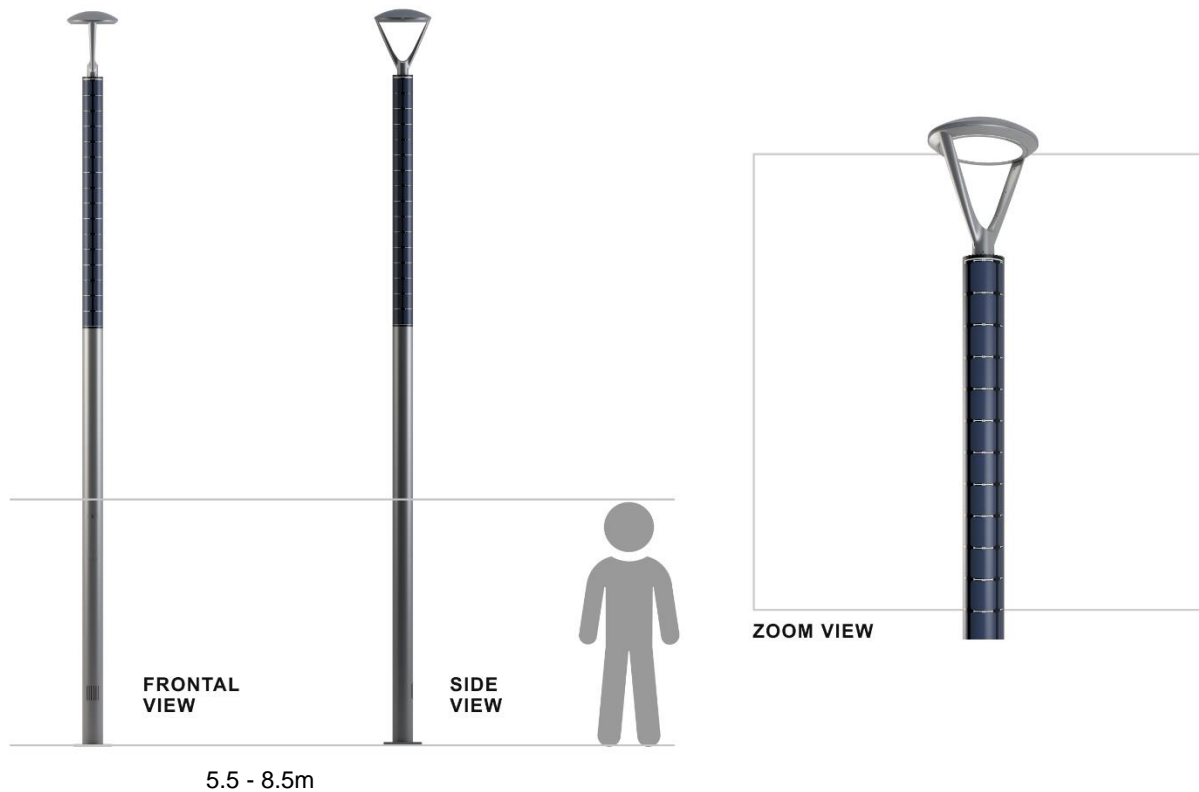


ALPHA

German Engineered
Solar Lighting

The smart and decorative, solar post top streetlight.



FEATURES

- Decorative and affordable solar post top light
- Brings light and safety in areas without electric grid
- High performance, smart and reliable
- Strong construction and closed design
- Easy to install and minimum maintenance

APPLICATIONS

- Parking lots
- Squares
- Promenades
- Parks and gardens

OPTIONS

HYBRID STREET LIGHTING - a combination of batteries and grid connectivity where the batteries serve as back-up.

SMART MONITORING - remote configuration and lighting control from anywhere via a modern web application.

CUSTOMIZATION

Solar smart street lights can be tailored to fit your specific needs: Choose the desired height, color, light distribution and output to fit your demands.

TECHNICAL SPECIFICATIONS

ALPHA

General information	
Pole Height	5.5 - 8.5 m
Diameter	170 mm
Weight	~180 kg (6.5 m)
Number of Days of Autonomy	> 3 days (luminous efficacy automatically reduced)
LED Lighting	
Power	60 Watt
Lumen Output	8,100 lm
Lumen Efficiency	~135 lm / W
Colour Temperature (CCT)	3000K (standard), other temperatures optional
Operating Temperature	-20°C to +60°C (ambient temperature)
Lifetime	L80 > 100,000 hrs
Dimming	Continuously dimmable (0-100%)
ON/OFF control	Programmable from dusk till dawn
Light Profile	Programmable / Adaptive Light Control
Motion Sensor	Optional
Warranty	5 years
Solar Module	
Type	vertical, cylindrical (Agamine's proprietary solar module)
Technology	Monocrystalline silicon, efficiency > 24%
Quantity	1 PV - 64 cells
Pole	
Material	Steel hot-dip galvanized with powder coating
Wind load	36 m/s (130 km/h); optional 40 m/s (144 km/h)
Warranty	20 years anti-corrosion C5m
Battery	
Type	Lithium LiFePO4, High temperature (65°C)
Lifetime	7,000 cycles; ~ 19 years
Warranty	3 years (5 years optional)
Position	Batteries in the pole
Grid Connection (Optional)	
Hybrid Mode	Grid charging if insufficient energy from sun
Charge Controller Input	110 V / 220 V; 47 Hz – 63 Hz; 95% Efficiency
Options	
Camera	any POE camera possible
Communication	Remote communication 4G/GPRS or ZigBee/Lora Wan
Protection and Security	
IP 66 Protection; IK09	
Glass cover for LED and PV unit to protect against sand abrasion	
Reverse polarity protection	
Low battery voltage cut-off	
Security pole door / vandal protection	