



**SHONA**  
2025 New Series



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**LED Solar / Hybrid Light**  
**LED Emergency Light**



# LED Solar Light SHONA

## Meaning of the Name:

### Light & Hope

"SHONA" originates from the African Shona language, meaning "radiance" or "shine," symbolizing how the solar streetlight brings lasting, clean illumination to the night, lighting the way forward and spreading warmth and hope.

### Nature & Sustainability

The soft, natural tone of the name (resonating with words like "shining") reflects the green attributes of solar technology, embodying eco-friendliness, energy efficiency, and harmony with nature.

### Global Vision & Local Care

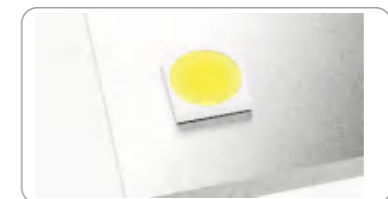
The African-inspired name conveys an international perspective while subtly suggesting the product's adaptability to diverse environments (urban, rural, remote areas), representing an inclusive "light for all" philosophy.



## Advantages



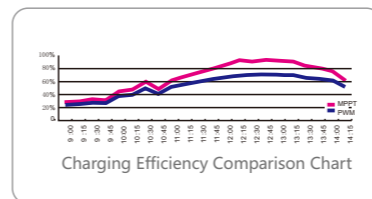
- One-piece die-casting, overall protection, open without tools. Easy maintenance and installation. Support angle adjustment and vertical/horizontal installation;



- A new generation of SMD high-brightness outdoor led lamp beads, combined with an integrated lens and lower current drive, the overall lighting effect is increased by about 10%, and the light decay is lower;



- Professional secondary optical design, specially designed for solar street lights, maximally equalizes individual parameters, and at the same time extremely reduces color reproduction caused by secondary optics;



- MPPT control exerts the maximum power of the battery board, which improves the energy utilization rate by 15%~20% compared with ordinary controllers;



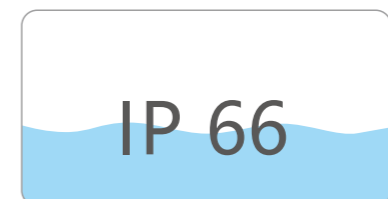
- First-line brand A-grade batteries have higher energy density, combined with a new generation of protection boards and temperature control protection, the cycle life is longer and safer. A variety of ternary/iron-lithium batteries are optional;



- World-class monocrystalline silicon wafers, improved packaging materials and processes, improved light transmittance, anti-aging performance, and power generation capacity;



- All-metal aluminum alloy structure, the main die-cast, can easily withstand 4 times its own gravity, and dare to face bad weather. At the same time, the surface of the whole lamp is sprayed with outdoor powder to prevent corrosion and rust;



- The overall structure waterproof design is adopted to prevent glue waterproofing, and the waterproof level is  $\geq$  IP66;



- 2G/4G intelligent control system, support custom sensors;



## JD-SL1077 LED Solar Light

### SHONA – Let nature's light brighten every night.

#### Product Features:

- 1.High-Efficiency Split Design**  
Solar panel and lamp head are separately installed, allowing flexible adjustment for optimal sunlight absorption.  
Modular structure enables easy maintenance, reducing long-term costs.
- 2.Smart Energy-Saving System**  
Dual mode (light control + motion sensor) auto-adjusts brightness for extended battery life.  
Operates continuously for 5-7 days in rainy weather, adapting to harsh climates.
- 3.Eco-Friendly & Durable**  
High-efficiency monocrystalline solar panels, zero carbon emissions.  
IP66 waterproof/dustproof rating, withstands extreme temperatures (-40°C ~50°C).
- 4.Humanized Aesthetics**  
Sleek, minimalist design with elegant curves, blending the grace of "SHONA" into industrial aesthetics to enhance urban/rural landscapes.

LED Solar Light  
**SHONA**

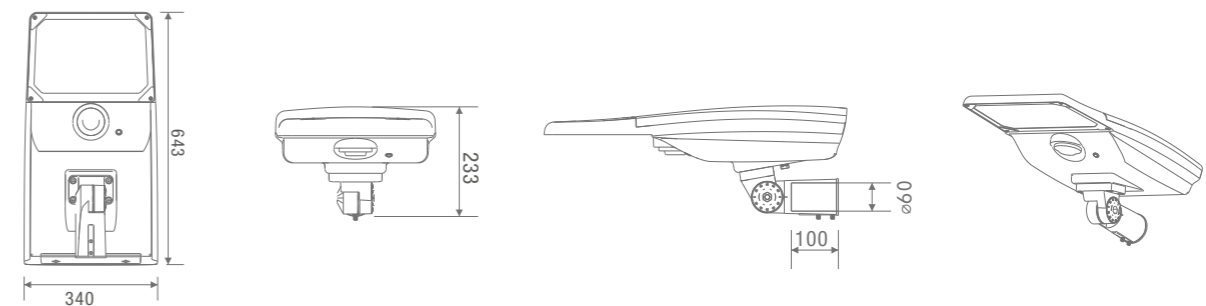


#### Specification

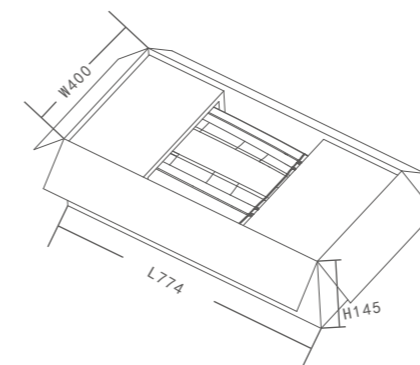
Product Code	JD-SL1077A	JD-SL1077B	JD-SL1077C	JD-SL1077D	JD-SL1077E
Rate Power	40W	50W	60W	70W	80W
LED Quantity (3030)	180PCS				
Luminous Flux (3030)	150-180LM/W				
Lens	15pcs 12in1				
LED Quantity (5050)	60pcs				
Luminous Flux (5050)	170-200LM/W				
Lens	15pcs 4in1				
Solar monocrystalline silicon panel	150W 18V	180W 18V	200W 18V	250W 18V	300W 18V
Battery capacity	48AH 12.8V	60AH 12.8V	72AH 12.8V	84AH 12.8V	96AH 12.8V
Battery type	LifePO4				
Installation Pipe Dia	ø60				
Charge time	4-6h				
Discharge time	full wattage: 1 day/ 12 hours, smart version: 3-5 days.				
CRI	RA70				
CCT	6500/4000/3000K				
SDCM	<5				
Temperature of working condition	-40°C ~50°C				
humidity of working condition	20% -90%				
LED life time	100000h				
IP Rating	IP66				
IK Rating	IK10				
Body Material	ADC12				
Housing Color	RAL7040 Sand window grey(Default)/Customizable				
Lens Material	PC(Default)/PMMA				
Warranty	3 years				
Installation Height	3-5m			4-6m	
Net Weight	10.9KG	12.1KG	13.3KG	14.5KG	15.7KG
Gross Weight	11.9KG	13.1KG	14.3KG	15.5KG	16.7KG
Light Size	643x340x233mm	643x340x233mm	643x340x233mm	643x340x233mm	643x340x233mm
Light Packing Size	774x400x145mm	774x400x145mm	774x400x145mm	774x400x145mm	774x400x145mm
Solar Panel Size	1040x760x30mm	1320x670x30mm	1530x670x35mm	1620x760x35mm	1645x880x35mm
Solar Panel Packing Size	1055x755x80mm (2 pcs/ctn)	1335x685x80mm (2 pcs/ctn)	1545x685x90mm (2 pcs/ctn)	1635x775x55mm (1 pcs/ctn)	1660x895x55mm (1 pcs/ctn)

Packing size is outer size of box All parameters are measured at 25°C ambient temperature, 35% humidity experimental environment.

#### Product Dimension



#### Packaging Specification



# JD-SH1077 LED Solar Hybrid Light



## Product Features:

The mains-complementary solar light is an intelligent lighting system that combines both solar power and mains electricity. It primarily operates on solar energy, but automatically switches to mains power when solar supply is insufficient (e.g., during continuous rainy weather), ensuring consistent and reliable illumination.

This system not only reduces electricity costs but also guarantees lighting stability, particularly during periods of limited sunlight, such as overcast or rainy days. It can automatically adjust light source power on a timer and features an intelligent controller with multiple protective functions.

## Applicable Scenarios:

1. Urban main roads, residential area pathways, industrial parks, parking lots, and tourist attractions-places where all-night lighting is essential.
2. Energy-efficient retrofitting of existing mains-powered streetlights: If conventional mains-powered streetlights with intact wiring are already in place, retrofitting them into mains-complementary solar lights can significantly reduce installation costs by utilizing the existing cables, while also providing substantial savings on electricity bills.
3. Regions with moderate solar resources but strong energy-saving demands: In areas where purely solar-powered lights may fail to ensure adequate illumination during winter or rainy seasons, the mains-complementary solution offers an ideal compromise.

LED Solar Hybrid Light

# SHONA

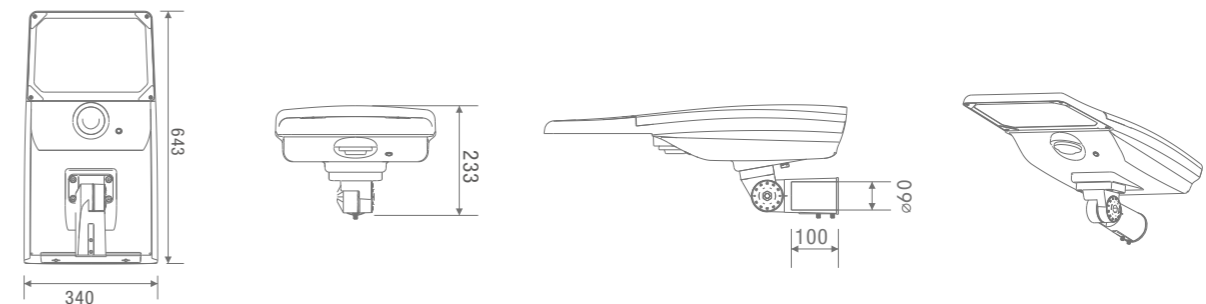


## Specification

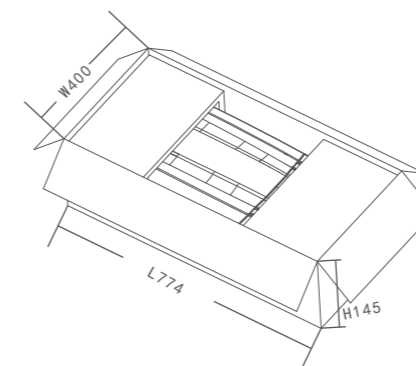
Product Code	JD-SH1077A	JD-SH1077B	JD-SH1077C	JD-SH1077D
Rate Power	30W	40W	50W	60W
LED Quantity (3030)	180PCS			
Luminous Flux (3030)	150-180LM/W			
Lens	15pcs 12in1			
LED Quantity (5050)	60pcs			
Luminous Flux (5050)	170-200LM/W			
Lens	15pcs 4in1			
Input Voltage	AC 110V-240V			
Frequency Range	50-60Hz			
Power Factor(PF)	PF > 0.95			
SPD	10KV(Default)/20KV			
Solar monocrystalline silicon panel	120W 18V	150W 18V	180W 18V	200W 18V
Battery capacity	36AH 12.8V	48AH 12.8V	60AH 12.8V	72AH 12.8V
Battery type	LifePO4			
Installation Pipe Dia	ø60			
Charge time	4-6h			
Discharge time	full wattage: 1 day/ 12 hours, smart version: 3-5 days			
CRI	RA70			
CCT	6500/4000/3000K			
SDCM	<5			
Temperature of working condition	-40°C~50°C			
humidity of working condition	20%-90%			
LED life time	100000h			
IP Rating	IP66			
IK Rating	IK10			
Body Material	ADC12			
Housing Color	RAL7040 Sand window grey(Default)/Customizable			
Lens Material	PC(Default)/PMMA			
Warranty	3 years			
Installation Height	3-5m			4-6m
Net Weight	10.9KG	12.1KG	13.3KG	14.5KG
Gross Weight	11.9KG	13.1KG	14.3KG	15.5KG
Product Size	643x340x233mm	643x340x233mm	643x340x233mm	643x340x233mm
Packing Size	774x400x145mm	774x400x145mm	774x400x145mm	774x400x145mm

Packing size is outer size of box All parameters are measured at 25°C ambient temperature, 35% humidity experimental environment.

## Product Dimension



## Packaging Specification

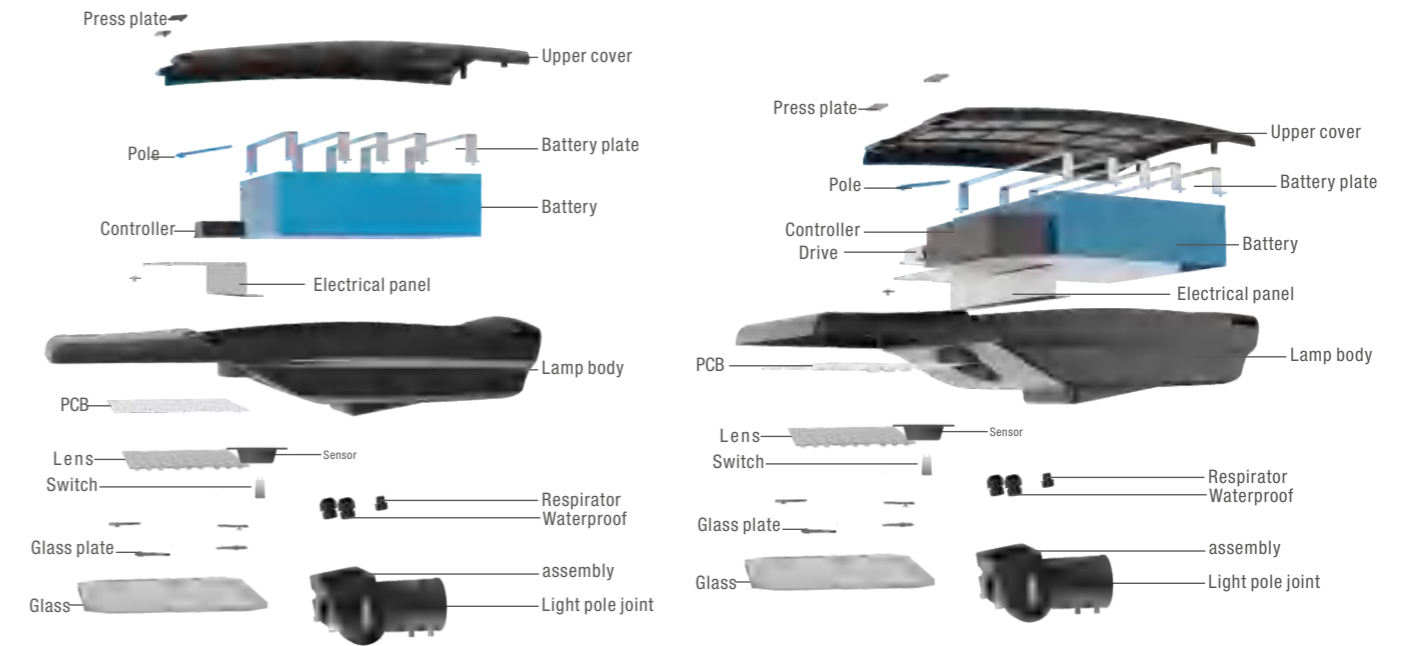




LED Solar Hybrid Light

# SHONA

Exploded View Drawing



## JD-SL1077

## JD-SH1077

### Design Highlights 1:

Tool-Free Product Access: Features hand-twist screws for easy opening and closing of the electrical compartment.

### Design Highlights 2:

Integrated Support Rod: A dedicated support rod holds the upper cover in place after opening, facilitating convenient maintenance and installation.

### Design Highlights 3:

Spacious Electrical Compartment: Designed with 32700 batteries as standard cells, supporting configurations up to 96Ah 12.8V (1228Wh). For 80W lamp, this enables full-power operation for 12-13 hours.

### Design Highlights 4:

Dual Vertical/Horizontal Mounting: Equipped with an adjustable joint to accommodate both installation modes.  
Note: Horizontal mounting supports a 15° tilt angle.

### Design Highlights 5:

Modular Electronic Components: Each electronic module is independently installed and replaceable, streamlining future upgrades and repairs.

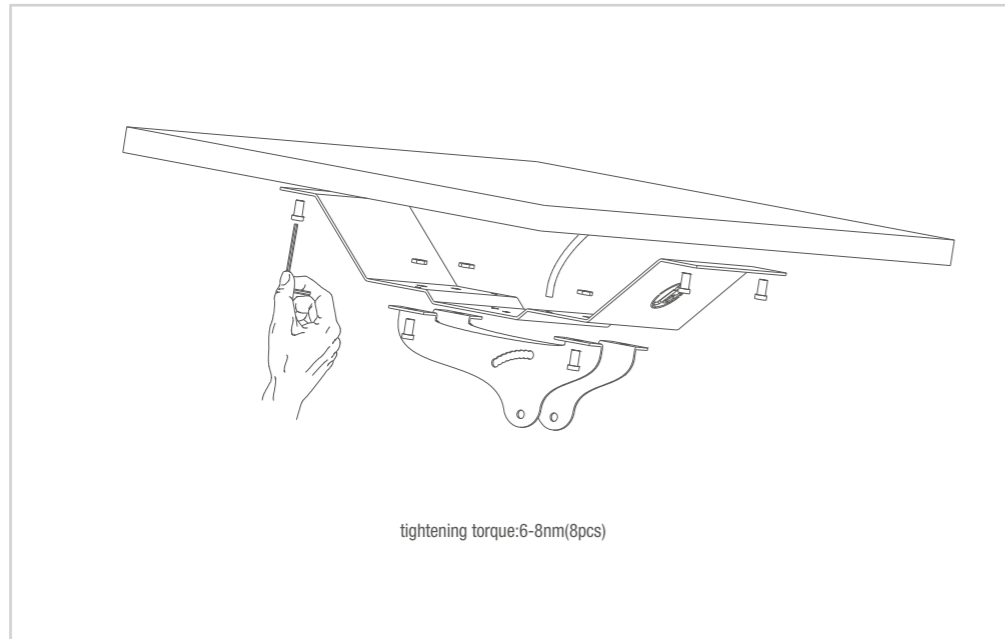
### Design Highlights 6:

High-Performance Outdoor Luminaire: Rated IP66 for dust/water resistance and IK10 for impact resistance.

### Design Highlights 7:

Versatile Beam Angles: Utilizes 50x50 small square lenses, offering a wide selection of angles to meet both street lighting and garden lighting requirements.

Lamp Installation Instructions



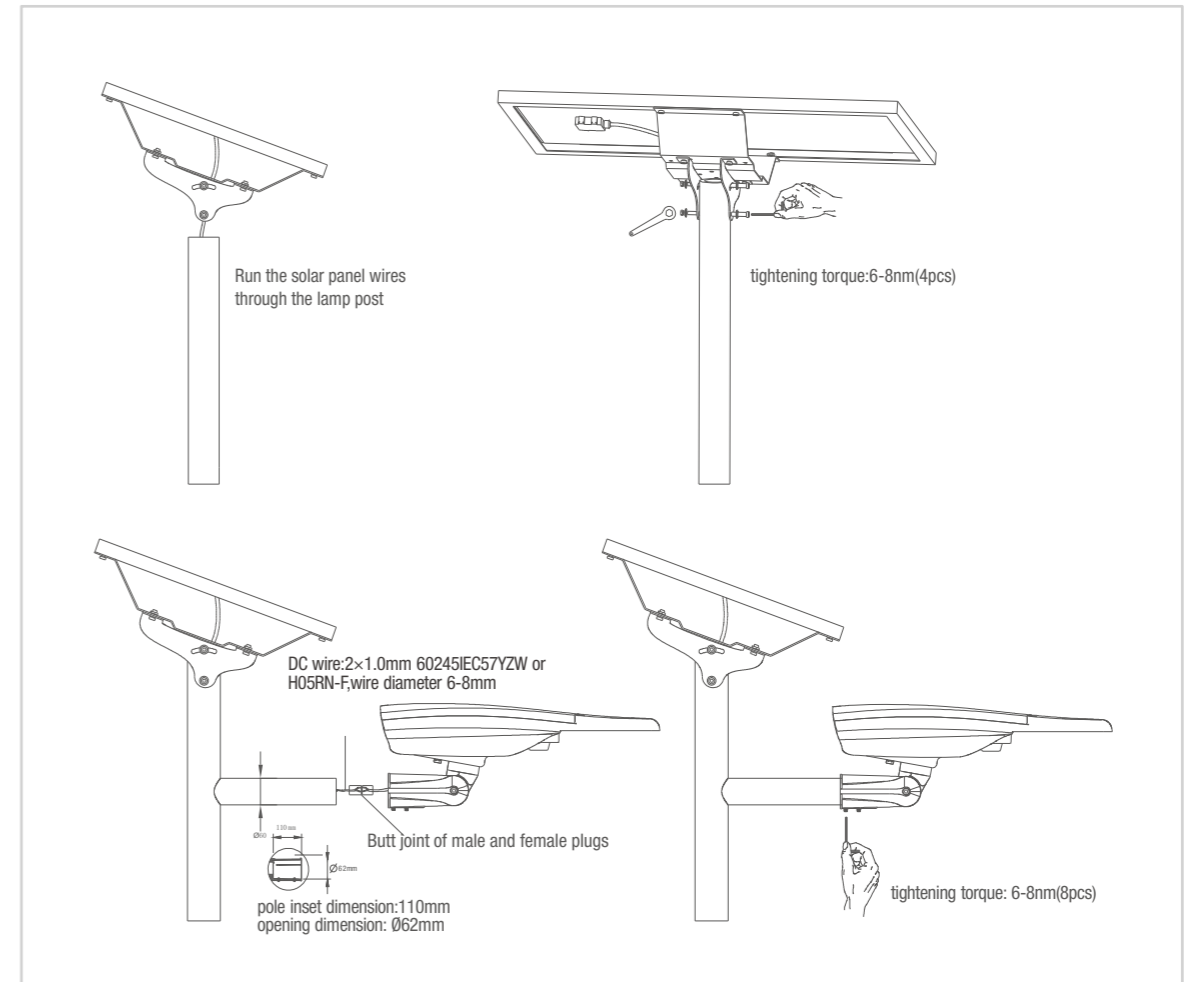
Lamp activation conditions:

put the lamp under the sun so that the solar panel can absorb light. About a minute or two after the LED lights up and same as the inductive probe red light.

After a few seconds, the LED goes out again, the sensor's red light flashes slowly (at this time the light is charging mode), and the solar panel needs to be continuously illuminated for one to two minutes to complete the activation.

Verify activation: after covering the solar panel for a few seconds, the lamp is still working properly which means system activated successfully, otherwise it means failed to active. Please repeat the above activation steps to activate and extend the solar panel to receive light time if fail to active.

horizontal installation



1. The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.
2. No supplied water-proof box, installation should be advised by qualified professional.
3. Do not switch on before complete installation.
4. If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.
5. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.



# JD-EL1077 LED Emergency Light

LED Street Light  
**SHONA**

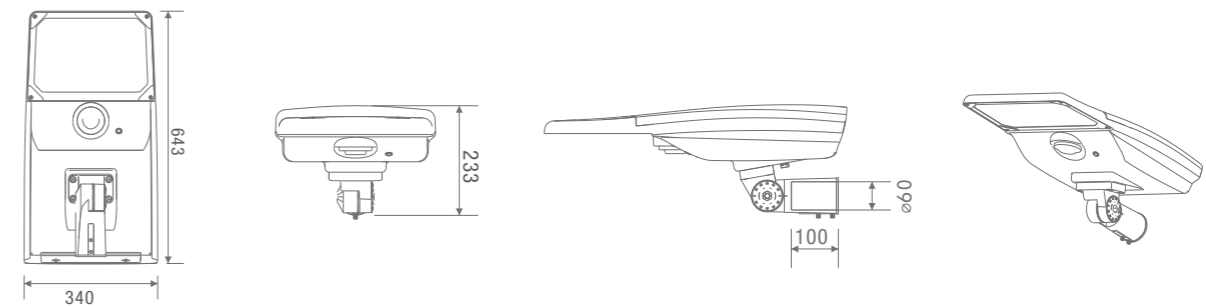


### Specification

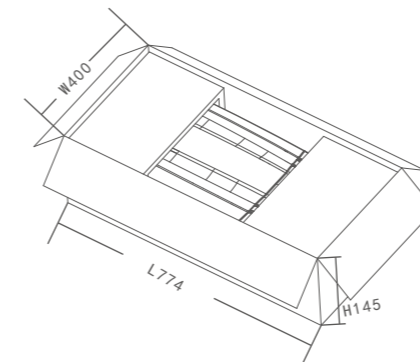
Product Code	JD-EL1077A	JD-EL1077B	JD-EL1077C	JD-EL1077D	JD-EL1077E
Rate Power	60W	80W	100W	120W	140W
LED Quantity (3030)	180PCS				
Luminous Flux (3030)	150-170LM/W				
Lens	15pcs 12in1				
LED Quantity (5050)	60pcs				
Luminous Flux (5050)	150-170LM/W				
Lens	15pcs 4in1				
Input Voltage	AC176-305V				
Frequency Range	47-63Hz				
Power Factor(PF)	PF>0.95				
SPD	10KV(Default)/20KV				
Battery capacity	144AH 3.2V	192AH 3.2V	240AH 3.2V	288AH 3.2V	336AH 3.2V
Battery type	LifePO4				
Installation Pipe Dia	60				
Discharge time	6h*100% Total/night, Time control, Dimming mode				
Communication mode	4G、LoRa、Wi-SUN				
CRI	RA70				
CCT	6500/4000/3000K				
SDCM	<5				
Temperature of working condition	-40°C~50°C				
humidity of working condition	20%-90%				
LED life time	100000h				
IP Rating	IP66				
IK Rating	IK10				
Body Material	ADC12				
Housing Color	RAL7040 Sand window grey(Default)/Customizable				
Lens Material	PC(Default)/PMMA				
Warranty	5 years				
Installation Height	3-5m			5-7m	
Net Weight	10.9KG	12.1KG	13.3KG	14.5KG	15.7KG
Gross Weight	11.9KG	13.1KG	14.3KG	15.5KG	16.7KG
Product Size	643x340x233mm	643x340x233mm	643x340x233mm	643x340x233mm	643x340x233mm
Packing Size	774x400x145mm	774x400x145mm	774x400x145mm	774x400x145mm	774x400x145mm

Packing size is outer size of box All parameters are measured at 25°C ambient temperature, 35% humidity experimental environment.

### Product Dimension



### Packaging Specification





# JD-EL1077 LED Emergency Light

LED Street Light  
**SHONA**



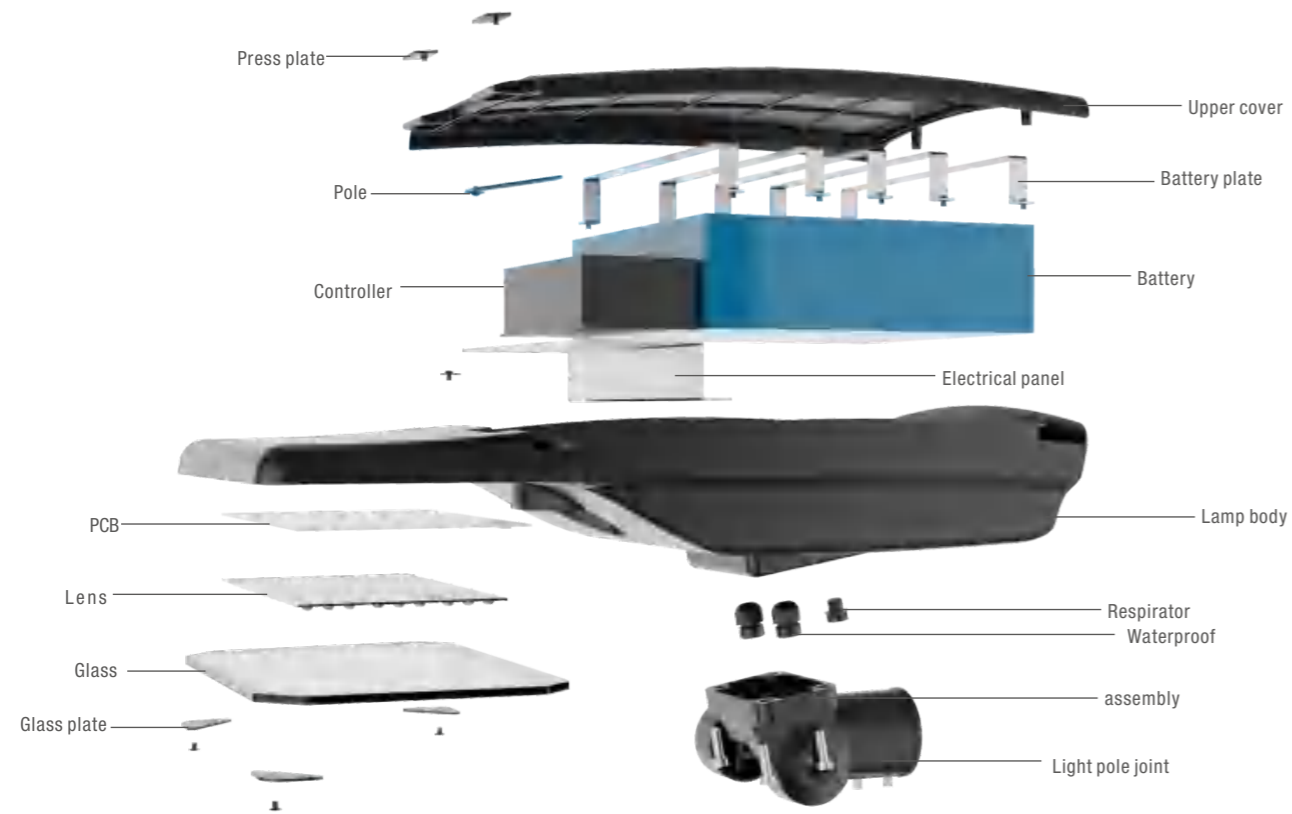
### Main Performance Features of the IoT Energy Storage Lighting Controller:

- Supports mains charging with configurable peak/off-peak time settings for charging during off-peak hours, optimizing energy usage.
- Equipped with constant current drive function, supports dual-mode operation (battery/mains) for LED lamp drive.
- 6-level adjustable LED brightness to adapt to different lighting scenarios (e.g., 19:00-22:00 100% brightness, 22:00-05:00 50% brightness, 05:00-06:00 80% brightness, etc.).
- Built-in communication module supports remote connectivity and control.
- Over-charge, over-discharge, over-load protection, and reverse connection protection.
- IP67 waterproof rating with aluminum alloy housing, suitable for harsh outdoor environments.
- Multi-communication compatibility: supports 4G, LoRa, and Wi-SUN, allowing flexible selection based on application scenarios.
- Comprehensive remote monitoring: via an IoT cloud platform (accessible on PC and mobile), real-time data viewing of the lamp controller and lighting equipment, including lighting power, brightness level, battery voltage/current/state of charge (SOC), ambient temperature and humidity, etc.
- Data interaction and sharing: supports integration with third-party platforms such as urban smart lighting management systems and park energy management systems (compatible with MQTT, HTTP, CoAP, and other protocols), enabling data interconnection and supporting overall smart management.

### Application Scenarios:

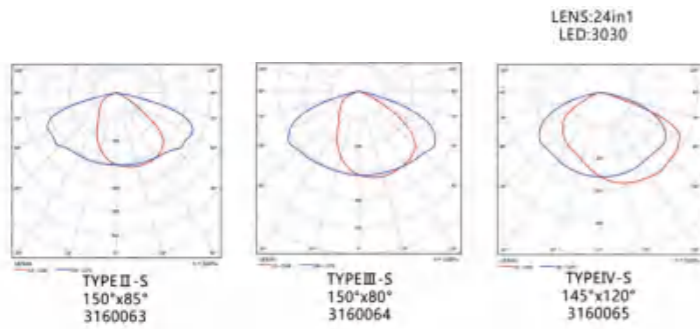
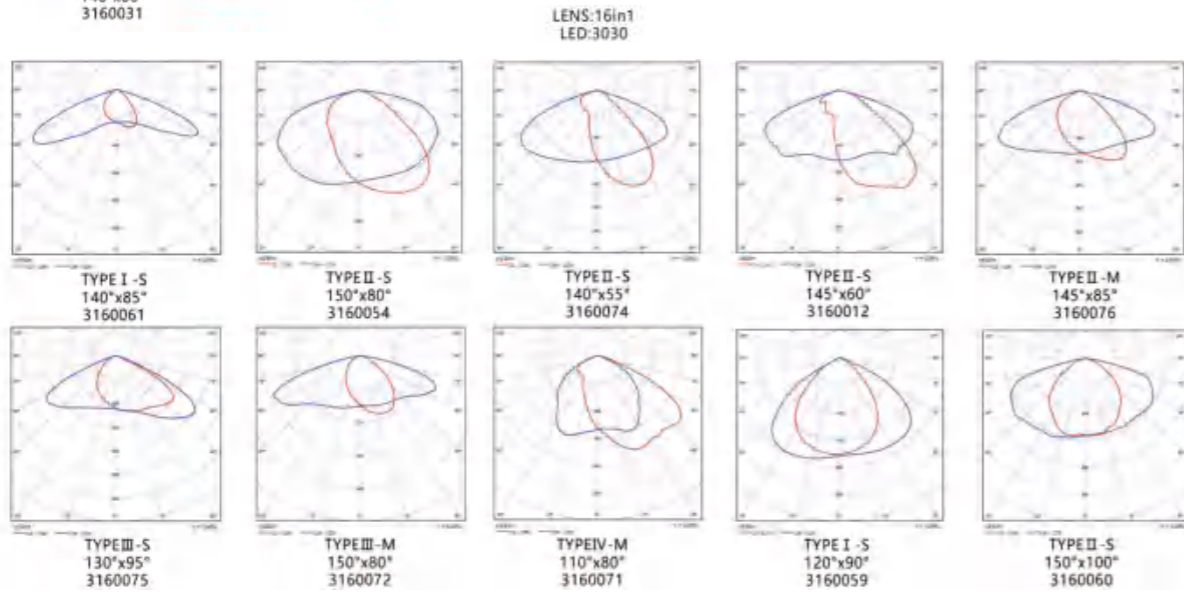
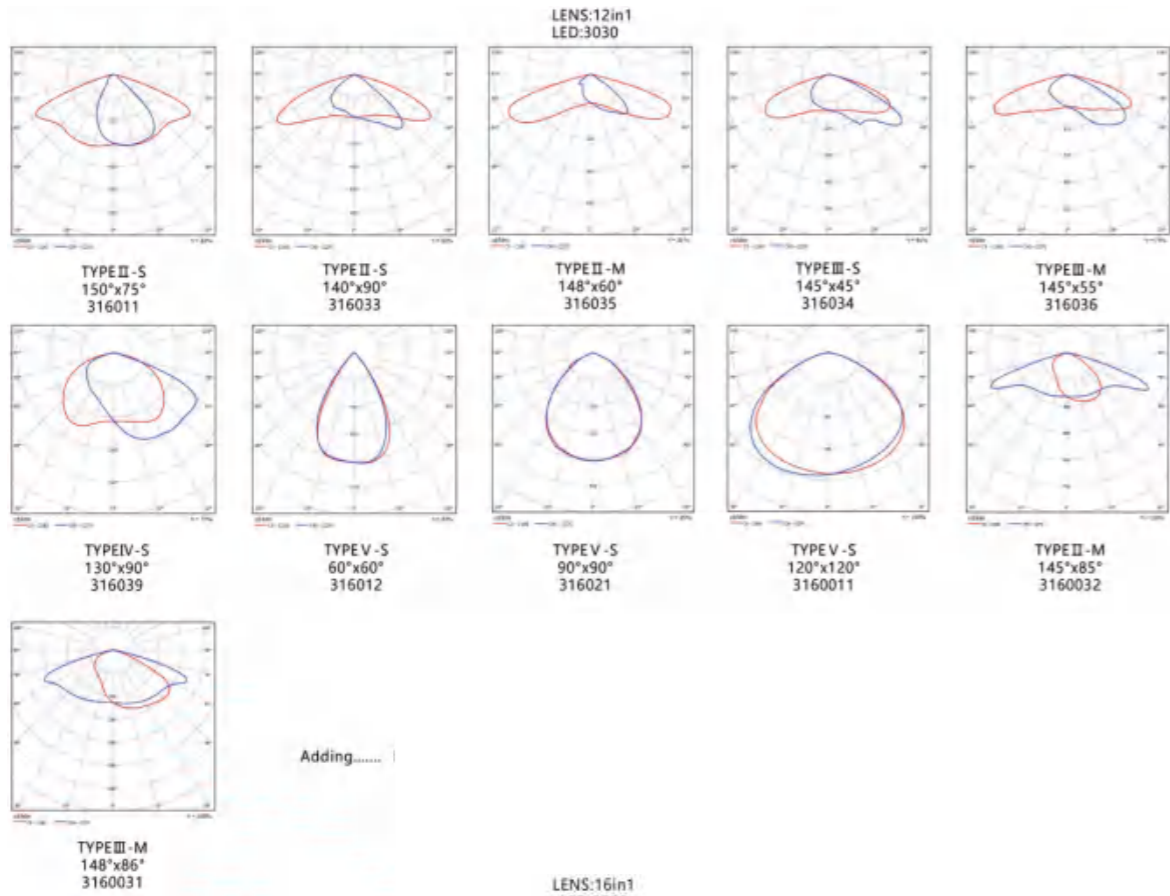
- Municipal Road Lighting: Remote dimming and fault alarms to reduce operational costs.
- Park/Scenic Area Lighting: Time-based brightness adjustment to balance energy efficiency and aesthetics.
- Areas Without Mains Power: Pure battery-driven mode, suitable for remote regions or temporary lighting.
- Emergency Lighting Systems: Integrated with remote monitoring for rapid response to power outages.

Exploded View Drawing

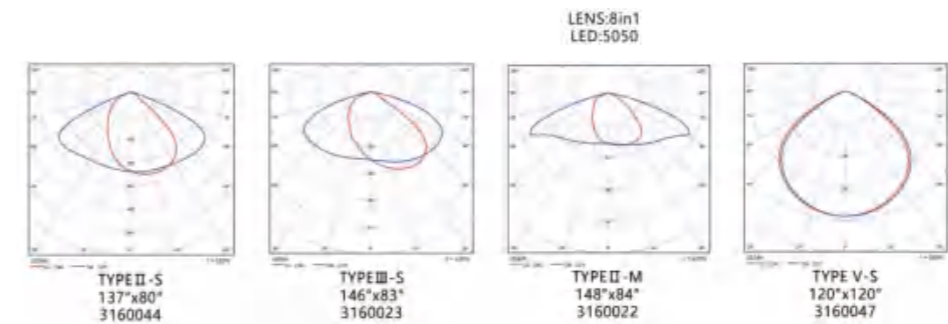
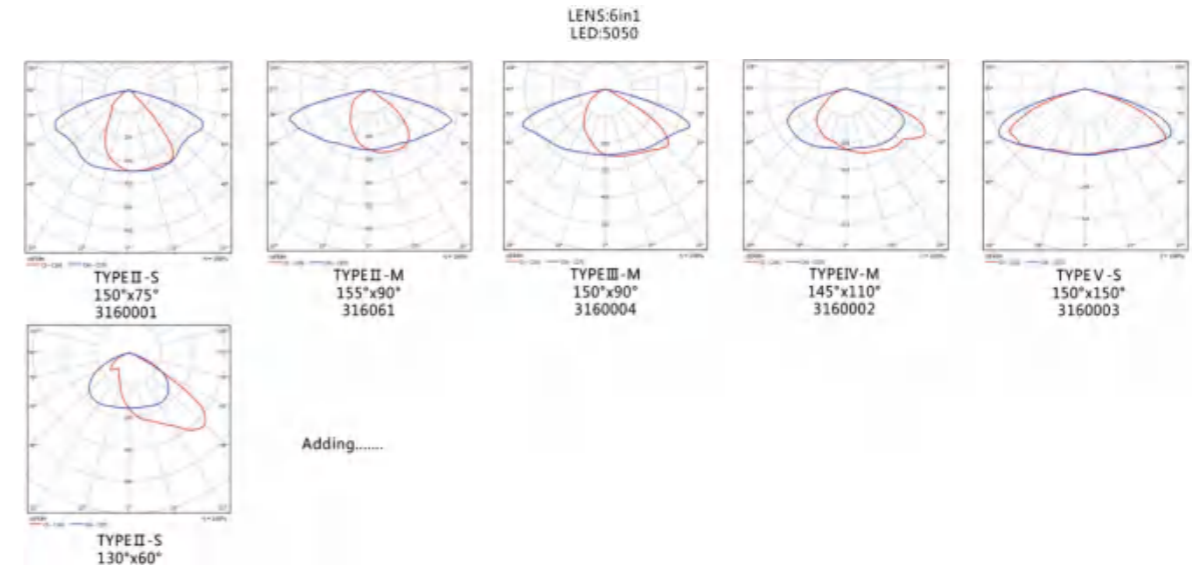
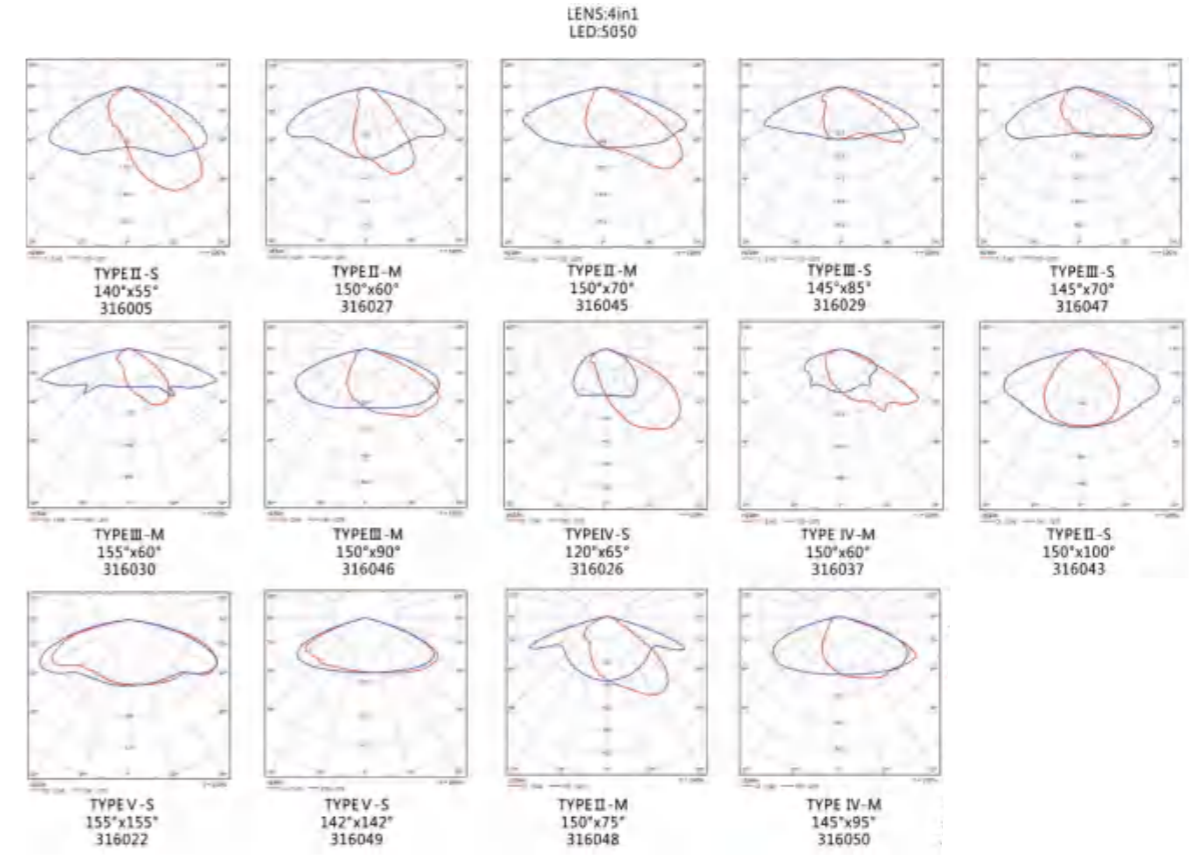


### Specification

Project	Parameters	80	150	Note:
Mains Input	Input Voltage Range	176-305Vac		
	Input Frequency Range	47Hz-63Hz		
	Power Factor	0.95 ( Typical values )		
	Peak Power	180W	300W	
LED Output	Output Voltage	38-60V		
	Output Power	80W	150W	
	Output Current	0.18-2A	0.36-3.6A	10%-100%
	Mains-Driven Output Efficiency	92%	91%	
	Battery-Driven Output Efficiency	91%	90%	
Battery	Battery Voltage Range	2.5V-3.6V		1 Series-connected LiFePO4
	Maximum Charging Power	100W	150W	
	Battery Charging Efficiency	90%	89%	
Others	Driver Lifespan	> 50000h		
	Communication Method	4G 、 Wi-SUN 、 LoRa		
	Software Functions	Remote Control, Peak Shaving and Valley Filling, Time-Based Dimming		Configurable
	Waterproof Rating	IP67		



Adding.....



Adding.....