

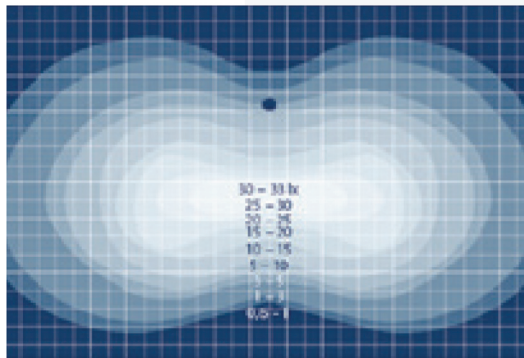
## 'SHEMS' SOLAR STREET LIGHT POLE

Outdoor residential and municipal street lighting

Our 'Shems' branded Solar Street Light is a stand-alone solar light conceived for outdoor residential and municipal lighting like promenades. Equipped with advanced LED and photovoltaic technology, The solar street light provides uniform light distribution ideal for streets, bicycle paths and pavements.

Due to its unique energy management system, the solar street light ensures high performance and reliability in all weather conditions and in the most challenging solar radiance environments with an outstanding unique design.

### Light Distribution



**Light Distribution:** Lengthwise aligned  
**Light Pole Height:** 6,80m  
**Light Pot Height:** 6,26m; 72 Led / 5 000 lm

### BENEFITS

-  REDUCED SETUP COSTS
-  LESS MAINTENANCE
-  SUSTAINABLE & ECO-FRIENDLY
-  UNIQUE DESIGN & TECHNOLOGY
-  LATEST LED TECHNOLOGY

illuminance at full operation  
 72 LEDs / 5,000 lm at full operation path-width: 6,25m

Distance (m)	Area (sqm)	Eav (lx)	Emin (lx)
10	60	33	13
15	90	27	8,4
20	120	18	5,5
25	150	15	3,1
30	180	11	1,7
40	240	8,8	0,6
50	300	6,6	0,3

Eav (lx): Average illuminance  
 Emin (lx): Minimum illuminance

illuminance in operation depending on local site conditions (average daylight available) and customer-specific lighting times.

# TECHNICAL DATA

<b>SYSTEM</b>	
Installation height	6.80 m
Light spot height	6.26 m
Diameter of light pole	180 mm
Light pole	steel, hot-dip galvanized, paint-coated
Light pole colour	RAL 9006 white aluminium (standard)(standard)
Light head colour	RAL 9005 deep black (standard)
Installation	steel plate bolted to concrete base with 4 bolts
Weight	160 kg <sup>(1)</sup>
<b>POWER LED</b>	
Illuminant	72 high-efficiency-LEDs Pixel-Fail-Over-Hopping-System
Max. power	72 Watt
Max. luminous flux	5,000 lumen
Typ. illuminance	up to 30 lx
Light distribution	length wise aligned
Energy conversion efficiency	92 %
LED - light temperature	cool-white, 6,500 Kelvin, CRI > 80 (standard) neutral-white, 4,100 Kelvin (optional); warm-white, 3,100 Kelvin (optional)
Typ. service life (part load)	> 75.000 hrs / heures
Illumination area	typ. 250 – 468 m <sup>2</sup>
<b>POWER TUBE</b>	
Height PV-module	2.20 m
Diameter PV-module	180 mm
PV-Technology	mono crystalline silicon solar cells siliciums
Number of PV-cells	64 pcs
Nominal power output	218 Wp
<b>POWER CONTROL</b>	
Programmable microcontroller	remote control
Dynamic light profile	consumer-specific
Motion detector	optional
Capacity of battery	12V/72 Ah pole mounted
Technology of battery	AMG technology (lead-acid)
<b>STANDARDS COMPLIANCE</b>	
Illumination	according to EN13201
Degree of protection PV-module	IK06
Certification light pole	EN 40-5, EN 40-3-1,ISO 1461 <sup>(1)</sup>
Certification electronics	IP65
EMV	EN 55015, EN 61547
PV-standard	EN 61215 (adapted)
Temperature range	-20°C bis + 55°C (pole-mounted)
CE-certification	Yes

1) Variations through automated production and materials used.

Technical details may change due to ongoing development improvements