

LEADSUN[®]

"Bright Ideas For An Even Brighter Future."

RHEA UP

The Battery integrated LED Street light



Incorporating a brilliant LED street light, super long life LiFePO4 battery system, high efficiency controller and strong aluminium alloy cage, the RHEA UP series provides not only the best cost-effective solution, but also an optimized solution for upgrading/replacing the existing used ones for the solar street lights.

With outstanding features of long life span, simple installation, low cost maintenance along with Leadsun's 5 year guarantee, the Rhea Up series is indeed a classic work which can meet all your requirements.

APPLICATION

- For Off Grid Solar applications on country roads, expressways, main streets, country yards, villa area, emergency area. Etc.

Application Method

- **For setting up a new solar street light:** Simply Plug and Play the Rhea Up with the solar panel according to the project and environment requirements. It's quick, easy and delivers excellent cost benefits with great performance.
- **For Updating/Replacing existing solar street lights:** Simply replace the existing street light with the Leadsun's Rhea UP according to the solar panel specs. Since the battery is incorporated it can directly replace the existing split type street light with the same solar panel and the pole.



High efficiency controller



Battery management system



CREE LED



IP65



5 years warranty

Product Features & Advantages



UP15 / UP20



UP30 / UP40



UP50

All-in-one integrated design

With all the components such as the controller, LiFePO4 lithium-ion battery, LED and PIR sensor integrated as a single unit, the Rhea Up series enables quick and easy installation with minimal or no maintenance.

Compatible with all solar panels ranging within 18V, 130W

Simply plug the Rhea UP Light head to the solar power output according to the required specs for installation. And That's it.



LED street light
Power: 10W-50W

Solar panel
Power: 50W-130W
Output: 18V

Product Features & Advantages

LiFePO4 Battery

High efficient LiFePO4 Battery with 6+ years' life span and environment friendly

Genuine and Reliable PIR Sensor

The Panasonic PIR sensor delivers reliable performance and dusk to dawn automatic operation

Easy Installation

Simple plug and play installation

High Efficiency CREE LED

Full Cut-off Light Distribution

Full cut-off light distribution designed especially for street lighting to eliminate the distractions of other light interference and complies with the most demanding lighting regulations

Excellent heat dissipation design

High tensile aluminum alloy shell, to improve the heat dissipation rate, and prolong the lighting efficiency

IP65 Protection

Compact and sealed design with excellent outdoor waterproof feature

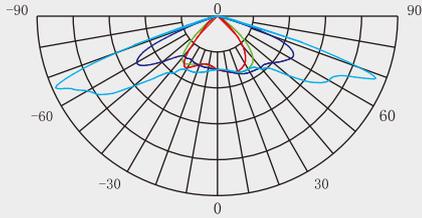
Battery Holder

Modular and Integrated battery holder, more convenient to maintain

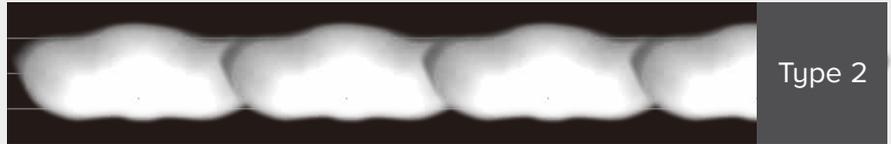


Specially designed light distribution

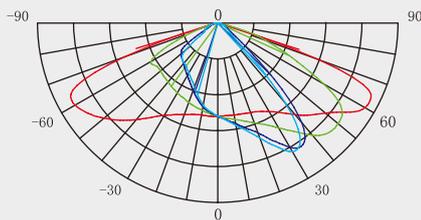
For various application needs



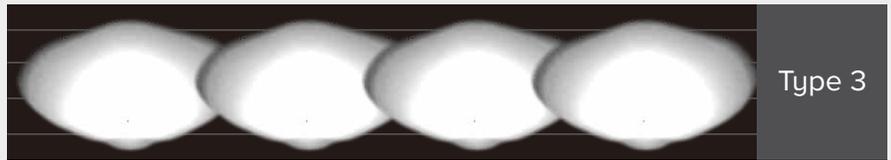
Type 2 FWHM 140°×70°



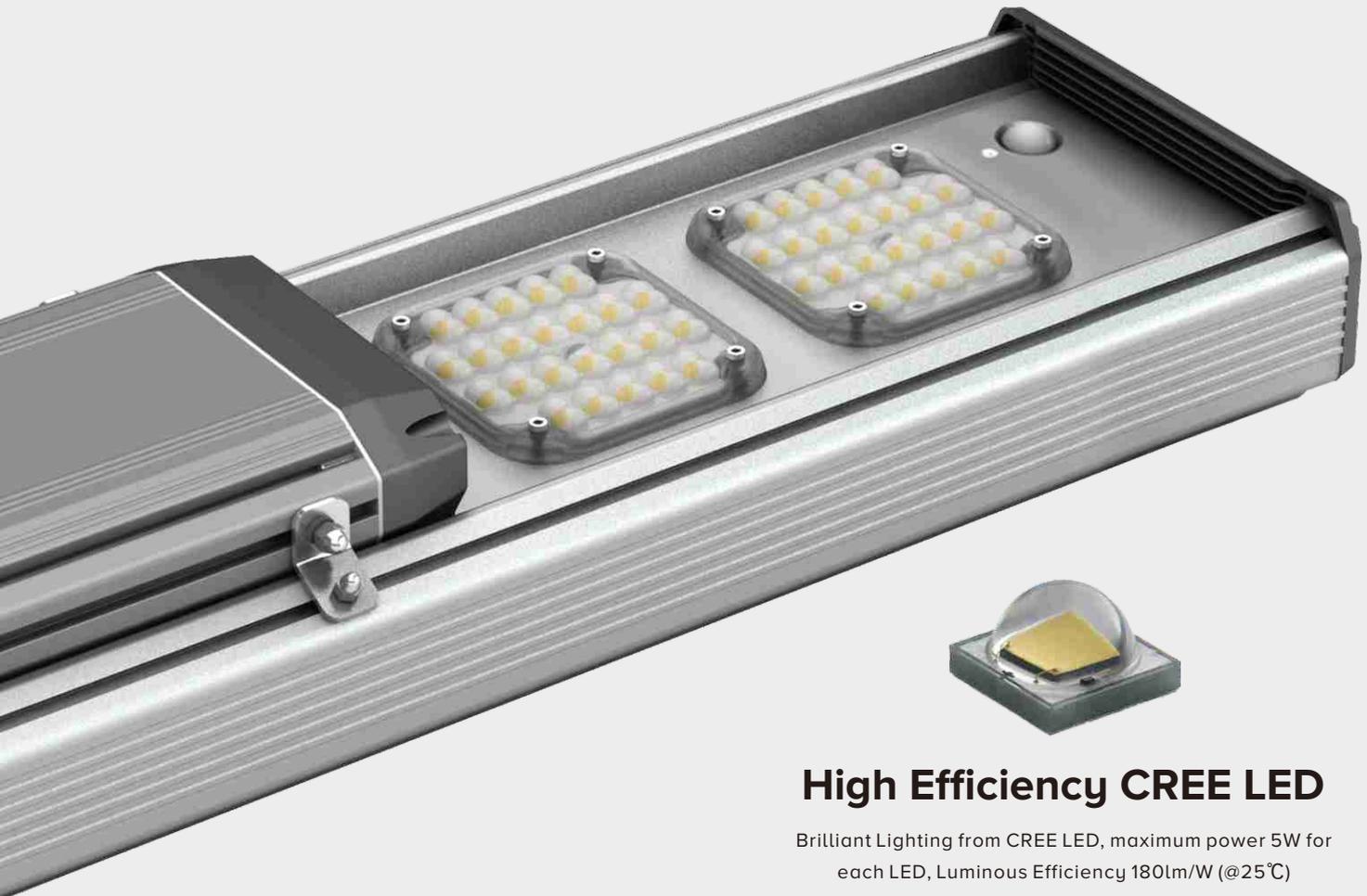
Type 2



Type 3 FWHM 140°×70°



Type 3



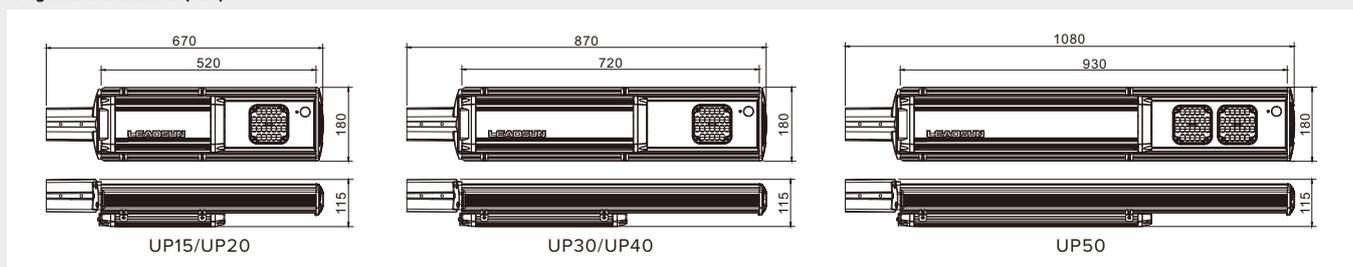
High Efficiency CREE LED

Brilliant Lighting from CREE LED, maximum power 5W for each LED, Luminous Efficiency 180lm/W (@25°C)

RHEA UP Series The Battery integrated LED Street light

Model No.	UP15	UP20	UP30	UP40	UP50
Physical Parameters					
LiFePO4 Battery	Cycle Life	2000times @ 80% DOD, 0.2C, T=25°C			
	Battery Capacity (Wh)	205	246	369	573
Light Source	CREE LED	Chip Max power 5W, 180lm@350mA , 2.85V, 25°C			
	Qty. of LED Chips (PCS)	10	18	24	24
Motion Sensor	✓	✓	✓	✓	✓
Input Source*	Solar power, 18VDC, 50Wp~130Wp				
Charging Temperature	0°C~60°C	0°C~60°C	0°C~60°C	0°C~60°C	0°C~60°C
Discharging Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Storage Temperature	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C
Net Weight (kg)	4.6	5.2	6.5	7.5	9
Dimension of Unit (mm)	670×180×115	670×180×115	870×180×115	870×180×115	1080×180×115
Light Parameters					
Light Output (W)	15	20	30	40	50
Typical Luminous Flux (lm)	2250	3000	4500	6000	7500
Light Distribution	Type II, Type III	Type II, Type III	Type II, Type III	Type II, Type III	Type II, Type III
Visual Angle	140°×70°	140°×70°	140°×70°	140°×70°	140°×70°
Color Temperature (K)	3000, 5000	3000, 5000	3000, 5000	3000, 5000	3000, 5000
Working Mode**	Working at dim mode when human is not around and regulates to full-brightness immediately when a motion has been detected.				
Battery autonomy (days)	3-5	3-5	3-5	3-5	3-5
Packing Parameters					
Dimension of Carton (mm)	730×170×230	730×170×230	930×170×230	930×170×230	1140×170×230
Gross Weight of Product (kg)	6.5	7.5	8.5	9.5	11
Mounting Recommendations					
EPA(effective projected area) (ft ²)	0.59	0.59	0.76	0.76	0.91
APA (actual projected area) (ft ²)	0.49	0.49	0.63	0.63	0.76
Wind Load Rate (mph)	130	130	130	130	130
Recommended Installation Height (m)	4-6	4-7	5-8	6-8	7-10
Recommended Installation Distance (m)	15-25	15-25	20-30	25-35	25-40
Recommended Diameter of Arm (mm)	60	60	60	60	60

Physical Dimensions (mm)



* Don't use solar power over than 130Wp, or the unit will be damaged.

** Working Mode can be modified by customer's request.

Solar module and Adjustable Bracket Kit (Optional Parts)

	Model No	50W/18V	80W/18V	110W/18V	130W/18V
Solar module	Demension of unit (mm)	670x535x30	760x670x30	1000x670x30	1200x670x35
	Net Weight(Kg)	5	7.5	8.5	9
	Available Angles	15° / 25° / 40° / 55°			
Adjustable Bracket Kit	Demension of unit (mm)	670x180x58 & 89x180			
	Net Weight(Kg)	6.6	6.6	6.6	6.6

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