Road Smart



RSP series

Panels Power: 70W - 120W

Lumen: 6300LM - 12000LM

www.roadsmartsolar.com



Modular Design

From 70W to 120W

RSP-60-P



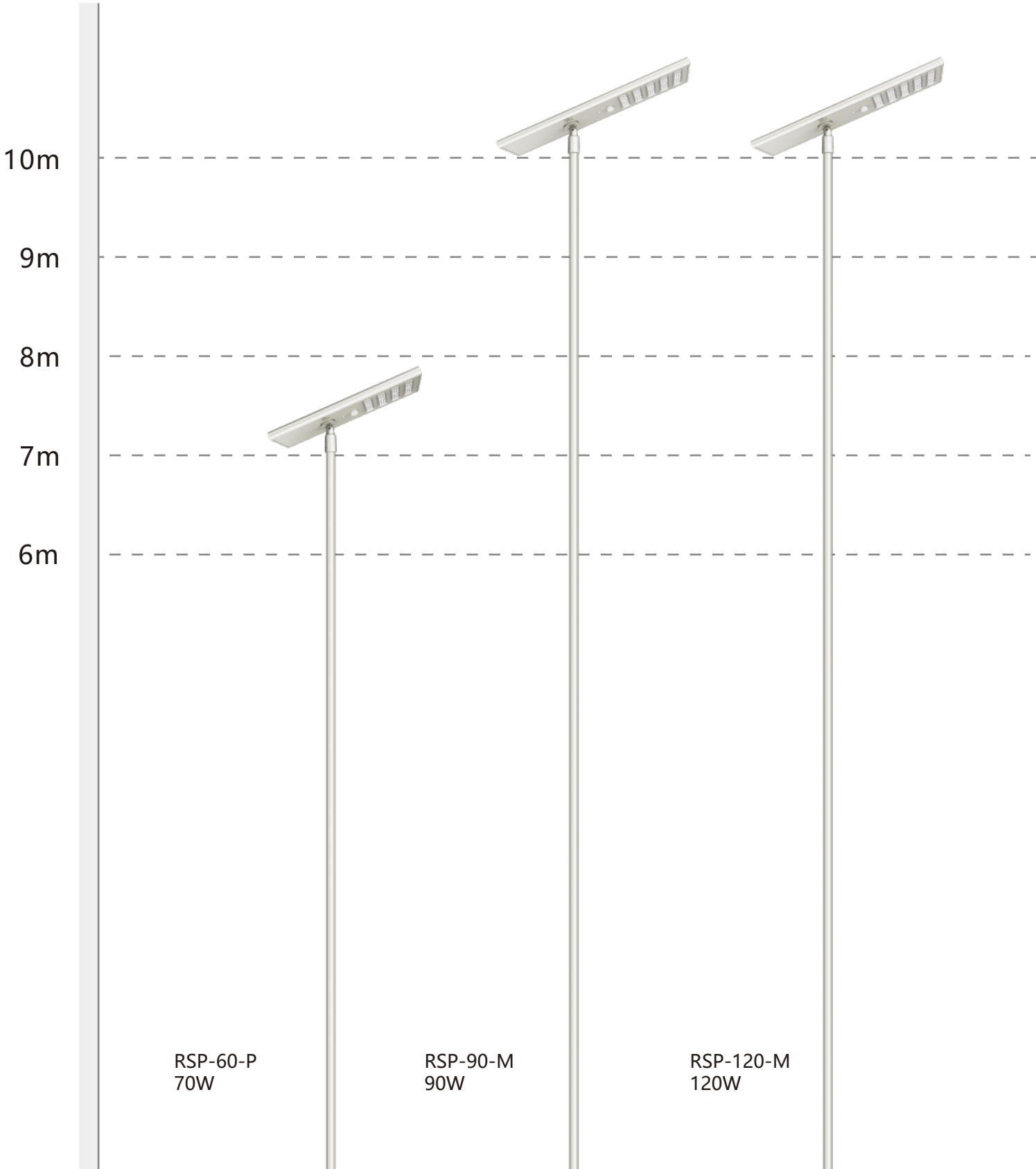
RSP-90-M



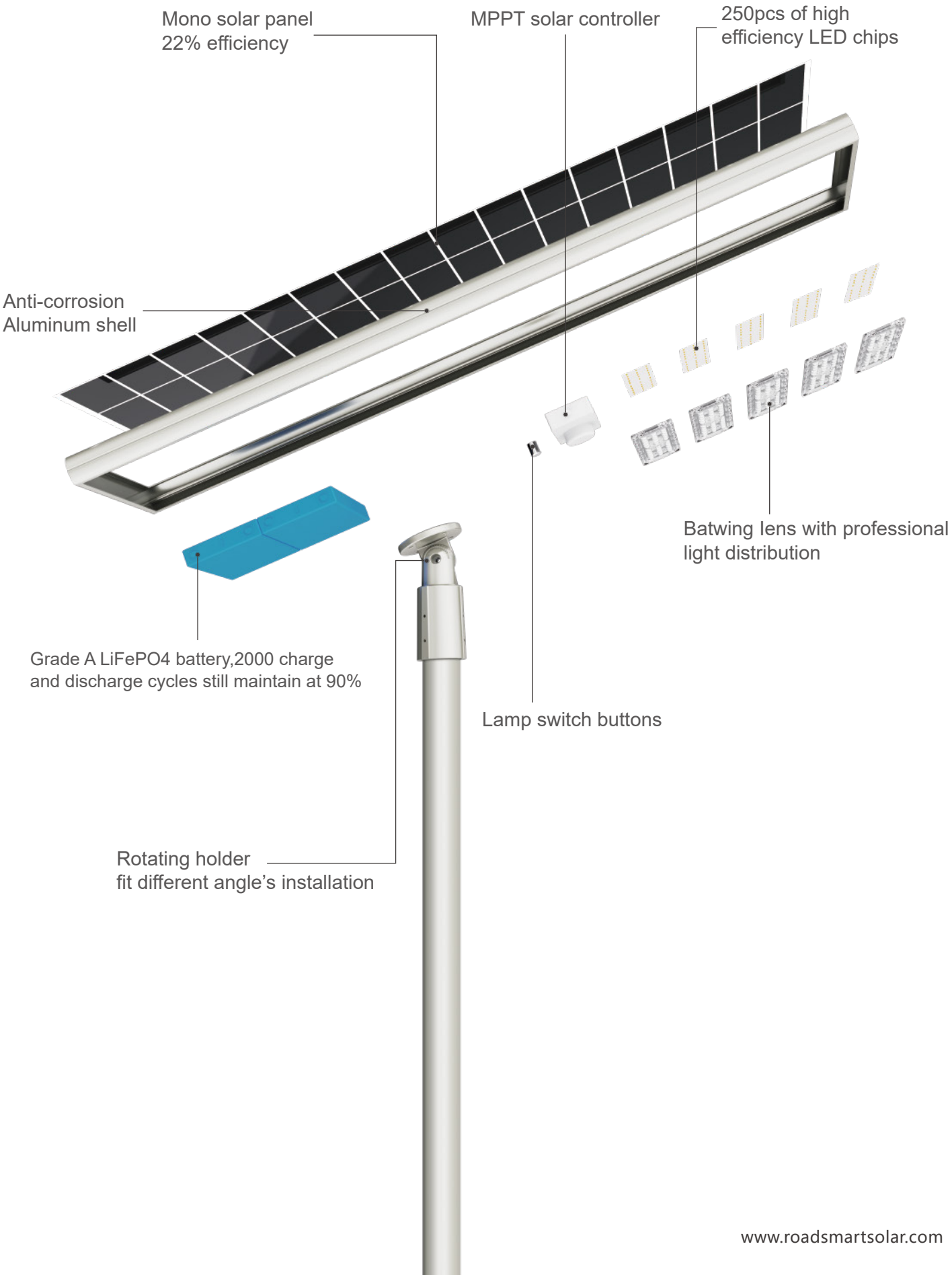
RSP-120-M

Lamp post installation height recommendation diagram

Series	Recommended installation height
RSP-60-P	6-7m
RSA-90-M	8-10m
RSA-120-M	8-10m



Advantage


Mono solar panel
22% efficiency
MPPT solar controller
250pcs of high
efficiency LED chips
Anti-corrosion
Aluminum shell
Batwing lens with professional
light distribution
Grade A LiFePO4 battery,2000 charge
and discharge cycles still maintain at 90%
Lamp switch buttons
Rotating holder
fit different angle's installation

Patented appearance

Integrated design of solar panel, microcomputer controller, lithium battery and high-efficiency LED light source

Modular design

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

Proprietary control system

RoadSmart self-developed solar controller can adjust different working modes freely, unique control system with more functions, stability is more stronger; Option of microwave induction function to save power and have longer lighting time

The fourth generation of intelligent power control

Upgraded intelligent power control function to regulater reasonable discharge power according to intelligent judgment of recent weather conditions, support longer lighting time and more rainy days

Intelligent high-efficiency lamp chips

250 pcs of high efficiency LED chips, optimized brightness, the whole lighting effeciency is greater than 160lm/w

Intelligent charge and discharge management

Double protection of charging and discharging by software and hardware, and intelligent equalization technology, cycle charging and discharging more than 2000 times

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

Rotating angle design

The illumination area and angle of light can be adjusted reasonably according to the width of the road

Remote Control

RSP-60-P

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

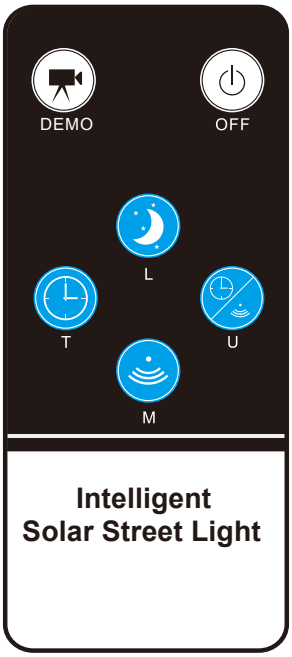
OFF: Light "off", no matter day or night

L: At night, 100%-2hrs, 70%-3hrs,20%-dawn

T : At night,100%-3hr, 50%-3hrs, 30%-2hrs

M: At night,100%-2hrs, 70%-2hrs,30%-dawn

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



RSP-90-M/RSP-120-M

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

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

L: At night, 100%-2hrs, 70%-3hrs,50%-3hrs ,40%-4hrs,20%-2hrs

T : At night,100%-3hr, 50%-3hrs, 30%-2hrs

M: At night,100%-2hrs, 70%-2hrs,30%-dawn

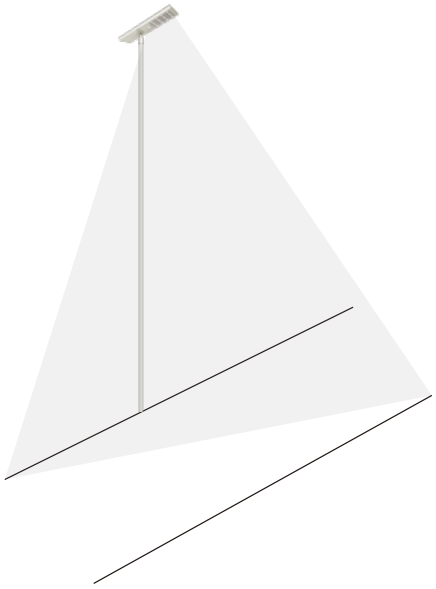
U: At night, 100%-3hrs, 50%-3hrs(Highlight mode)

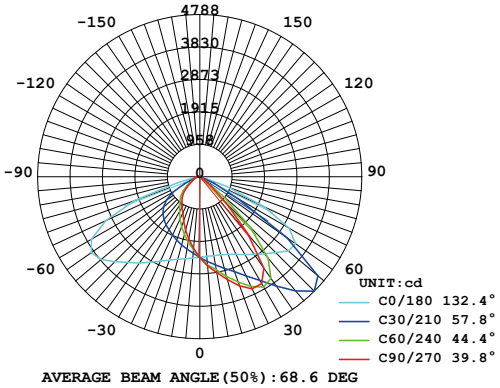
Note:

1. Default is L 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 3H-130%, 3H-80%.

Light Distribution

Luminous intensity distribution curves.





Parameter

Type	RSP-60-P	RSP-90-M	RSP-120-M
Lamp head			
LED chip	200pcs	250pcs	300pcs
Luminous flux	6300lm	9000lm	12000lm
Beam angle	150*70°		
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	70W	90W	120W
Voltage	6V	18V	
Solar cell efficiency	19%-22%		
Material	Monocrystalline silicon		
BATTERY			
Capacity	240WH/75AH	384WH/120AH	576WH/180AH
Lighting time(full charged)	5-7 rainy days		
Lithium battery	LiFePO4		
INSTALLATION			
Top diameter of pole	60 mm		
Mounting height	6-7M	8-10M	
Installation spacing	20-40M		
Product size	357×1080×60mm	417×1248×60mm	537×1318×60mm