

LED SOLAR STREET LIGHT

ELITE II



TOGETHER, FOR A BRIGHTER FUTURE



UNILUMIN GROUP CO., LTD

HQ Address: 112 Yongfu Rd., Qiaotou Village, Fuyong Town, Baoan District, Shenzhen 518103 China
Manufacturing Base: Unilumin Industrial Park, 6 North Lanjing Road Pingshan District, Shenzhen, China
TEL: +86-0755-29918999 | **FAX:** +86-0755-29912092 | **E-mail:** ledlighting@unilumin.com
www.unilumin.com | **www.unilumin-lighting.com**

The product designs and specifications are subject to change without prior notice.
 All rights reserved, copy is prohibited without the permission of Unilumin Group Co., Ltd.



Official Website



Facebook



Twitter



LinkedIn

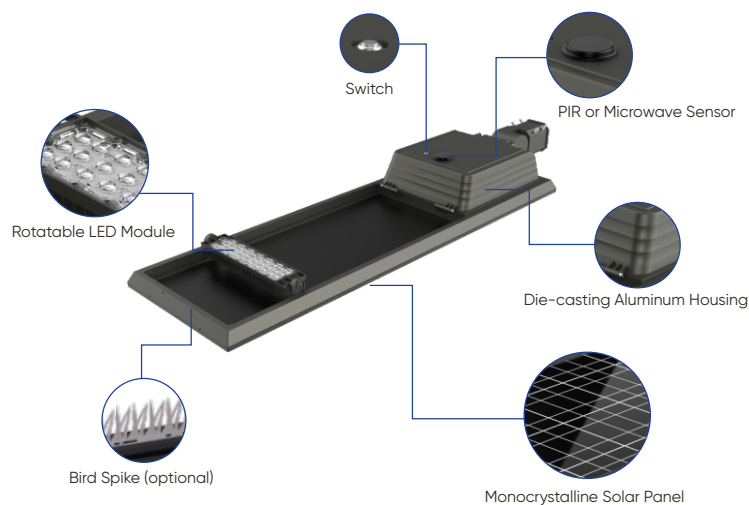


Instagram

Published: December 2023

UNILUMIN GROUP CO., LTD

Choose Solar Light for a Bright, Sustainable World



Smart Lighting Control

Best-in-class Lighting Performance

Long Working Time

Lower Carbon Emissions

Less Maintenance

Solar and Hybrid Options



SunMaster ELite II Series

ELite II is a professional all-in-one solar street light luminaire designed for a variety of outdoor off-grid lighting applications. Built from die-casting aluminum housing, ELite II is robust and durable. With up to 200lm/W efficacy, ELite II consumes less energy to produce high output lumens. ELite II is a highly reliable solar luminaire with quality solar components, LEDs and BMS design. It maximizes the usability thanks to its precise optics and structural designs. Coupled with motion sensor, ELite II offers 2 to 3 days autonomy under factory default lighting mode.

Features & Benefits

1. Post top and side entry mounting way options
2. -90° ~ $+70^{\circ}$ Mounting angel adjustable
3. $\pm 75^{\circ}$ LED module angle adjustable
4. Compatible with motion sensor for longer working hours
5. LiFePO4 battery with 2000 lifecycles
6. High-quality monocrystalline solar panel
7. 2-3 overcast days' autonomy, solar and hybrid options
8. Dimming can be reconfigured through the remote controller

Application



Urban & Residential Street



Pedestrian Path



Park & Square



Rural Road



Bridge



Seaside



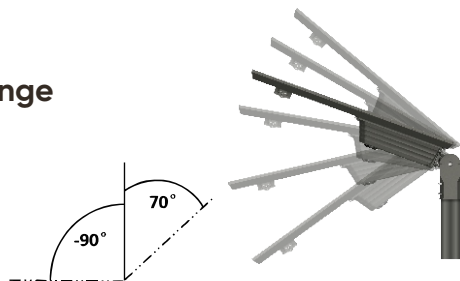
Post top



Side entry

-90°~+70° Mounting angle range

Ideal for regions that require solar panel tilt for a better charging efficiency



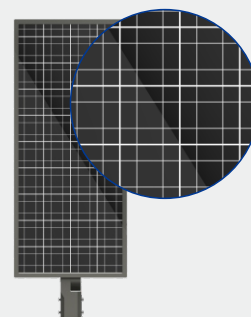
Smooth surface design

Reduces debris and self-cleaning under rainy weather



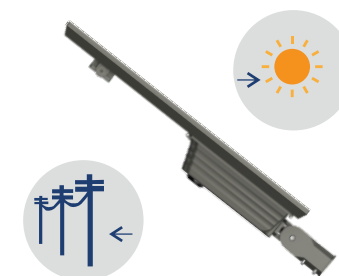
Monocrystalline solar panel

Maximize energy conversion and optimize charging efficiency



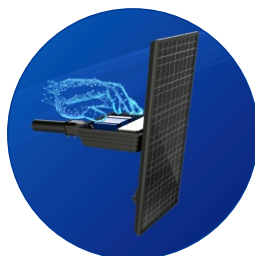
Solar and hybrid options

Increase application flexibility while reducing carbon emissions



Hassle-free maintenance

Easy access to the battery compartment for quick and convenient maintenance



Intelligent lighting modes

The lighting mode can be customized as per specific requirements

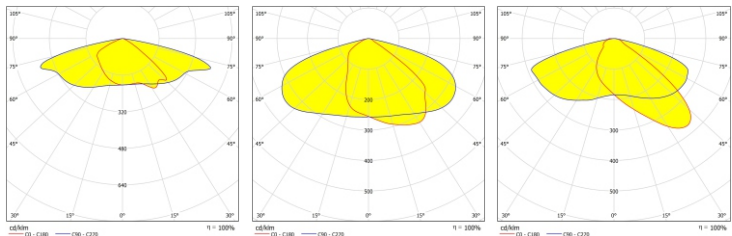


Default Lighting Mode*

When people approach: 2H*100%+3H*50%+6H*20%+1H*30%

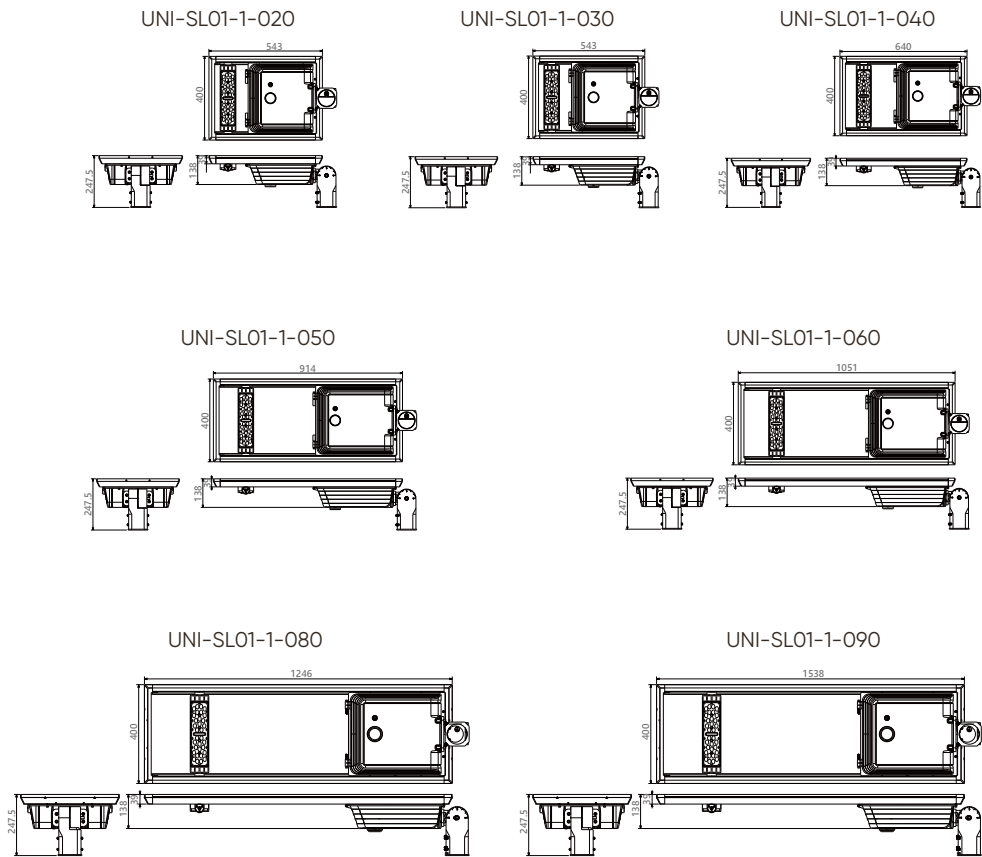
When nobody: 20% with motion sensor

Light Distributions



Type II (UNI-728) Type II (UNI-838) Type III (UNI-596)

Dimensions



3030 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K, 5000K Ra70@Tq=25°C	
			Luminaire Efficiency	Luminous Flux
20	50	UNI-596	180 lm/W	3600 lm
30	80			5400 lm
40	100			7200 lm
50	150			9000 lm
60	180			10800 lm
80	240			14400 lm
90	240			16200 lm

5050 Light Source

Power (W)	LED QTY (pcs)	Light Distribution	4000K, 5000K Ra70@Tq=25°C		Power (W)	LED QTY (pcs)	Light Distribution	4000K, 5000K Ra70@Tq=25°C	
			Luminaire Efficiency	Luminous Flux				Luminaire Efficiency	Luminous Flux
20	24	UNI-838	200 lm/W	4000 lm	20	24	UNI-728	200 lm/W	4000 lm
30	36			6000 lm	30	36			6000 lm
40	48			8000 lm	40	48			8000 lm
50	64			10000 lm	50	60			10000 lm
60	72			12000 lm	60	72			12000 lm
80	96			16000 lm	80	90			16000 lm
90	96			18000 lm	90	90			18000 lm

Power (W)	LED QTY (pcs)	Light Distribution	4000K, 5000K Ra70@Tq=25°C		3000K, 5700K, 6500K Ra70@Tq=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
20	8	UNI-838	180 lm/W	3600 lm	165 lm/W	3300 lm
30	12			5400 lm		4950 lm
40	20			7200 lm		6600 lm
50	24			9000 lm		8250 lm
60	28			10800 lm		9900 lm
80	40			14400 lm		13200 lm
90	48			16200 lm		14850 lm

Power (W)	LED QTY (pcs)	Light Distribution	4000K, 5000K Ra70@Tq=25°C		3000K, 5700K, 6500K Ra70@Tq=25°C	
			Luminaire Efficiency	Luminous Flux	Luminaire Efficiency	Luminous Flux
20	8	UNI-728	180 lm/W	3600 lm	165 lm/W	3300 lm
30	12			5400 lm		4950 lm
40	18			7200 lm		6600 lm
50	24			9000 lm		8250 lm
60	30			10800 lm		9900 lm
80	36			14400 lm		13200 lm
90	40			16200 lm		14850 lm

The luminaire efficacies are the typical values, ±7% tolerance is reserved.

Parameters

Battery Version

							
Product Model	UNI-SL01-1-020	UNI-SL01-1-030	UNI-SL01-1-040	UNI-SL01-1-050	UNI-SL01-1-060	UNI-SL01-1-080	UNI-SL01-1-090
System Voltage	12V	12V	12V	12V	12V	12V	24V
Monocrystalline Solar Panel	40W/18V	40W/18V	50W/18V	60W/18V	80W/18V	100W/18V	120W/36V
LiFePO4 Battery	12.8V/15AH	12.8V/15AH	12.8V/30AH	12.8V/30AH	12.8V/45AH	12.8V/60AH	25.6V/30AH
System Power (W)	20	30	40	50	60	80	90
Sensor Distance	IR sensor: Height =6m, Width = 7m Microwave sensor: Height =8m, Width = 10m Photo sensor + Timer Dimming						
Hybrid	Battery						
Luminaire Efficiency (Tq=25°C)	180-200lm/W						
Luminous Flux (lm)	3600-4000	5400-6000	7200-8000	9000-10000	10800-12000	14400- 16000	16200-18000
CCT	3000K/4000K/5000K/5700K/6500K						
SDCM	≤7						
CRI	Ra>70						
Housing Materials	Die-casting Aluminum Housing + Extruded Aluminum Frame + PC						
IP/IK	IP66/IK08(Solar panel: IK07)						
Spigot Diameter (mm)	Φ 60 / Φ 76						
Installation Height (m)	2~4	3~5	4~6	5~7	5~7	6~8	8~10
Max Projected Area (m²)	0.22	0.22	0.26	0.37	0.43	0.5	0.62
Wind-Resistance (km/h)	130						
Luminaire Dimension (mm)	543×400×138	543×400×138	640×400×138	914×400×138	1051×400×138	1246×400×138	1538×400×138
Luminaire Packing Dimension (mm)	620×480×225	620×480×225	720×480×225	995×480×225	1130×480×225	1325×480×225	1610x480x225
Net Weight (±0.2kg)	11	11	12	15	16	18	23
Gross Weight (±0.2kg)	14	14	15	19	20	22	26

Note: The tolerance of Luminous Flux is ±7%

Parameters

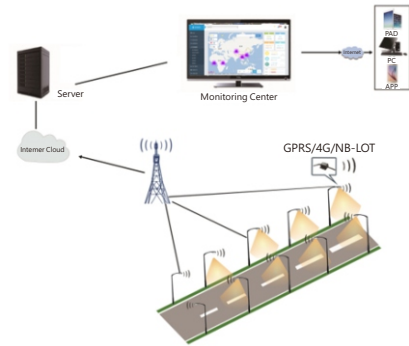
Battery & AC Main Version

							
Product Model	UNI-SL01-1H-020	UNI-SL01-1H-030	UNI-SL01-1H-040	UNI-SL01-1H-050	UNI-SL01-1H-060	UNI-SL01-1H-080	UNI-SL01-1H-090
System Voltage	12V	12V	12V	24V	24V	24V	24V
Monocrystalline Solar Panel	40W/18V	40W/18V	50W/18V	60W/36V	80W/36V	100W/36V	120W/36V
LiFePO4 Battery	12.8V/15AH	12.8V/18AH	12.8V/24AH	25.6V/15AH	25.6V/18AH	25.6V/24AH	25.6V/36AH
System Power (W)	20	30	40	50	60	80	90
Sensor Distance	IR sensor: Height =6m, Width = 7m		Microwave sensor: Height =8m, Width = 10m		Photo sensor + Timer Dimming		
Hybrid	Battery & AC Main						
AC Input Voltage	100-240Vac 50/60Hz						
Luminaire Efficiency (Tq=25°C)	180-200lm/W						
Luminous Flux (lm)	3600-4000	5400-6000	7200-8000	9000-10000	10800-12000	14400- 16000	16200-18000
Efficacy at AC Main mode(Tq=25°C)	155lm/W	155lm/W	155lm/W	155lm/W	160lm/W	160lm/W	160lm/W
Lumen at AC Main mode(lm)	3100	4650	6200	7750	9600	12800	14400
CCT	3000K/4000K/5000K/5700K/6500K						
SDCM	≤7						
CRI	Ra>70						
Housing Materials	Die-casting Aluminum Housing + Extruded Aluminum Frame + PC						
IP/IK	IP66/IK08(Solar panel: IK07)						
Spigot Diameter (mm)	Φ 60 / Φ 76						
Installation Height (m)	2~4	3~5	4~6	5~7	5~7	6~8	8~10
Max Projected Area (m²)	0.22	0.22	0.26	0.37	0.43	0.5	0.62
Wind-Resistance (km/h)	130						
Luminaire Dimension (mm)	543×400×138	543×400×138	640×400×138	914×400×138	1051×400×138	1246×400×138	1538×400×138
Luminaire Packing Dimension (mm)	620×480×225	620×480×225	720×480×225	995×480×225	1130×480×225	1325×480×225	1610x480x225
Net Weight (±0.2kg)	11	11	12	15	16	18	23
Gross Weight (±0.2kg)	14	14	15	19	20	22	26

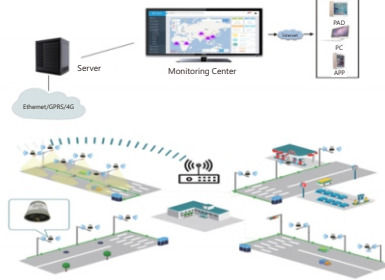
Note: The tolerance of Luminous Flux is ±7%

Smart Solar Lighting System

GPRS, 4G, NB-IOT solutions



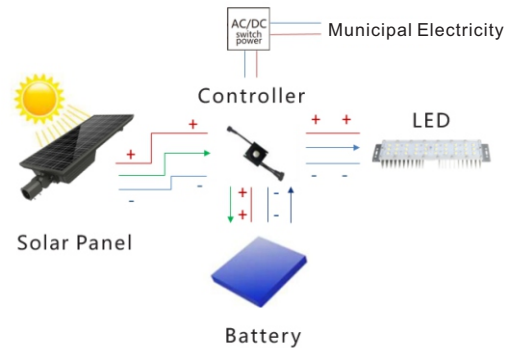
433M, Lorawan, Zigbee solutions



Complementary Function of Commercial Power

1. Battery Priority:

When the battery voltage is higher than the switching voltage, the battery power should be used preferentially; when the battery voltage is lower than the power supply and switching voltage is set lower than the battery voltage, the battery is in the preferential mode.



2. Municipal Electricity Priority:

In case of municipal power access, municipal power shall be supplied to the load preferentially. When there is no municipal power or the municipal power voltage is incorrect, it shall switch to battery for power supply. When switching voltage is set higher than the maximum voltage of the battery, the commercial power is in the preferential mode.

When the commercial power complementary controller is in use, it is required to pay attention to:

- A. Commercial power only supplies power to the luminaires, but not to the battery.
- B. Switching voltage point can be set via the remote controller.
- C. In the course of using, if the battery is removed, under normal power supply condition of battery panel and commercial power, commercial power can be supplied to the luminaires at night and the luminaires can operate normally.

