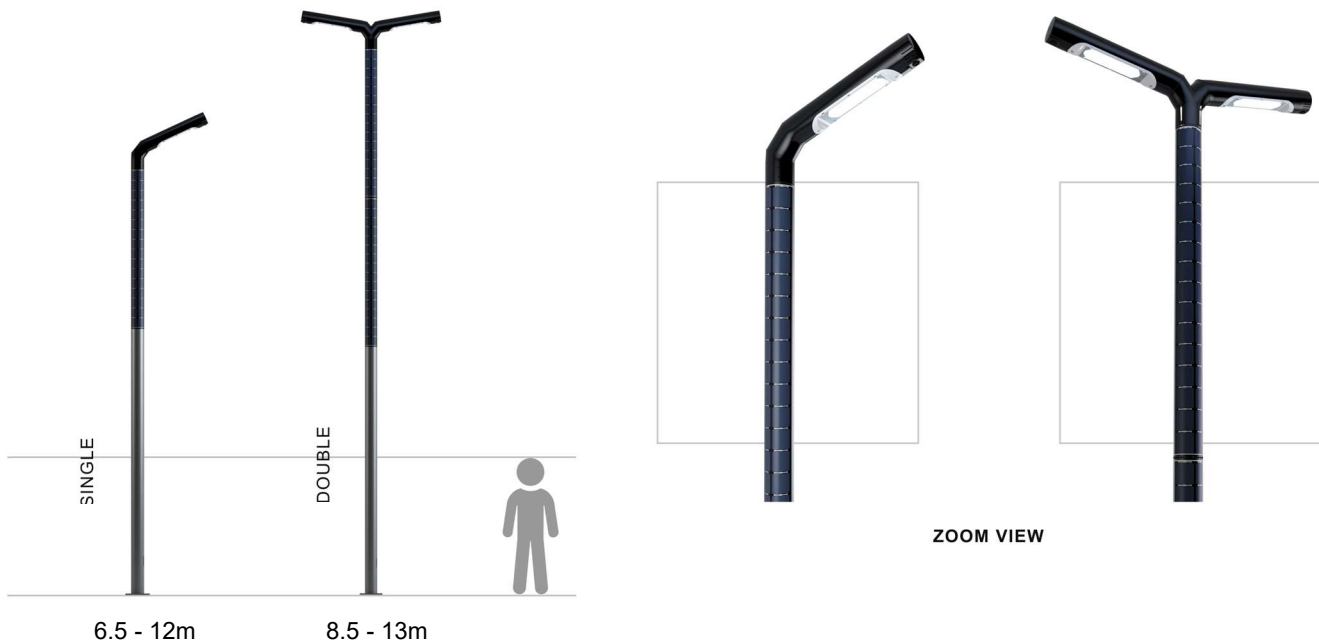


Excel Family

The smart and noble solar streetlight with high luminous output.



FEATURES

- Elegant 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

- Prestigious squares
- Parks
- Residential 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 - either invisible mounted in the lamp head or be visibly attached.

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

| | Excel Single | Excel Single HP | Excel Double | Excel Double HP |
|--|--|------------------|------------------|------------------|
| HP General information | | | | |
| Pole Height | 6.5 - 10 m | 8.5 - 12 m | 8.5 - 12 m | 13 m |
| Diameter | 180 mm | | | |
| Beam Angle | 25° degree (from 0° to 25° optional) | | | |
| Weight | ~180 kg (6.5 m) | ~240 kg (8.5 m) | ~270 kg (8.5 m) | ~350 kg (13 m) |
| Number of Days of Autonomy | > 3 days (luminous efficacy automatically reduced) | | | |
| LED Lighting | | | | |
| Power | 60 Watt | 120 Watt | 2x60 Watt | 2x120 Watt |
| Lumen Output | 10,365 lm | 21,061 lm | 2 x 10,365 lm | 2 x 21,061 lm |
| Lumen Efficiency | ~173 lm/W | ~175 lm / W | ~173 lm / W | ~175 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 | | | |
| Motion Sensor | Optional | | | |
| Warranty | 5 years | | | |
| Solar Module | | | | |
| 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 |
| Pole | | | | |
| 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 | | | |
| Battery | | | | |
| 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 | | | |
| 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; Axis 1035 recommended | | | |
| 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 | | | | |