



The **eco** energy of the future

INTELLIGENT SOLAR STREET LIGHT

All In One Solar Street light
All In Two Solar Street Light
Solar Garden Light

COME FROM NATURE, LIGHT UP THE FUTURE



72- Evington Road,
LE2 1HH Leicester, UK



Mobile : + 44 (0) 7729636318
Landline : + 44 (0)116 366 9980



Website : www.ecoess.co.uk

E-mail : aazib@ecoess.co.uk



/ecoess.co.uk

■ All In One Solar Street light

Solar Star Light - II

Solar Star Light - III

Solar Star Light - Pro



Solar Star Light - II



Parameters

Type	ST2-30	ST2-40	ST2-60	ST2-80	ST2-100	ST2-160
Solar panel	60W/5V	60W/5V	80W/18V	110W/18V	110W/18V	160W/18V
LiFePO4 battery	144WH	240WH	384WH	512WH	640WH	896WH
Charge cycle times	2000 times					
Luminous flux	5000LM	6000LM	10000LM	13000LM	15000LM	20000LM
LED qty	140pcs			280pcs	280pcs	280pcs
Beam angle	160°60					
Lifespan of LED	50000 hrs					
Color temperature	3000-7500K					
Light distribution	Batwing lens with polarized light					
Lighting time	5-7 rainy days					
Working temperature	-20℃~60℃(Charge above 0℃)					
Top diameter of pole	58mm	58mm	58mm	76mm	76mm	76mm
Mounting height	5-6m	7-8m	7-8m	9-10m	9-10m	10-12m
Installation spacing	20-40m					

All In One Solar Street light

Feature



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



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



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



Intelligent high-efficiency lamp chips: 100pcs of 3030 lamp chips, optimized brightness, the whole lighting efficiency is greater than 160lm/w



The fourth generation of intelligent power control: Upgraded intelligent power control function to regulate reasonable discharge power according to intelligent judgment of recent weather conditions, support longer lighting time and more rainy day

Applications



Solar Star Light - III








Parameters

Type	ST3-60	ST3-80	ST3-100
Solar panel	80W+16W	110W+22W	110W+22W
LiFePO4 battery	512WH	640WH	768WH
Charge cycle times		2000 times	
Luminous flux	10000LM	13000LM	15000LM
LED qty	140pcs	280pcs	280pcs
Beam angle		160°60	
Lifespan of LED		50000 hrs	
Color temperature		3000-7500K	
Light distribution		Batwing lens with polarized light	
Lighting time		5-7 rainy days	
Working temperature		-20°C~60°C(Charge above 0°C)	
Top diameter of pole	60mm	76mm	76mm
Mounting height	7-10m	7-10m	7-10m
Installation spacing		20-40m	

All In One Solar Street light

Feature

-  Double protection of charging and discharging by software and hardware, and intelligent equalization technology, cycle charging and discharging more than 2000 times
-  **Rotating angle design:** The illumination area and angle of light can be adjusted reasonably according to the width of the road
-  **Professional light distribution design:** The illumination area and angle of light can be adjusted reasonably according to the width of the road
-  **Intelligent high-efficiency lamp chips:** 200pcs of 3030 lamp chips, optimized brightness, the whole lighting efficiency is greater than 160lm/w
-  **The fourth generation of intelligent power control:** Upgraded intelligent power control function to regulate reasonable discharge power according to intelligent judgment of recent weather conditions, support longer lighting time and more rainy day

Applications



Solar Star Light - Pro



Parameters

Type	SP-110	SP-165
Solar panel	110W/18V	160W/18V
LiFePO4 battery	640WH	1280WH
Charge cycle times	> 2000 times	
Luminous flux	10400LM	16000LM
Lamp power	65W	100W
LED qty	400pcs	
Lifespan of LED	50000 hrs	
Color temperature	3000-7500K	
Light distribution	Batwing lens with polarized light	
Lighting time	5-7 rainy days	
Working temperature	-20°C~60°C(Charge above 0°C)	
Top diameter of pole	76mm	76mm
Mounting height	7-8m	11-12m
Installation spacing	30m	40m

All In One Solar Street light

Feature



MPPT Technology: MPPT is an advanced charge mode whose full name is Maximum Power Point Tracking function which can increase the energy utilization rate by 15% to 20% than the PWM controller



Multi-Peak MPPT: Road Smart 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



IPC 5.0 Technology: Through 10years' experience, Road Smart 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 more rainy days



HPCV Technology: Road Smart self-developed patent solar controller adopts LPCV technology (High-precision Constant Voltage Management) brings lower ripple, improves circuit efficiency, and extend lifetime of circuit and battery



Dual Low-power Consumption: 4pins plug technology to enables transportation power consumption less than 0.05mA, and circuit protection technology to enables the sleep power consumption in long-term transportation of storage will be at uA level, realizing worry-free storage for two years

Applications



■ All In Two Solar Street Light

Solar Sailing Light II

Solar Sailing Light III

Solar Flyhorse Light

Solar Street Light (YL series)

Solar Street Light (YY/YH series)

Solar Street Light (YP series)

HS Solar Street Light



Solar Sailing Light II



Parameters

Type	RS-SL80P	RS-SL100P	RS-SL120P	RS-SL120-A
Solar panel	60W/6V	80W/18V	80W/18V	100W/18V
LiFePO4 battery	192WH	256WH	320WH	384WH
Charge cycle times	2000 times			
Luminous flux	4100-4300LM	6000-6300LM	6800-7200LM	8500-9000LM
Lamp power	30W	40W	50W	60W
LED qty	140pcs 3030			
Lifespan of LED	50000 hrs			
Color temperature	3000-7500K			
Light distribution	Batwing lens with polarized light			
Lighting time	5-7 rainy days			
Working temperature	-20°C~60°C(Charge above 0°C)			
Top diameter of pole	60mm	60mm	60mm	60mm
Mounting height	6-8m	7-8m	7-8m	7-8m
Installation spacing	20-40m			

All In Two Solar Street light

Feature



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



Intelligent Power Control: Embedded intelligent monitoring 5.0 system, AI intelligently detecting recent weather conditions, reasonably plan the discharge power to achieve more rainy days



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



Intelligent high-efficiency lamp chips: 100pcs of 3030 lamp chips, optimized brightness, the whole lighting efficiency is greater than 160lm/w



The fourth generation of intelligent power control: Upgraded intelligent power control function to regulate reasonable discharge power according to intelligent judgment of recent weather conditions, support longer lighting time and more rainy day

Applications



Solar Sailing Light III



Parameters

Type	RS-SL200P	RS-SL300P
Solar panel	120W/18V	150W/18V
LiFePO4 battery	512WH	640WH
Charge cycle times	2000 times	
Luminous flux	11900-12600LM	13600-14400LM
Lamp power	80W	100W
LED qty	140pcs(5050)	
Lifespan of LED	50000 hrs	
Color temperature	3000-7500K	
Light distribution	Batwing lens with polarized light	
Lighting time	5-7 rainy days	
Working temperature	-20°C~60°C(Charge above 0°C)	
Top diameter of pole	76mm	76mm
Mounting height	8-10m	8-10m
Installation spacing	30-40m	

All In Two Solar Street light

Feature



MPPT Technology: MPPT is an advanced charge mode whose full name is Maximum Power Point Tracking function which can increase the energy utilization rate by 15% to 20% than the PWM controller



Multi-Peak MPPT: Road Smart 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



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



IPC 5.0 Technology: Through 10years' experience, Road Smart 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 more rainy days



ICD Technology (Intelligent Charge and Discharge): Using Grade A LiFePO4 battery with excellent safety performance. Road Smart'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

Applications



Solar Flyhorse Light








Parameters

Type	RS-FH100	RS-FH120	RS-FH150
Solar panel	100W/18V	120W/18V	150W/18V
LiFePO4 battery	380WH	460WH	610WH
Charge cycle times	2000 times		
Luminous flux	5800-6100LM	7500-7700LM	9100-9300LM
Lamp power	30W	40W	50W
LED qty	150pcs		
Lifespan of LED	50000 hrs		
Color temperature	3000-6000K		
Light distribution	Batwing lens with polarized light		
Lighting time	5-7 rainy days		
Working temperature	-20°C~60°C(Charge above 0°C)		
Top diameter of pole	76mm	76mm	76mm
Mounting height	7-8m	7-8m	8-10m
Installation spacing	20-40m		

All In Two Solar Street light

Feature

-  **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
-  **MPPT Technology:** MPPT is an advanced charge mode whose full name is Maximum Power Point Tracking function which can increase the energy utilization rate by 15% to 20% than the PWM controller
-  **Light Efficiency Management:** Patent led chip with high efficiency, the whole system lighting efficiency has been improved to 180lm/w
-  **Rotating Solar Panel:** Solar Panel can be adjusted in vertical and horizontal direction
-  **The fourth generation of intelligent power control:** Upgraded intelligent power control function to regulate reasonable discharge power according to intelligent judgment of recent weather conditions, support longer lighting time and more rainy day

Applications



Solar Street Light (YL series)








Parameters

Type	YL-30P	YL-60P
Solar panel	30W/5V	60W/5V
LiFePO4 battery	96WH	144WH
Charge cycle times	2000 times	
Luminous flux	1800LM	2500LM
Lamp power	12W	18W
LED qty	100pcs	
Lifespan of LED	50000 hrs	
Color temperature	7000-7500K	
Light distribution	Batwing lens with polarized light	
Lighting time	5-7 rainy days	
Working temperature	-20℃~60℃	
Top diameter of pole	60mm	60mm
Mounting height	3-7m	
Installation spacing	20-30m	

All In Two Solar Street light

Feature

-  **Battery Power indicator:** To check lamp's charge and discharge conveniently
-  **Intelligent power control:** Judge recent climate plan the reasonable discharge power
-  **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:** The illumination area and angle of light can be adjusted reasonably according to the width of the road
-  **IPC 5.0 Technology:** Through 10years' experience, Road Smart 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 more rainy days

Applications



Solar Street Light (YY/YH series)








Parameters

Type	YY-80	YY-100	YH-100	YH-120
Solar panel	60W/5V	70W/5V	100W/18V	120W/18V
LiFePO4 battery	192WH	256WH	320WH	384WH
Charge cycle times	2000 times			
Luminous flux	3400LM	4800LM	6400LM	9600LM
Lamp power	20W	30W	40W	50W
LED qty	120pcs	120pcs	140pcs	140pcs
Lifespan of LED	50000 hrs			
Color temperature	6000-7000K			
Light distribution	Batwing lens with polarized light			
Lighting time	5-7 rainy days			
Working temperature	-20°C~60°C(Charge above 0°C)			
Top diameter of pole	60mm	60mm	60mm	60mm
Mounting height	5-6m	7-8m	7-8m	8-10m
Installation spacing	20-40m			

All In Two Solar Street light

Feature

-  **Battery Power indicator:** To check lamp's charge and discharge conveniently
-  **Intelligent power control:** Judge recent climate plan the reasonable discharge power
-  **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:** The illumination area and angle of light can be adjusted reasonably according to the width of the road
-  **IPC 5.0 Technology:** Through 10years' experience, Road Smart 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 more rainy days

Applications



Solar Street Light (YP series)



Parameters

Type	YP-150	YP-200-A	YP-200
Solar panel	150W/18V	150W/18V	200W/18V
LiFePO4 battery	576WH	640WH	640WH
Charge cycle times	2000 times	2000 times	2000 times
Luminous flux	9600LM	12800LM	12800LM
Lamp power	60W	70W	70W
LED qty	140pcs	140pcs 5050	140pcs 5050
Lifespan of LED	50000 hrs		
Color temperature	6000-7000K		
Light distribution	Batwing lens with polarized light		
Lighting time	5-7 rainy days		
Working temperature	-20°C~60°C(Charge above 0°C)		
Top diameter of pole	60mm	60mm	60mm
Mounting height	8-10m	8-10m	10-12m
Installation spacing	30-40m		

All In Two Solar Street light

Feature



Battery Power indicator: To check lamp's charge and discharge conveniently



Intelligent power control: Judge recent climate plan the reasonable discharge power



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



IPC 5.0 Technology: Through 10years' experience, Road Smart 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 more rainy days

Applications



HS Solar Street Light








Parameters

Type	RS-HS300	RS-HS400	RS-TS300	RS-TS400
Solar panel	2*150W/18V	2*200W/18V	2*150W/18V	2*200W/18V
LiFePO4 battery	1536WH	1920WH	1536WH	1920WH
Charge cycle times	2000 times			
Luminous flux	16000LM	20800LM	16000LM	20800LM
Lamp power	100W	130W	100W	130W
LED qty	400pcs			
Lifespan of LED	50000 hrs			
Color temperature	6000-6500K			
Light distribution	Batwing lens with polarized light			
Lighting time	5-7 rainy days			
Working temperature	-20°C~60°C(Charge above 0°C)			
Top diameter of pole	60mm	60mm	60mm	60mm
Mounting height	8-10m	8-12m	8-10m	8-12m
Installation spacing	25-35m			

All In Two Solar Street light

Feature

-  **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
-  **MPPT Technology:** MPPT is an advanced charge mode whose full name is Maximum Power Point Tracking function which can increase the energy utilization rate by 15% to 20% than the PWM controller
-  **Multi-Peak MPPT:** Road Smart 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
-  **IPC 5.0 Technology:** Through 10years' experience, Road Smart 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 more rainy days
-  **3.2V MPPT Technology:** The single-string 3.2V MPPT technology reduces the probability of battery problems by 75% than that of multi-string 12V technology, effectively improved the overall product stability and extended lifetime over 3 times

Applications



Solar Garden Light

Solar Garden Light

Solar Beetle Light



Parameters

Type	RS-BL30000	RS-BL40000	RS-BL50000
Solar panel	30W/5V	30W/5V	60W/5V
LiFePO4 battery	64WH	128WH	160WH
Charge cycle times	2000 times		
Luminous flux	1600-1700LM	2600-2700LM	3300-3600LM
Lamp power	9W	15W	20W
LED qty	80pcs		
Lifespan of LED	50000 hrs		
Color temperature	3000-7500K		
Light distribution	Batwing lens with polarized light		
Lighting time	5-7 rainy days		
Working temperature	-20°C~60°C(Charge above 0°C)		
Mounting height	4-5m		
Installation options	pole,lawn,wall		

Feature



Battery Power indicator: To check lamp's charge and discharge conveniently



Intelligent power control: Judge recent climate plan the reasonable discharge power



Battery Program Updated: Embedded single string control technology. More stable and longer lifespan



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



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

Applications





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