



**DATA SHEET:**

# Asima<sup>®</sup> Sun

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Asima<sup>®</sup> Sun is one of Suncil<sup>®</sup>'s most innovative and aesthetic beautiful looking luminaries. It creates a warm glow suitable for parks, building entrances and waiting places for public transport.

**FEATURES:**

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

Ø778

395



**LUMINARIES**

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

**LED**

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

**BATTERY**

Based on a Nickel-Metal-Hydride environmental friendly battery.  
(No Cadmium, Mercury or Lead). Pending on location and environment the solution will be designed accordingly.

<b>Operating temperature range</b>	-30° C to 77° C
<b>Life cycle</b>	4000
<b>Sizes</b>	10,8V - 130Wh or 10,8V - 260Wh

**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.

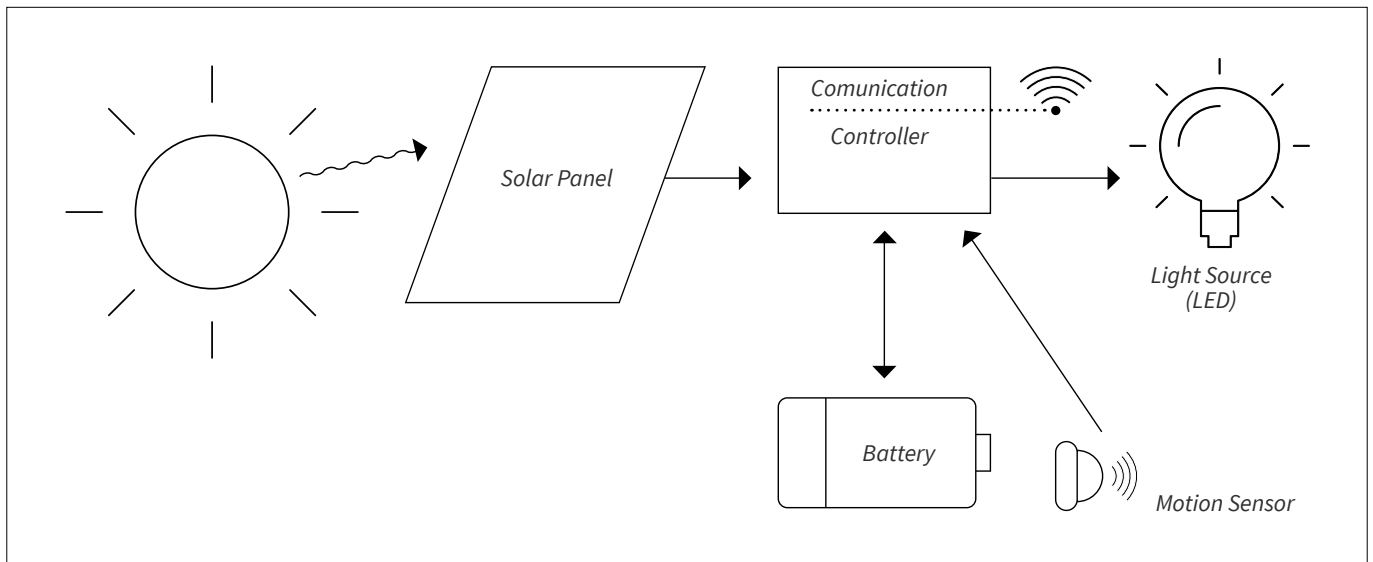
**ASIMA® SUN CONTROLLER**

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.



Please recycle to local guidelines



# Inspired by Nature, **Powered by Sun**

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Suncil® is a Danish based cleantech company, delivering smart city solar solutions for street lighting and infrastructure.

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 for sitting around, waiting for climate change to go away.

We need to take matters into our own hands and act now. This 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, so our children can grow up in a brighter world.

***Together, we create the future of tomorrow.***

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