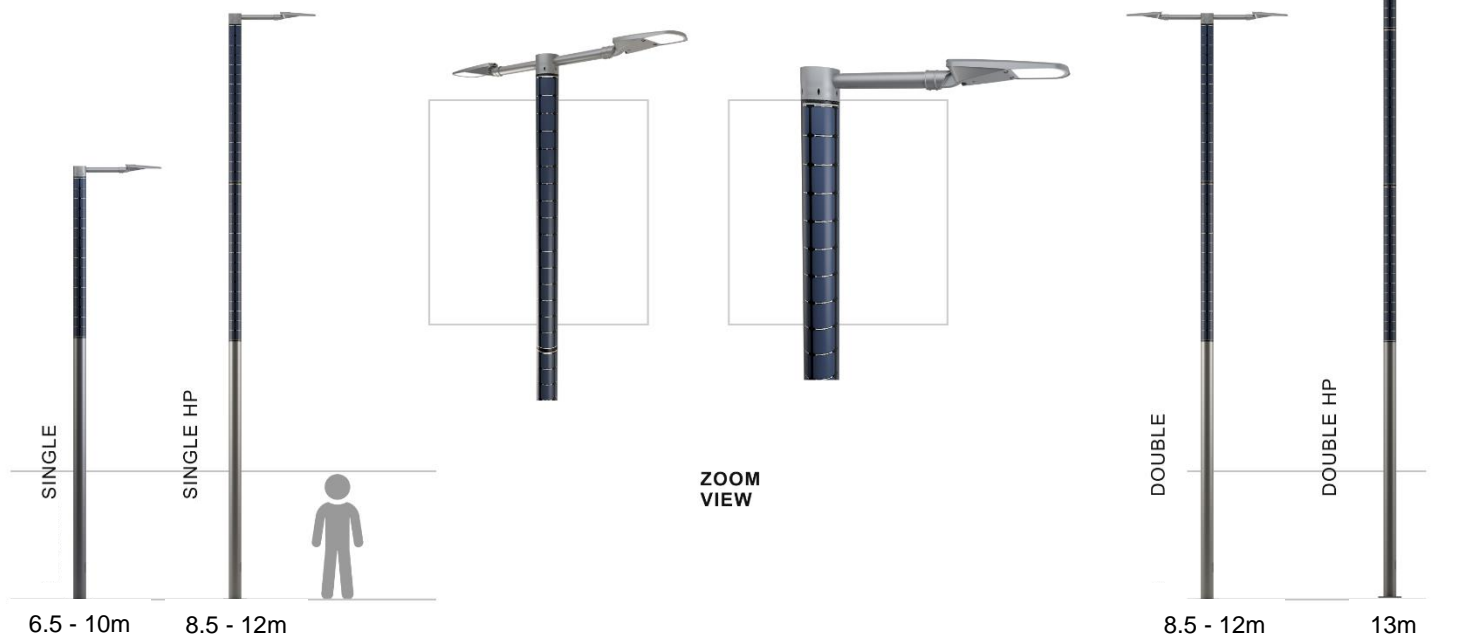


# Standard Family German Engineered Solar Lighting

The smart and compact solar streetlight at an attractive price.



## FEATURES

- High-performance street light for various lighting situations
- Fully autonomous and energy self-sufficient
- Smart, reliable and affordable
- Strong construction and closed design
- Easy to install and minimum maintenance

## APPLICATIONS

- Roads and streets
- Industrial sites
- Intersections
- Pedestrian areas
- Parking lots

## OPTIONS

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

**SOLAR POWERED CAMERA** - all types of IP cameras for wide area surveillance can be integrated.

**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, luminaire, light distribution and output to fit your demands.

# TECHNICAL SPECIFICATIONS

	Standard Single	Standard Single HP	Standard Double	Standard Double HP
<b>General information</b>				
Pole Height	6.5 - 10 m	8.5 - 12 m	8.5 - 12 m	13 m
Diameter	170 mm			
Beam Angle	-10° to 25° degree adjustable			
Weight	~160 kg (6.5 m)	~220 kg (8.5 m)	~240 kg (8.5 m)	~320 kg (13 m)
Number of Days of Autonomy	> 3 days (luminous efficacy automatically reduced)			
<b>LED Lighting</b>				
Power	60 Watt	120 Watt	2x60 Watt	2x120 Watt
Lumen Output	10,365 lm	19,454 lm	2 x 10,365 lm	2 x 19,454 lm
Lumen Efficiency	~173 lm / W	~162 lm / W	~173 lm / W	~162 lm / W
Colour Temperature (CCT)	3000K / 4000K (standard) / 5000K / 6000K			
Operating Temperature	-20°C to +60°C (ambient temperature)			
Lifetime	L80 > 100,000 hrs			
Dimming	Continuously dimmable (0-100%)			
ON/OFF control	Programmable			
Light Profile	Programmable / Adaptive Light Control			
Motion Sensor	Optional			
Warranty	5 years			
<b>Solar Module</b>				
Type	vertical, cylindrical (proprietary solar module)			
Technology	Monocrystalline silicon, efficiency > 24%			
Quantity	1 PV - 64 cells	2 PV - 128 cells	2 PV - 128 cells	4 PV - 256 cells
<b>Pole</b>				
Material	Steel hot-dip galvanized with powder coating			
Wind load	45 m/s (162 km/h); higher loads optional			
Warranty	20 years anti-corrosion C5m			
<b>Battery</b>				
Type	Lithium LiFePO4, High temperature (65°C)			
Lifetime	7,000 cycles; ~ 19 years			
Warranty	3 years (5 or 10 years optional)			
Position	Batteries in the pole			
<b>Grid Connection (Optional)</b>				
Hybrid Mode	Grid charging if insufficient energy from sun			
Charge Controller Input	110 V / 220 V; 47 Hz – 63 Hz; 95% Efficiency			
<b>Options</b>				
Camera	any POE camera possible; Wi-Fi/4G camera optional			
Communication	Remote communication 4G/GPRS or ZigBee/Lora Wan			
<b>Protection and Security</b>				
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				