

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				