

RA solar Street light

DATASHEET



The RA serial is an all-in-one solar street light, unique designed by Edison, the solar panel, lithium battery, controller, and LED lamp are integrated into one part, convenient for customers to install. It is widely applied in urban and rural roads, parks, squares and so on.

Advantages:

- Excellent heat dissipation
- All-in-one design, easy for installation and adjustment
- EMC 5050 ultra high Efficiency LED + LiFePo4 Battery
 - + Mono Crystalline solar panels

Features

- Light efficiency up to 230LM/W
- CRI: ≥ 70
- IP protection: IP65
- Led fixtures Lifespan : 50,000 hours
- Warranty: 5 years



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Specification Information

- Light fixture specification**

Model No.	RA-15W-AIR	RA-20W-PRO
Power(W)	15	20
Input Voltage (V)	12	
Efficiency(Lm/W)	230*	220*
Lumen flux(Lm)	3450	4400
Beam angle	TYPE II	
Color temperature:	3000K/4000K/5700K/6500K	
CRI	≥70	
Housing	ADC12 die-cast aluminum, surface spray color: RAL9023 gray	
Cover Lens	UV-resistant PC	
LED Brand/Model	EDISON 5050	
Controller	PWM,MPPT(optional)	
IP protection	IP65	
Days for rainproof	≥2days	

- Solar panel specification**

Max power(W)	20
Voltage (V)	18
Material	Mono-crystalline

- Battery Specification**

Voltage (V)	12.8	
Battery Module Capacity (AH)	12	18
Battery Type	LiFePo4 Battery	
Cable (mm ²)	2*1.5mm ²	
Working Temp (°C)	Power charge: 0°C - 45°C; Power discharge: -20°C - 55°C	
Cycles	≥2000 times	
Charging time	7-11H**	11-16H**
Discharge time	> 12hours / night	

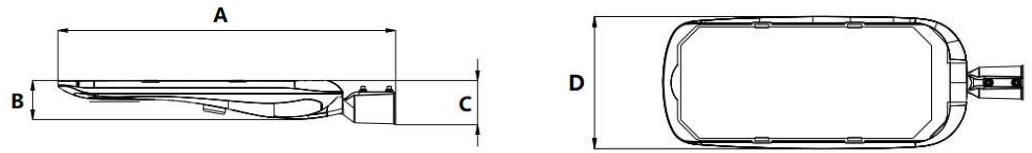
- Controller Specification**

Motion+timing mode	2H (100%) ;2H (40%) ;8H detected (100%) ,none (20%) ;(Adjustable)
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*Based on the color temperature at 4000K

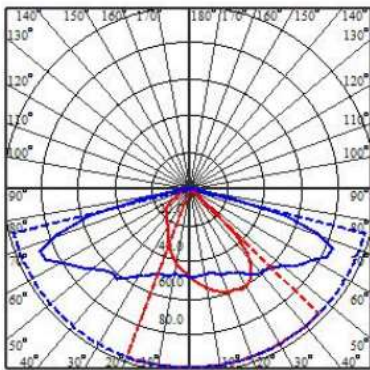
** Based on PWM Controller

Dimensions



Model No.	RA-15W-AIR	RA-20W-PRO
A		777
B		90
C		102
D		285

Light Distribution Curve



Other optical types can be provided upon request

Packaging Information

Model No.	RA-15W-AIR	RA-20W-PRO
Packing dimension(mm)	860*172*355	860*172*355
Quantity in a carton	1Pc/Carton	

Revision History

Versions	Description	Release Date
1.0	NEW	2024/01

About Edison Opto

Edison Opto provides comprehensive LED and solid-state lighting products from LED Component, Light Module, UV / IR LED, LED sensing, Horticulture and Automotive Lighting. With a view to improve R&D process, Edison Opto develops the vertical platform on **TEMOTM** (Thermal. Electrical. Mechanical. Optical) to ensure the quality of products and services; Furthermore, Edison Opto creates **LDMSTM** (Lighting Design Manufacturing Service) from light source to luminaire manufacturing, to serve our customers a quality experience of customized solutions.



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