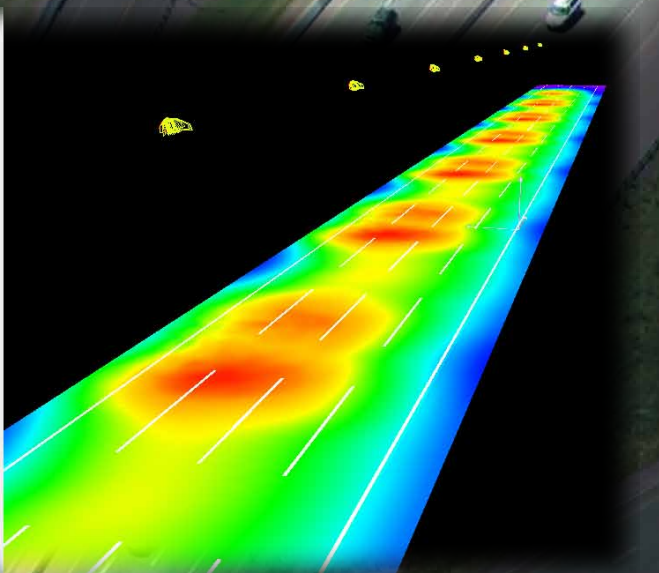
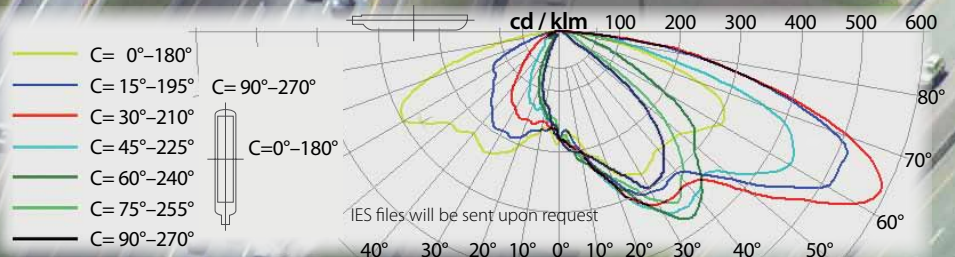


# SS100

## SOLAR LED STREET LIGHT

- DESIGNED FOR MAINTENANCE FREE LIGHTING DIFFERENT PUBLIC AND PRIVATE SITES, PARKS, GARDENS, ALLEYS, OPEN AREAS, STREETS, ROADS, QUAYS AND OTHER AREAS.
- INNOVATIVE, HIGH-TECH PRODUCT, PROVIDING EXTREMELY EVEN LIGHTING OF THE ROAD LANE FROM A LOW HEIGHT AND LARGE DISTANCE BETWEEN THE POLES.
- EXTREMELY LONG LIFESPAN, MAINTENANCE FREE, NO NEED OF BATTERY REPLACEMENT.
- INSTALLATION FRIENDLY (UPON UNPACKING YOU NEED TO FIX THE EQUIPMENT TO THE POLE ONLY).
- FACILITY OF FIXING THE ANGLE OF THE SOLAR PANEL ACCORDING TO THE DIFFERENT LATITUDES OF THE SITE.
- FACILITIES FOR INSTALLATION ON DIFFERENT TYPES OF POLES.
- FACILITY FOR INTELLIGENT (MIXED) POWER SUPPLY (SOLAR PLUS CONVENTIONAL) – OPTIONAL.



# SS100

## CHARACTERISTICS

- Automatic night/day on/off & economy late night dimming
- Autonomy in nominal mode 48 hours (4 days)
- Autonomy in Late night dimming mode 68 hours (5.6 nights):
  - Factory preset: 50 % illuminance decreasing after 4 hours till 1 h before dawn;
  - User specified: illuminance decreasing 20 ÷ 90 %;
  - dimming start 2 ÷ 8 hours;
  - dimming stop 0.5 ÷ 3 h before dawn.
- Remote control available
- Operating temperature from -35° up to +70°C
- Maximum air humidity 95 %
- Ingress protection rating IP 65

## LIGHT SOURCE

LED Power	90 W
Led driver Power Efficiency	95 %
Total Power	95 W
LED Light Output	160 lm/W
Current Efficiency	83 %
LED Luminous Flux	11 815 lm
Junction Temperature at Ta = 25°C	65°C
Thermal Efficiency	92 %
Lens Efficiency	92 %
Real Luminaire Efficacy (LER)	105 lm/W
Color Rendering Index (CRI)	65 ÷ 80
Real Lamp Luminous Flux for:	
Cool White (CRI = 65)	10 000 lm
Neutral White (CRI = 75)	9 286 lm
Warm White (CRI = 80)	7 857 lm
Zero Light Pollution	0 cd at 90°
Lifespan L70	160 000 h (36 years)

## BATTERY

Type	Sealed maintenance free, Flame retardant, Lithium technology
Capacity	200 Ah
Nominal voltage	23 V
Charging	built in intelligent charge controller (BMS & MPPT)
Lifespan	22 years (8 000 charging cycles)

## SOLAR MODULE

Type	Monocrystalline, Advanced EVA encapsulation system with triple-layer back sheet
Peak power	380 Wp (2 x 190 Wp)
Lifespan	25 years

## PARAMETERS OF THE MECHANICAL CONSTRUCTION

Realization	Monoblock structure Aluminum cast alloy + stainless steel
Dimensions (folded)	1600 x 1630 x 500 mm
Diameter of the pole at the place of fixing	from ø 70 up to ø 160 mm
Weight	106 kg

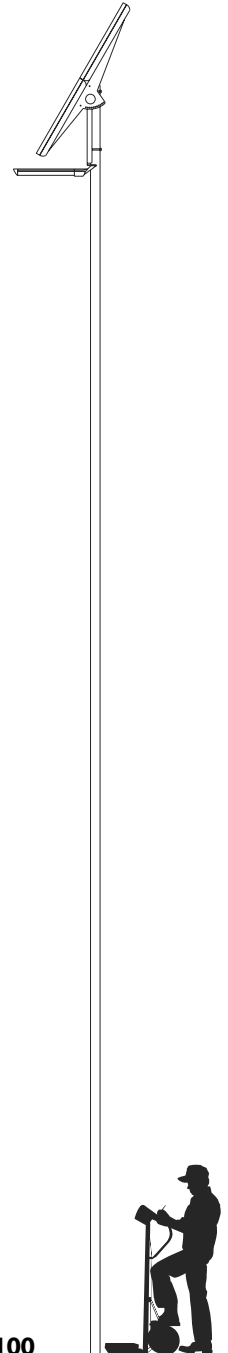
## Additional deliveries

- Zink plated metal poles
- Means of fixing the pole underground / fundament

## SS100 Application According EU Standards

4 lanes x 3.5 m ME4a streets (more than 60 km/h)	L = 27 m; H = 11 m; b = 5°
4 lanes x 3.5 m ME5 streets (less than 60 km/h)	L = 42 m; H = 11 m; b = 5°
3 lanes x 3.5 m ME4a streets (more than 60 km/h)	L = 33 m; H = 9.5 m;
3 lanes x 3.5 m ME5 streets (less than 60 km/h)	L = 50 m; H = 9.0 m;

L – Distance between the light sources (poles)  
H – Height of the light source above the ground  
b – Light source tilt angle



C E EN61000-6-3:1997, EN61000-6-1:1997  
Quality Assurance ISO 9001:2008; AQAP 2110