximizes the energy available from the solar panel and uses the energy to charge a battery.

During the daytime the controller monitors the charged energy and handles charge up to 60W. When it gets dark the unit has counted the charged energy from the whole day. This energy is then used to light after sunset controlling the LED with up to 24W. Depending on what time of year and location of the Asima Sun, the night can vary in time. That is why the controller registers the dark hours from the night before, and uses this to calculate the allowed light level/intensity.

This makes the Asima Sun able to light the whole night most days of the year. The only thing that changes is the light intensity.

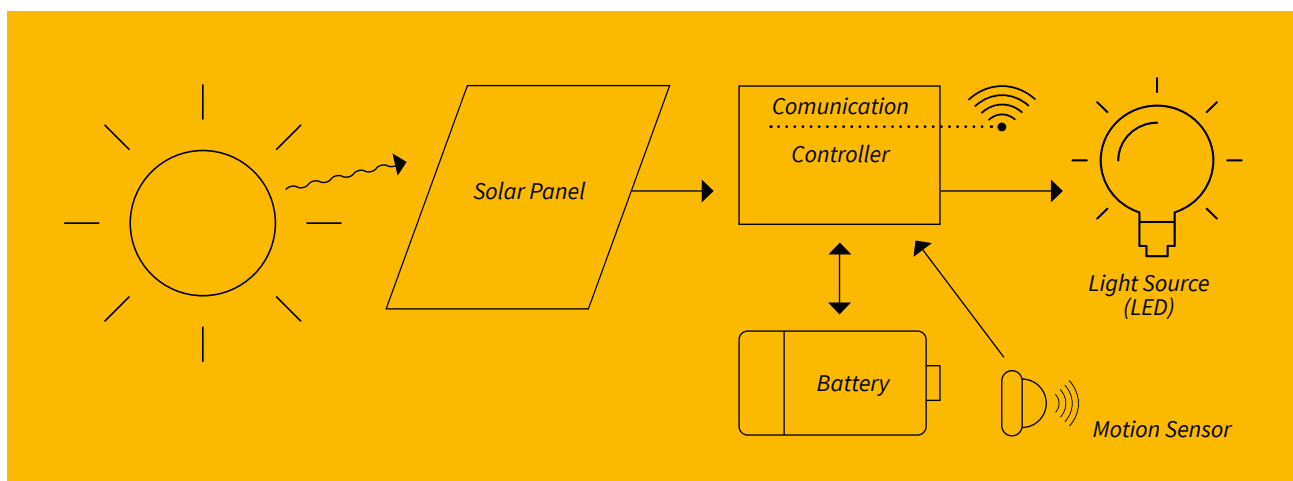
To save even more energy or create more light when needed a Suncil motion sensor can be connected, so the LEDs dims up when presence is detected.



## SOLAR PANEL 60WP MONOCRYSTALLINE

62Wp panel including 12 pcs. mono crystalline solar cells 5,16 Wp with anti-reflection coating that converts the maximum of light into energy.

The structured glass surface reduces reflection, resists wind and snow weather conditions.



## Examples of installations **in** **Denmark**



*Public beach at the west coast of Jutland, Denmark*



*Remote bus stop in Valby, Denmark*







# Inspired by Nature, Powered by Sun

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Suncil is a Danish based cleantech company providing micro solar energy to street lighting and infrastructure in EU, UAE and USA. The company is born out of the notion that humanity has a responsibility to deliver a greener, safer and smarter world to our children's generation in order to secure a sustainable world. We believe there is no time sitting around waiting for climate change to go away. We need to take matters into our own hands

and act now. That is the reason why we are working towards solving UN's 17 Sustainable World Goals as an integrated part of our business model. Climate change cannot be solved solely by a single company. Governments, institutions and businesses need to work together if our children should grow up in a lighter world. Suncil is leading the race of renewable energy, and wants you to join along. **Together, we create the future of tomorrow.**