Road Smart

RSK SERIES

Panels Power: 42W - 150W

Lumen: 4000LM - 18000LM



www.roadsmartsolar.com



RSK-40



RSK-60



RSK-80

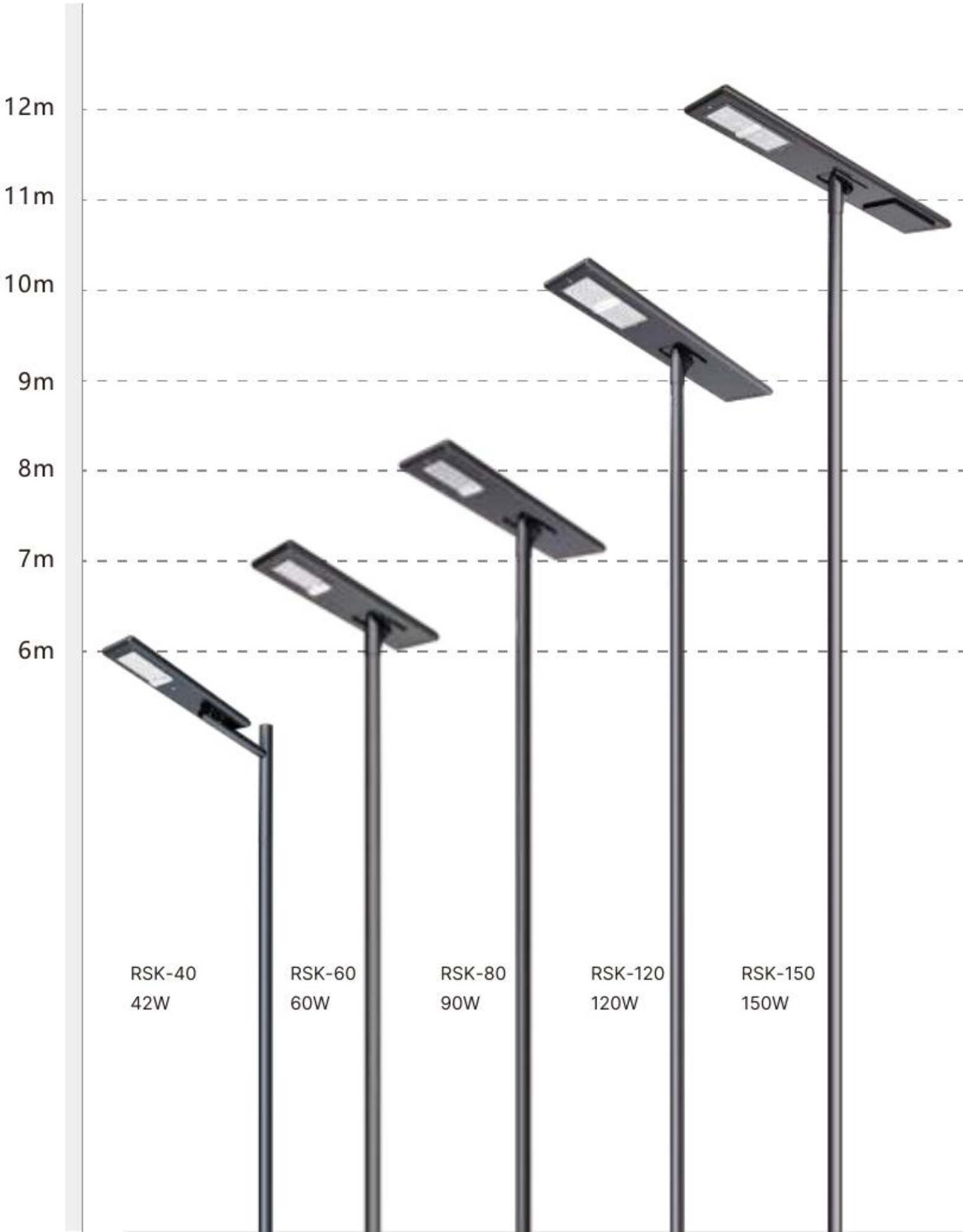


RSK-120

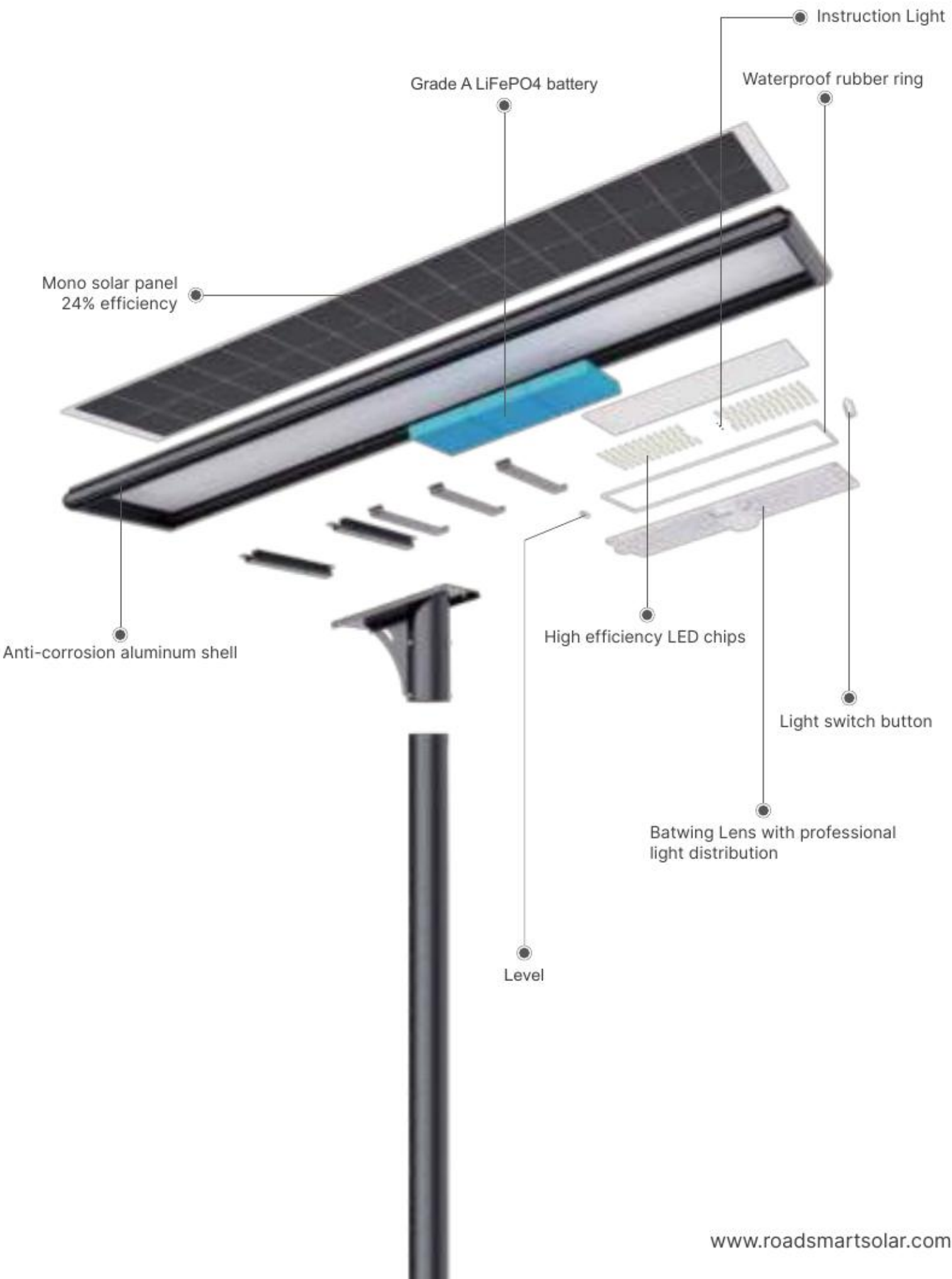


RSK-150

Lamp post installation height recommendation diagram



Advantage


Instruction Light
Grade A LiFePO4 battery
Waterproof rubber ring
Mono solar panel
24% efficiency
Anti-corrosion aluminum shell
High efficiency LED chips
Light switch button
Batwing Lens with professional
light distribution
Level

Core Technologies



3.2V MPPT Technology

Due to variance in cell capacity, internal resistance and voltage, a faulty cell shortens the lifespan of 12V/24V multi-string battery packs. 3.2V MPPT avoids this issue; single-cell faults will not affect the whole pack. It lowers battery failure risks by 75% versus 12V systems and quadruples service life with superior stability.



Multi-Peak MPPT

RoadSmart new patent solar controller adopts multi-peak MPPT technology, which can timely track the maximum power point and improve the conversion efficiency of solar panels. Charging efficiency increase 20% compare with normal MPPT.



IPC 5.0 Technology

Through 15 years' experience, RoadSmart upgraded highly precise 5.0 version IPC technology (intelligent power control 5.0). It will intelligently detect recent weather conditions, reasonably plan the discharge power to achieve 3-5 rainy. days work.



ICD Technology (Intelligent Charge and Discharge)

Using Grade A LiFePO4 battery with excellent safety performance. RoadSmart's unique current equalization and dual protection (software and hardware) enable the battery's capacity remains at 90% after 2000 cycles. Lifetime is 4 times longer than that of lead-acid batteries.



Intelligent high-efficiency lamp chips

Equipped with high-luminous-efficiency LED chips to optimize brightness; the overall lighting efficiency is greater than 160 LM/W.



Professional light distribution design

Equipped with patented lens to make the irradiation area more uniform.



Indicator lights of battery capacity

Indicator lights of battery capacity display the power of the lamp obviously, which is convenient to observe the charging and discharging of the lamp.



Modular design

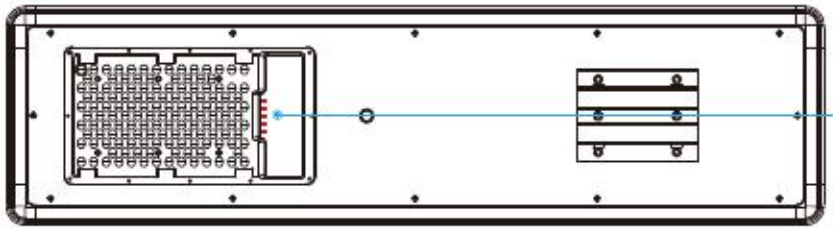
Modular design of battery and LED chip, transportation, installation and maintenance are more economical and simple.

Indicator light status instructions

RSK-60/RSK-80/RSK-120/RSK-150

LED	Indications	Status	Functions
• Blue	Charging indication	Long-term on	During the day, it's not charging
		Slow twinkling	Battery full charged
		Long-term off	Night
• Red	Battery indication	Long-term on	Battery works normally
		Long-term off	Battery is not connected/No power
		Fast twinkling	Battery is over discharged
		Slow twinkling	Battery full charged
• Green	Load indication	Long-term on	Load is on
		Long-term off	Load is off

RSK-40





Battery capacity instructions

Remote Control

DEMO: No matter day or night, light "on" for 1 minute.
Only for test use.

OFF: Light "off", no matter day or night.

L: 100%-2hrs,70%-2hrs, 30%-dawn.

T: 3hrs-100%, 2hrs-50%, 6hrs-20%, 50% before dawn 1hr.

M: 100% whole night (Output power reduce).

U: At night, 100%-3hrs, 50%-3hrs(Highlight mode)



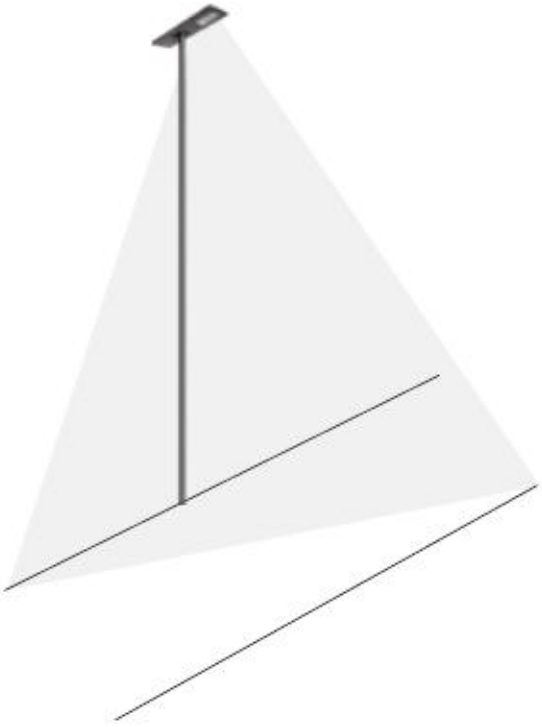
Note:

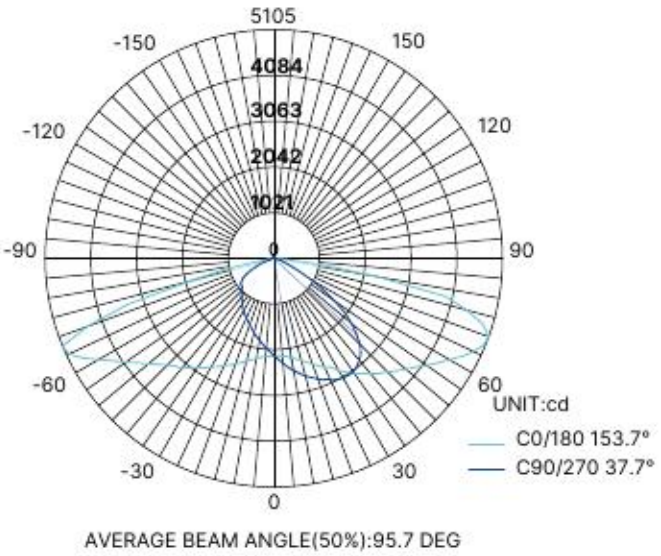
1.Default is T mode, once a certain mode was set successfully, it will be reserved until you change other modes with remote control.

2. U Highlight mode: Increase 30% on the original basis, mean 3hrs-130%, 3hrs-80%.

Light Distribution

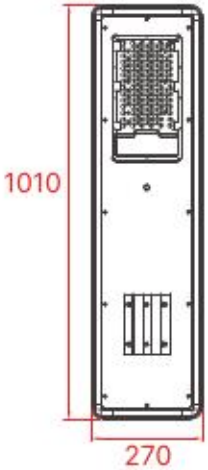
Luminous intensity distribution curves.





Dimension

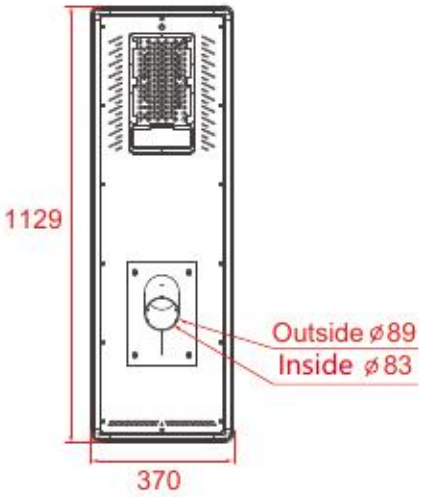
RSK-40

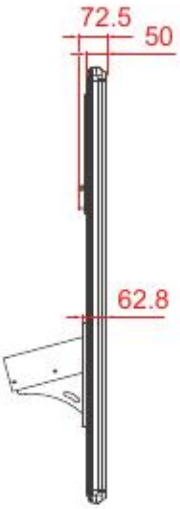






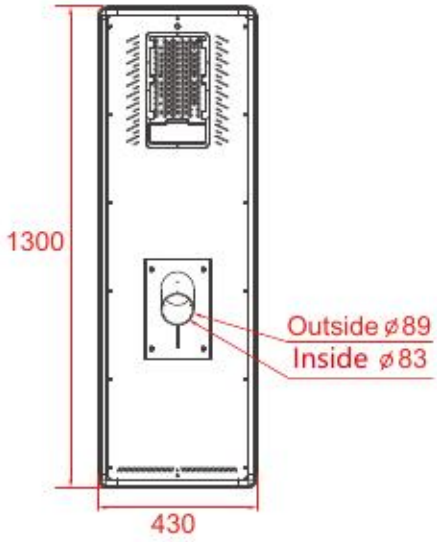
RSK-60



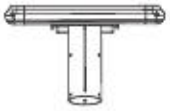




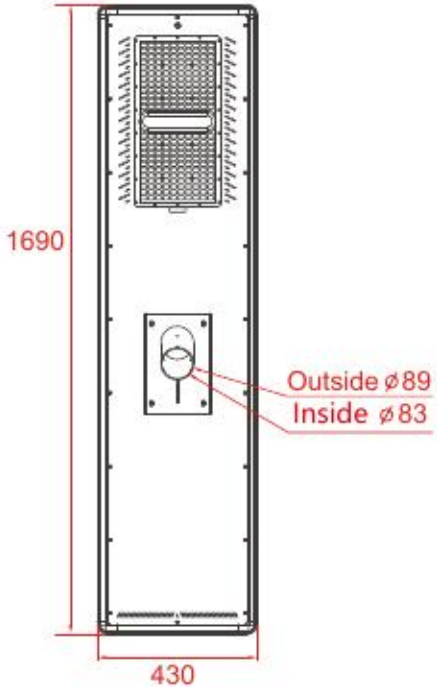
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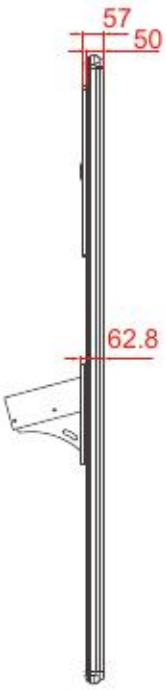






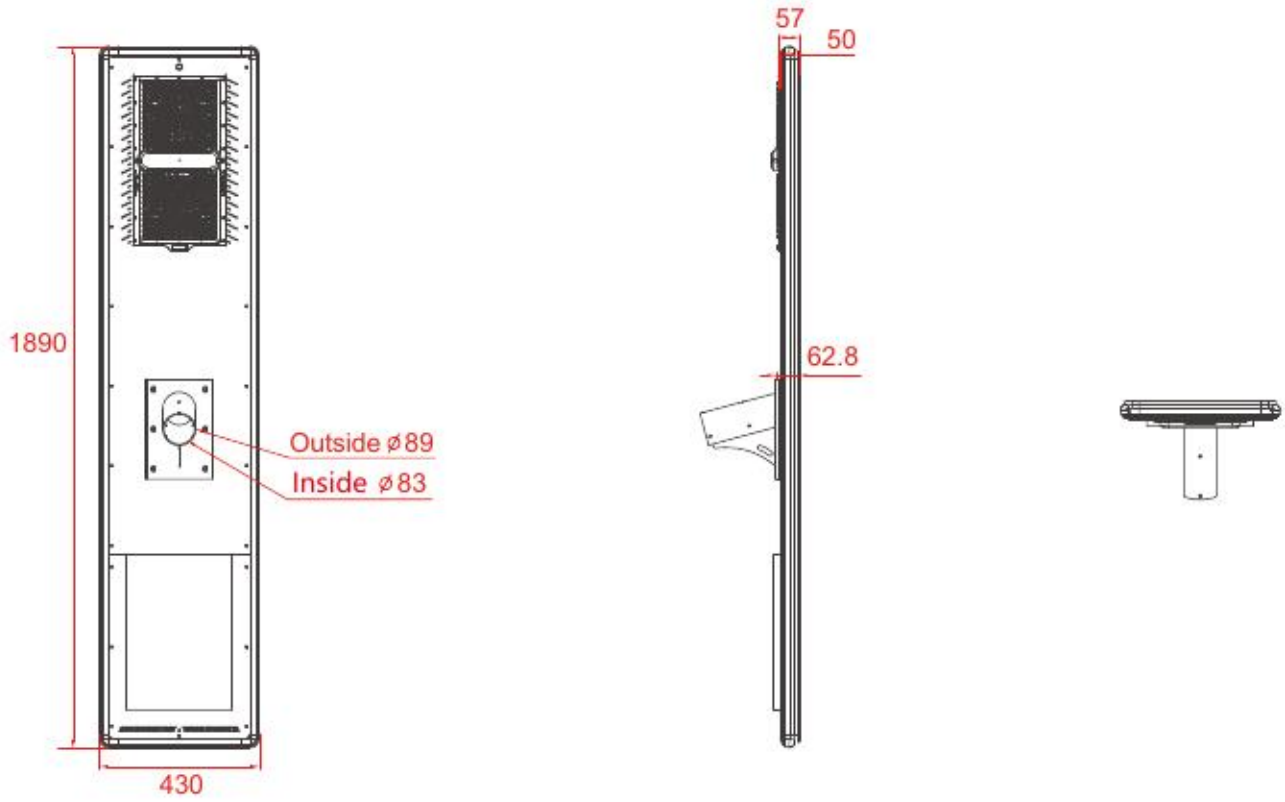
RSK-120





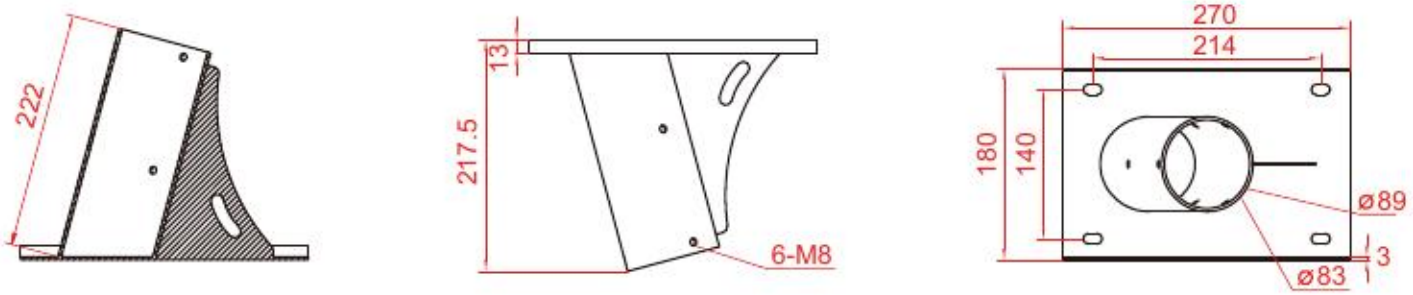


RSK-150

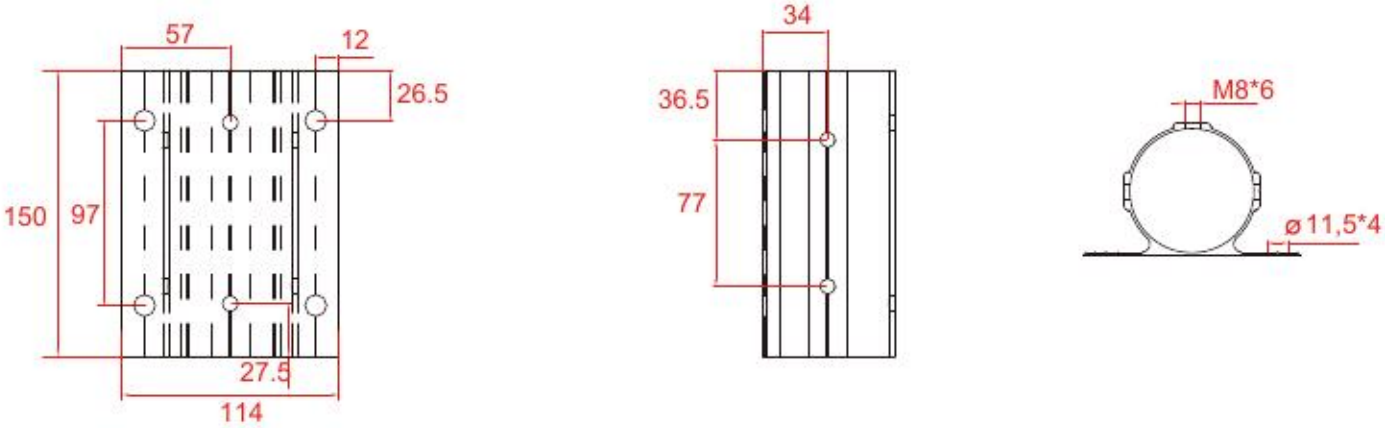


Sleeve Depth

RSK-60/RSK-80/RSK-120/RSK-150



RSK-40



Parameter

Type	RSK-40	RSK-60	RSK-80	RSK-120	RSK-150
Lamp Head					
LED chip	140pcs			240pcs	
Luminous flux	4000lm	6000lm	10000lm	15000lm	18000lm
Lifespan	50000hrs				
IP Rating	IP65				
Working temperature	-20°C~60°C (Charge above 0°C)				
Color temperature	3000-7500K				
CRI	Ra≥70				
Solar Panel					
Power	42W	60W	90W	120W	150W
Voltage	6V	18V			
Solar cell efficiency	22%-24%				
Material	Monocrystalline silicon				
Battery					
Capacity	144WH/45AH	240WH/75AH	384WH/120AH	640WH/200AH	960WH/300AH
Lighting time (full charged)	5-7 rainy days				
Lithium battery	LiFePO4				
Installation					
Top diameter of pole	60mm	76mm			
Mounting height	4-6M	6-7M	6-8M	8-10M	10-12M
Installation spacing	20-40M				