

## Public Space Lighting Solutions

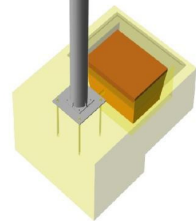
Providing good light in public spaces can reduce crime and will improve the general feeling of safety for the public. Using PV solar for public lighting brings a number of advantages:

PV solar lights are **fully autonomous**. No cables need to be laid. This means that lighting can be installed in places where otherwise it would be difficult to install lighting, bringing safety to more places

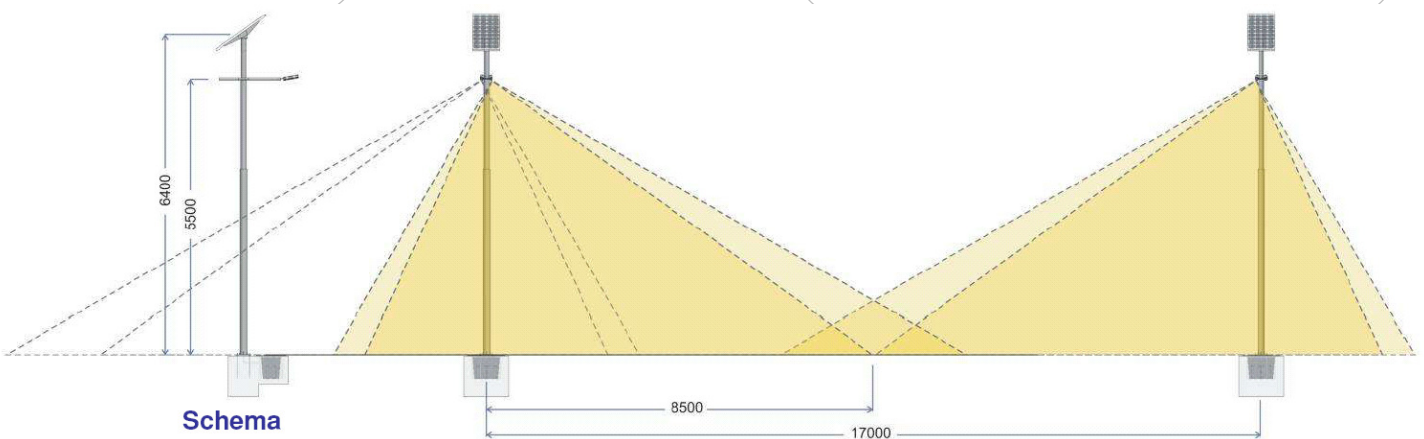
The autonomous character of PV solar lighting provides **decoupling of services**. In the event of power outages due to disasters (or other causes), the PV solar lighting will not be affected by the loss of power and continue to provide its **safety and security** function.

Because no cable feeds are required for PV solar lighting, lights can be installed with minimum invasive work to existing infrastructure (such as trenching).

Furthermore, using PV solar to generate the required energy will reduce the emissions of green house gasses and provides a **sustainable solution** to lighting public spaces.



PV Module	1 x IS-75/12 2 x IS-75/12
Module orientation	360 degrees
Module inclination	15° - 55°
Type of Lamps	LED, SOX or PL
Number of Lamps	1, 2 or 3 AlfaLED-10 per arm
Number of Arms	1 or 2
Battery position	On top under module In cabinet above ground In cabinet under ground
Head Assembly construction	Galvanised steel
Accessories	Billboard with billboard lights



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### Applications

- Security lighting
- Street lighting
- Pathway lighting
- Public toilets
- Park ablution blocks
- Bus shelters
- Information kiosks



### Theft resistant PV Solar Arrays

A common problem when using PV solar in remote public areas, is theft of solar modules. This is a problem when framed modules bolted to a roof mounted support structure are used.

For applications such public toilets, park ablution blocks, bus shelters etc., **Alphatron PV Laminates** are not bolted on a support structure but are bonded directly to a metal roof. Once applied, they give the appearance of being part of the roof cladding and the modules cannot be removed by passersby.

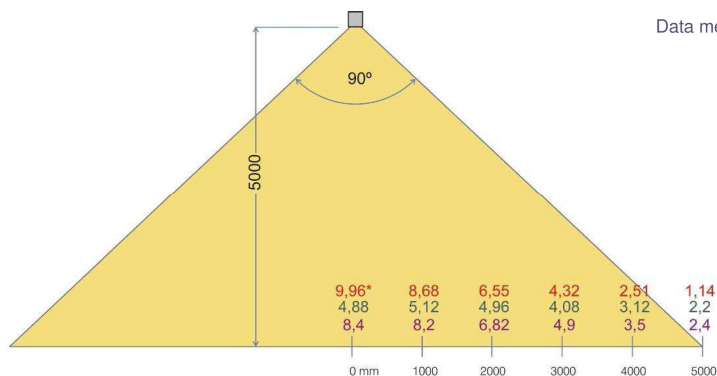


### Intelligent autonomous lighting control

Selected alphaLight solutions feature microprocessor controlled lighting control to provide autonomous control of the light. The PV array is used to detect sunrise and sunset. The system is self learning, which allows it to automatically adjust for seasonal variations. Various programs for light on/off sequences can be selected (e.g.: dusk- dawn, or 6h after sunset then 2h before sunrise etc.).



	<b>AlfaLED-10</b>	<b>AlfaSOX-26</b>	<b>PL 7/12</b>	<b>PL 11/12</b>	<b>PL 7/24</b>	<b>PL 11/24</b>
Control	Constant current	Ballast, Sine Wave	Cathode preheat			
Voltage	11-14 V	9 – 15 V	10 – 15 V		20 – 30 V	
Power	10 W	26 W	7 W	11 W	7 W	11 W
Average Luminosity	750 lum	3700 lum	> 46 lm/W after 1000h			
Equivalent Luminosity	10W LED ~ 30W LPS					
Colour Temperature	3000 – 7000 K	Yellow	4700 K (others on request)			
Life Expectancy	35000 h					
Protection	Reverse polarity, overheating	Reverse polarity, open circuit, short circuit, over current	Reverse polarity, short circuit			
Operating Temperature	-20... +50°C	0... +45°C	- 10... +50°C			
IP Rating	IP65	IP65	E27 Socket			
Dimensions	230 x 39 x 32 mm	775 x 181 x 204 mm	165 x 50 x 50 mm			
Weight	120g	5 kg	120g	130g	120g	130g



Data measured at the laboratory

- ALFA LED 10W**  
80 lumens/W (800 lumens)  
WHITE LIGHT
  - PL 36W**  
60 lumens/W (2160 lumens)  
WHITE LIGHT
  - SOX 26 W**  
130 lumens/W (3380 lumens)  
YELLOW LIGHT
- \* Luxes measurement

