



HIGH-POWER SOLAR STREET LIGHT



# EverGen

MADE IN FRANCE



l'intelligence  
solaire **solar**  
intelligence

# EverGen

WARRANTY  
6 YEARS

MADE IN FRANCE

EMBEDDED  
INTELLIGENCEUNMATCHED  
SERVICE CONTINUITYGROUPED  
DETECTION

DATA SUPERVISION

EverGen is a **modular, kit-based solution** designed to adapt to a wide variety of environments and use cases.

Available with **two solar panel sizes** (300 or 400 Wp) and **several battery capacities** (from 480 to 2,534 Wh), the system allows for fully customized energy sizing.

Fully configurable and **loaded with options**—such as group motion detection, external device power supply, and a solar/grid hybrid mode—EverGen delivers high-performance lighting for a **wide range of applications** major and secondary roads, avenues, boulevards, and large parking lots.

The product ships as a kit and can be assembled easily on-site in **under 30 minutes**.



1

## TILTABLE SOLAR PANELS

Adjustable to 15°, 30°, or 50°  
N-Type TOPCon cells for maximum energy efficiency  
and a lifespan of over 30 years

2

## NiMH or LiFePO<sub>4</sub> HIGH-PERFORMANCE BATTERY

Resistant to extreme conditions  
Long lifespan (12 years on average)  
Optimized thermal management

3

## SUNNACORE

Electronic board with Bluetooth connection  
Intelligent energy management system maximizing  
battery lifespan

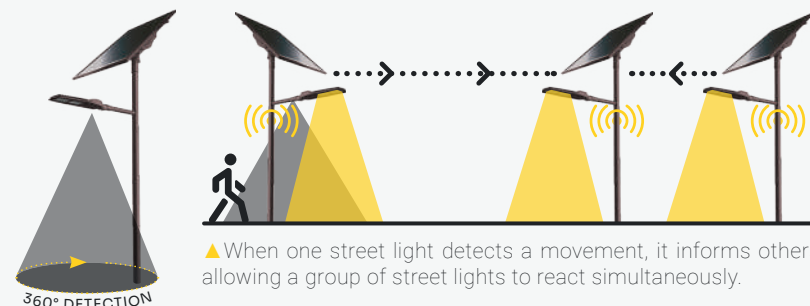
4

## HIGH-EFFICIENCY LED MODULES

Up to 210 lm/W  
Compatible with the most advanced light fixtures on the  
market.

## GROUPED DETECTION *(optional)*

Street lights equipped with grouped detection contain sensors and transmitters allowing them to communicate with neighboring street lights.



▲ When one street light detects a movement, it informs others, allowing a group of street lights to react simultaneously.

## EXTERNAL ELECTRICAL EQUIPMENT & HYBRID POWER

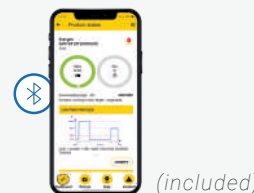


## Rise On

Solar lighting can be used to power an external electrical device (camera, sensors...)

The perfect union between renewable solar energy and an electrical grid source to guarantee reliability and durability.

## DATA SUPERVISION



### ☑ LOCAL SUNNAPP

Install your street lights and interact with your products via long-range Bluetooth.

### ☑ REMOTE SUNNA CLOUD

Monitor your street lights in real-time and perform preventive or curative maintenance on your products.



Installation and  
commissioning support



Tracking and  
performance history

+



Registration and management  
of the park



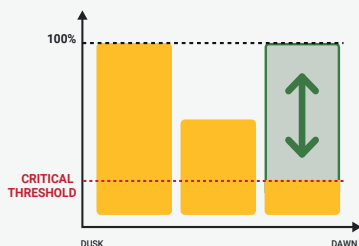
Management of lighting profiles

## ■ SMART ENERGY MANAGEMENT



Integrated within the EverGen range, the **SunnaCore** features **advanced autonomy** management to **ensure sufficient battery energy for optimal service 365 nights a year**, even during periods of low solar irradiation.

## ■ CUSTOMIZED LIGHTING PROFILES

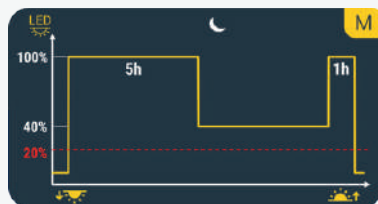


Our lighting profiles are optimized based on daily sunlight levels.

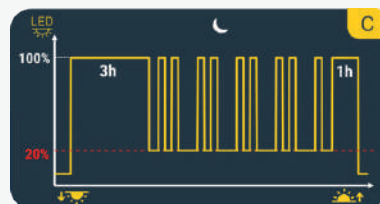
By analyzing recent weather data and the battery's available energy, the system automatically adjusts light intensity to prevent outages and ensure maximum lighting availability.

### ☑ SAMPLE LIGHTING PROFILES

Thanks to the embedded intelligence of our **SunnaCore EMS**, our lighting systems offer **customized lighting profiles** tailored to the specific needs of each project. The system automatically regulates light output to prevent outages and ensure optimal availability. It also enables the creation of **motion-sensing profiles**, further maximizing the streetlight's autonomy.



Example of a standard scenario  
100% (5 h) / 40% / 100% (1 h)



Example of a motion-detection scenario  
100% (3 h) / 20% + detection 100% / 100% (1 h)

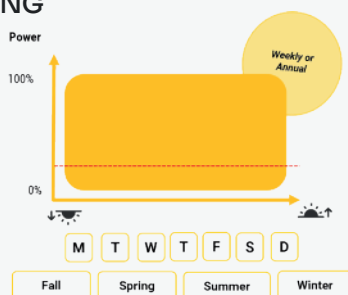
### ☑ WEEKLY OR ANNUAL SCHEDULING

Two programming modes are also available (non-cumulative), allowing lighting profiles to be adjusted based on the project's timeline:

**Weekly:** up to 2 profiles per week.

or

**Annual:** up to 2 profiles per year.



### GENERAL

Structure material	Pre-galvanized and zinc powder-coated steel
Effective Projected Area	300 Wp : 0.54 m² (5.81 ft²) ; 15° / 1.04 m² (11.19 ft²) ; 30° / 1.59 m² (17.11 ft²) ; 50° 400 Wp : 0.71 m² (7.64 ft²) ; 15° / 1.37 m² (14.74 ft²) ; 30° / 2.10 m² (22.60 ft²) ; 50°
Recommended pole	Galvanized steel, Top mounting: Ø89 mm (3.5 in)
Weight (excluding pole)	Starting at 80 kg (176.37 lbs) (depending on PV and battery power)
Options	Remote supervision / Motion sensor (individual and group) / Hybrid mode (solar/grid) / External device power supply
Carbon footprint	94.13 kg CO2 eq
System warranty	6 years included (can be extended up to 10 years)
Certificates	CE, EN60598, EN61547, FCC, RoHS, RED

### SOLAR PANELS

Technology	Photovoltaic module (monocrystalline N-Type TOPCon cells)
Power	300 Wp, 400 Wp
Electrical characteristics (per panel)	300 Wp: VOC = 47.26 V / VMP = 41.65 V / ISC = 7.76 A / IMP = 7.42 A / Cells number = 66 400 Wp: VOC = 47.26 V / VMP = 41.65 V / ISC = 10.34 A / IMP = 9.89 A / Cells number = 66
Tilt angle	15°, 30°, 50°
Structure	Anodized aluminum alloy
Lifespan	> 30 years at 82% of initial power
Recyclability rate	Up to 96%

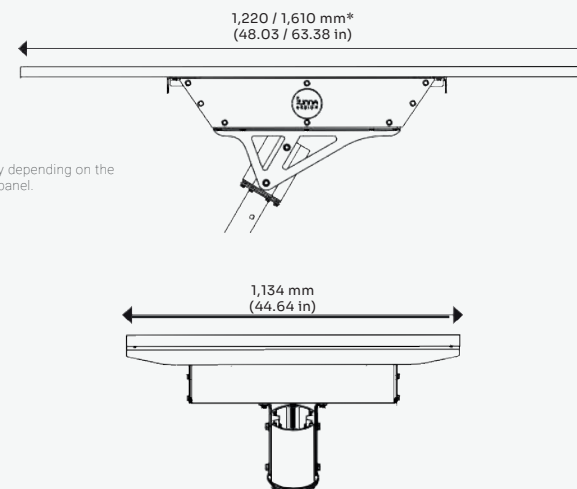
### BATTERY

	LiFePO4	NiMH
Technology		
Voltage	25.6 V	24 V
Capacity	676 Wh, 845 Wh, 1,105 Wh, 1,352 Wh, 1,775 Wh, 2,028 Wh, 2,534 Wh	480 Wh, 960 Wh
Operating temperature range	-20°C to +60°C (-4°F / +140°F)	-40°C to +85°C (-40°F / +185°F)
Lifespan	> 10 years	> 10 years
Recyclability rate	Up to 65%	Up to 95%

### SUNNACORE EMS

LED output power	20 at 150 W (or 2 x 80 W)
Operating temperature range	-40°C to +70°C (-40°F / +158°F)
Charging technology	Integrated MPPT
Lifespan	> 10 years
Recyclability rate	100% for precious and base metals

## ■ DIMENSIONS



\*Dimensions vary depending on the size of the solar panel.

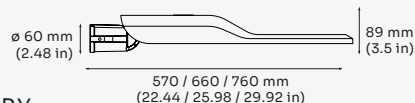
## ELEKTRA



### TECHNICAL SPECIFICATIONS

LED module	High-efficiency LEDs - Geometry according to Zhaga (Book 15)
Luminous flux	4,200 to 29,600 lm
Power	60 W, 80 W, 150 W
Lighting efficacy	Up to 210 lm/W after optical losses
Color temperatures	Amber (< 2% blue light), 2200 K, 2700 K, 3000 K, 4000 K
Options	Backlight shield
Material	Cast aluminum luminaire with tempered protective glass
Weight	Elektra S: 4.8 kg (10.58 lbs) / Elektra M: 7.9 kg (15.43 lbs) / Elektra L: 9.2 kg (19.84 lbs)
Lifespan	Over 100,000 hours (L80B50)
Mechanical resistance	IK10, IP66, corrosion resistance 1,500 hours according to ISO 9227
Recyclability rate	Up to 95%
Certificates	ENEC, ENEC+, Dark Sky, EN 60598, CEE

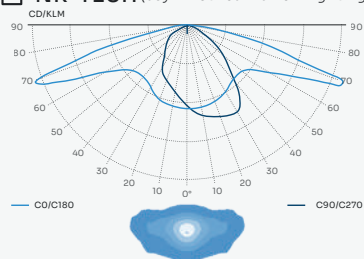
### DIMENSIONS



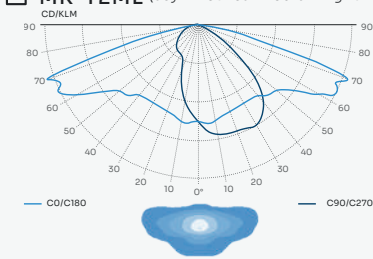
### PHOTOMETRY

0% light emitted upwards with all optics (ULOR = 0).  
Optional backlight shield available. IES / LDT files available on request.

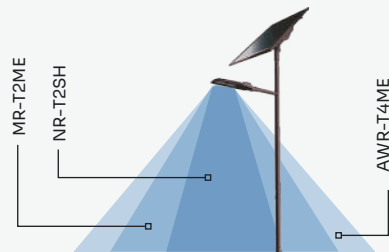
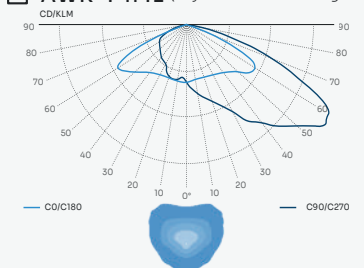
#### NR-T2SH (asymmetrical narrow lighting)



#### MR-T2ME (asymmetrical medium lighting)

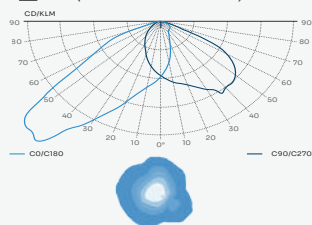


#### AWR-T4ME (asymmetrical wide lighting)

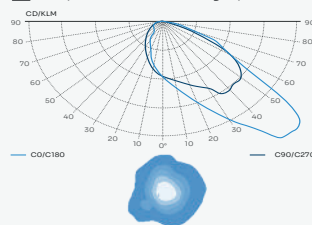


Upon request

#### CL (crosswalk on the left)



#### CR (crosswalk on the right)



## NANO



### TECHNICAL SPECIFICATIONS

LED module	High efficiency LED - Multichip Technology (IP66)
Luminous flux	3,320 to 26,560 lm
Power	40 W, 80 W, 150 W
Lighting efficacy	Up to 165 lm/W after optical losses
Color temperatures	2200 K, 2700 K, 3000 K, 4000 K
Options	Backlight shield / Motion sensor (individual or grouped)
Material	Aluminium
Weight	Nano S: 1.5 kg (2.20 lbs) / Nano M: 2.8 kg (4.41 lbs) / Nano L: 5 kg (11.02 lbs)
Lifespan	Over 100,000 hours (L80B50)
Mechanical resistance	IK10, IP66
Recyclability rate	Up to 95%
Certificates	EN 60598, CEE, ENEC

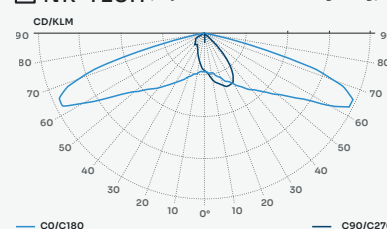
### DIMENSIONS



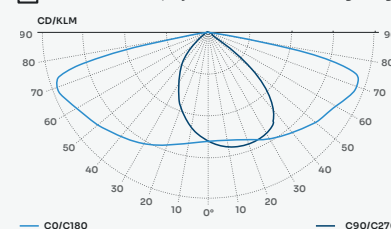
### PHOTOMETRY

Optional backlight shield available. IES / LDT files available on request.

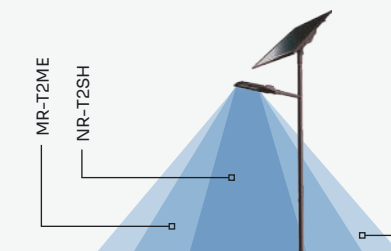
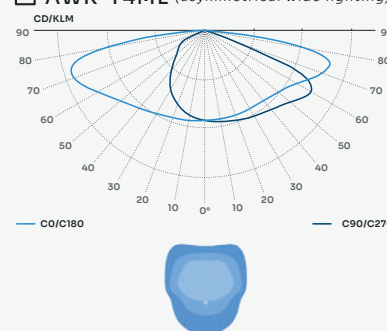
#### NR-T2SH (asymmetrical narrow lighting)



#### MR-T2ME (asymmetrical medium lighting)



#### AWR-T4ME (asymmetrical wide lighting)





SOLAR GENERATOR CODIFICATION

MODEL	SELLER	WIND	PRODUCT TYPE	COLOR (RAL)	TREATMENT	PV PANEL TILT	TENON ADAPTER								
E2	EverGen V2	SD	Sunna Design	X	Standard	S	Single	8019	Brown Grey	C3H	C3H	15	15° tilt	EU	Universal
								9010	White	XXX	Without treatment	30	30° tilt	US	US version
								9005	Black upon request			50	50° tilt		

PV SIZE		BATTERY TECH.		BATTERY CAPACITY		LED DRIVER		FIXTURE PROVISION		MOTION SENSOR		REMOTE MONITORING		OPTION	
300	300 Wp	L	LiFePO4	0676	676 Wh	LV	32-50 Vdc	X	None	X	No	X	No	XX	No
400	400 Wp			0845	845 Wh			S	Single	M	Yes	C	Yes	HY	Hybrid
				1105	1105 Wh			D	Dual					RO	Rise-On
				1352	1352 Wh										
				1775	1775 Wh										
				2028	2028 Wh										
					2534			2534 Wh							
				N	NiMH			0480	480 Wh						
		0960	960 Wh												

FIXTURES CODIFICATION

FIXTURE CODE		MOTION DETECTOR		CCT		OPTICS		BACKLIGHT SHIELD		RAL	
RE01C	Elektra	0	Without	NS	Amber	A	AWR-T4ME	0	Without	9005	Black
				22	2200 K	M	MR-T2ME	1	With		
				27	2700 K	N	NR-T2SH				
				30	3000 K	R	Crossing R				
				40	4000 K	L	Crossing L				
RU00C	Nano	0	Without	22	2200 K	A	AWR-T4ME	0	Without	9010	White
				27	2700 K	M	MR-T2ME	1	With	8019	Brown grey
				30	3000 K	N	NR-T2SH			9005	Black
				40	4000 K						

COLORS



RAL 8019  
Grey brown



RAL 9010  
White

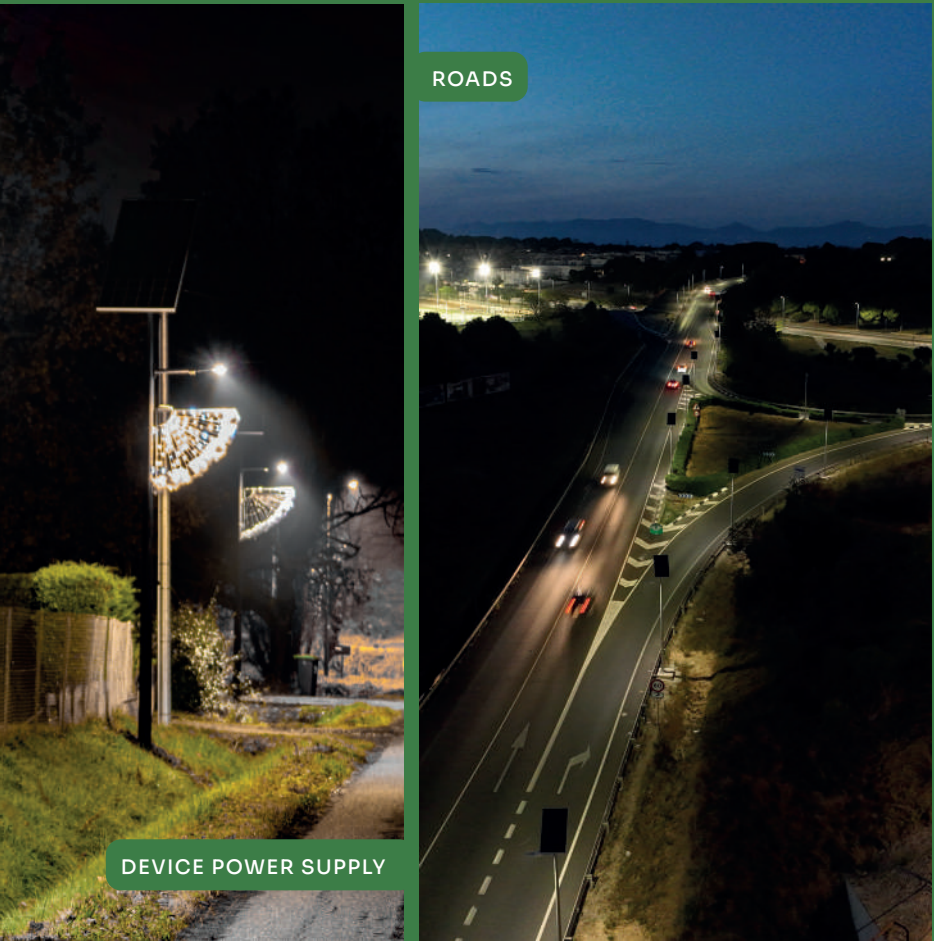


RAL 9005  
Black (upon request)

PARKING LOT



ROADS



DEVICE POWER SUPPLY



2025-04



17 rue du Commandant Charcot  
33290 Blanquefort - FRANCE



[contact@sunna-design.com](mailto:contact@sunna-design.com)



[sunna-design.com](https://sunna-design.com)



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