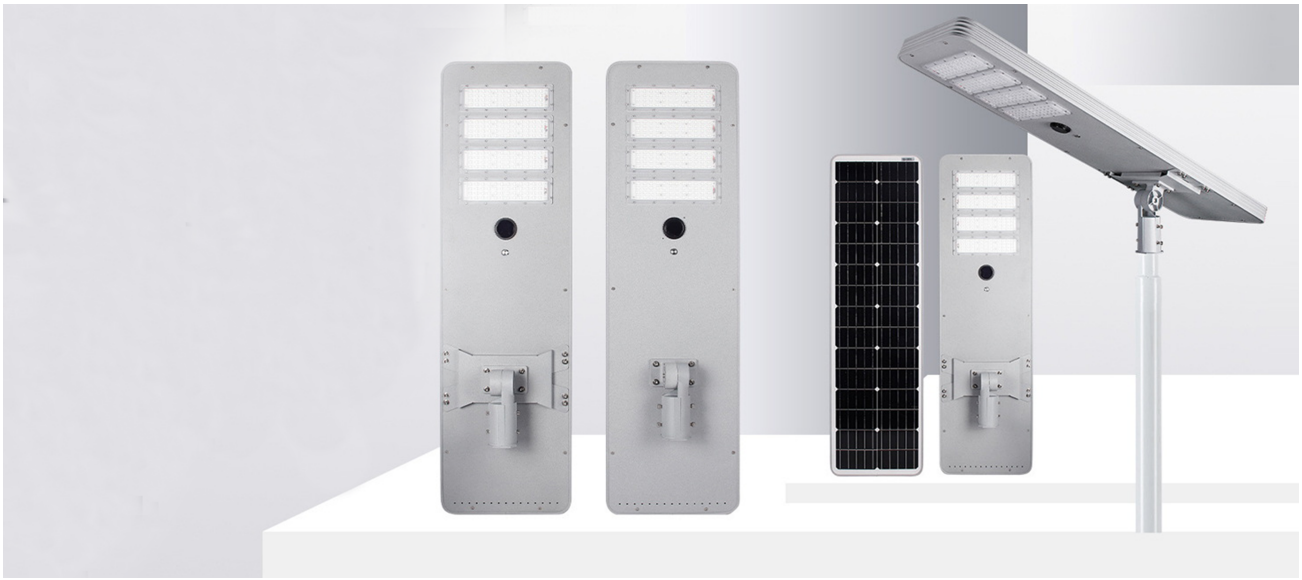
Reluxlight®
Solar Light, Bright Future

ALL-IN-ONE SOLAR STREET LIGHT

Integrated intelligence. Faster deployment.

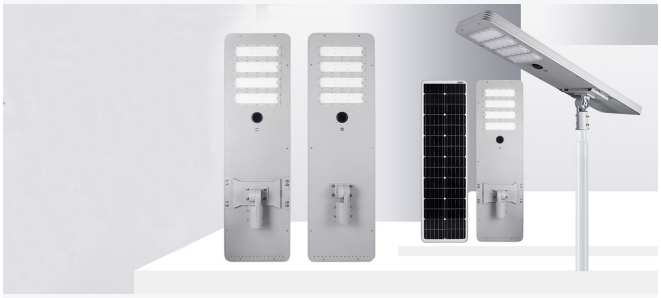
High-efficiency LED optics, mono-crystalline solar charging and LiFePO4 storage engineered into one streamlined road-lighting platform.



40-150W	150W	IP66 / IK10
PUBLIC RANGE	PROJECT OPTION	PROTECTION RATING

One housing. One installation workflow.

The integrated architecture reduces field wiring and commissioning time while retaining project-ready optics, adaptive control and serviceable energy components.



SYSTEM COMPONENTS

01 **Integrated LED engine**

High-output SMD3030 platform with road optics and a nominal system efficacy of 170 lm/W.

02 **Mono PV surface**

High-efficiency mono-crystalline module integrated with the luminaire for compact deployment.

03 **LiFePO4 energy pack**

12.8V battery platform with BMS protection and capacity scaled across the six models.

04 **Adaptive controller**

Dusk-to-dawn operation, time dimming, PIR sensing and handheld remote programming.

01

Project-ready optics

Type II / Type III road distribution, 2700K-6500K CCT options and controlled roadway coverage.

02

Rapid installation

Integrated mechanical and electrical architecture minimizes site wiring and assembly steps.

03

Adaptive autonomy

Time-based dimming and PIR control protect the energy budget through variable weather.

CORE PERFORMANCE

170 lm/W	12 h/night	2-3 nights*	-25 to 65 C
SYSTEM EFFICACY	OPERATING PROFILE	ADAPTIVE BACKUP	WORKING RANGE

* Backup duration is based on the programmed adaptive dimming profile, not continuous full output.

All-in-one series configuration matrix

Five standard configurations plus a high-output 150W project option for site-specific engineering.

PARAMETER	40W	60W	80W	100W	120W	150W*
Actual LED input	40W	60W	80W	100W	120W	150W
System luminous flux	6,800 lm	10,200 lm	13,600 lm	17,000 lm	20,400 lm	25,500 lm
System efficacy	170 lm/W	170 lm/W	170 lm/W	170 lm/W	170 lm/W	170 lm/W
LiFePO4 battery	12.8V 36Ah	12.8V 54Ah	12.8V 66Ah	12.8V 84Ah	12.8V 90Ah	12.8V 100Ah
Mono solar module	18V 80W	18V 100W	18V 130W	18V 160W	18V 180W	18V 200W
Product envelope	960x390 x140	1200x390 x140	1550x390 x140	1900x390 x140	2100x390 x140	2350x430 x140
Mounting height	4-6 m	5-8 m	6-9 m	7-10 m	8-11 m	9-12 m
Charge recovery	6-9 PSH	6-9 PSH	6-9 PSH	6-9 PSH	6-9 PSH	6-9 PSH
Lighting profile	12 h adaptive	12 h adaptive	12 h adaptive	12 h adaptive	12 h adaptive	12 h adaptive
Backup duration	2-3 nights adaptive	2-3 nights adaptive	2-3 nights adaptive	2-3 nights adaptive	2-3 nights adaptive	2-3 nights adaptive

* 150W is a project configuration. Confirm product weight, pole-top load and installation method before selection.

COMMON SPECIFICATIONS

HOUSING
Die-cast aluminum + PMMA optical lens

PROTECTION
IP66 / IK10

CCT / CRI
2700K-6500K; CRI >= 70, CRI >= 80 optional

OPTICS
Type II-M or Type III-M road distribution

CONTROL
MPPT + five-stage dimming + PIR/microwave + remote

TEMPERATURE
-25 to 65 deg C

WARRANTY
3 years standard; 5-year project option

PRODUCT ENVELOPE
960x390x140 to 2350x430x140 mm, model dependent

Specify the system around the site.

Select the model and adaptive dimming profile against local solar irradiation, target illuminance, pole spacing and required consecutive rainy-night reserve.

01 Application inputs

- Road classification and target lux
- Pole height, arm length and spacing
- Location and peak-sun-hours
- Required backup nights and seasonal risk

02 Configuration options

- 2700K-6500K color temperature
- Type II / Type III optical lens
- PIR sensitivity and dimming schedule
- Pole, arm and foundation kit

03 Quality and delivery

- Illumination and aging inspection
- Waterproof and salt-spray testing
- OEM branding and packaging
- Export document coordination

START A PROJECT

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Backup duration depends on dimming profile, solar irradiation and battery state of charge. Specifications may be optimized by project conditions.