

SPLIT

SOLAR STREET LIGHT

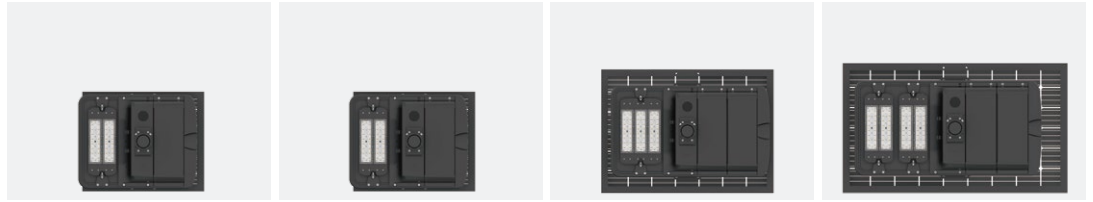
LD328

TECHNICAL SPECIFICATION



Plusrite[®]

LD328



MODEL NO.	LD328-45w	LD328-60W	LD328-100W	LD328-120W
Nominal Flux	9000lm	12000lm	20000lm	24000lm
Nominal Power	45W	60W	100W	120W
Nominal Efficient	200lm/W	200lm/W	200lm/W	200lm/W
Voltage	12.8VDC	12.8VDC	25.6VDC	25.6VDC
Lifetime @25°C	>100 000 h (this is only for the fixture)			
IK	IK08 (only for the fixture not including the panel)			
IP	IP66			
Class Protection	Class III			
Wind Test	>150 km/h			
LIGHTING				
Chips LED	Lumileds 5050			
Optics/CCT	2200K/3000K4000K/5000K			
Light height	5-6m	5-6m	6-7m	7-8m
CRI	>70			
BATTERY				
Technology	LiFePO4			
Capacity	358.4 (12.8/28ah)	460.8 (12.8/36ah)	614.4 (25.6/24ah)	921.6 (25.6/36ah)
Autonomy	>3 days even cloudy days (Auto Control)			
Charging time	5-6 hours			
Lifespan	Over 2000 CYCLES @ 80%			
Working temp	-20°C to 60 °C			
ENERGY				
Solar panel	60 Watts		120 Watts	150 Watts
Panel Adjustable	Horizontal/Vertical			
Panel type	Monocrystalline bi-facial			
ELECTRONIC				
Controller	MPPT SMART CONTROLLER			
Sensor	Motion Sensor			
Cabling	Waterproof Connector, Plug and Play			
Protection	Battery Management System (BMS)			
MECHANICAL				
Mounting	60mm			
Material	Aluminium, Iron and Stainless Steel			
DIMENSIONS				
Product	595*470*515mm		820*470*515mm	920*470*515mm



*We offer a five-year warranty on our fixtures.

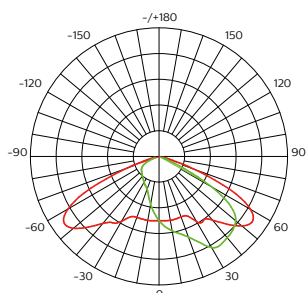
LUMINAIRE HOUSING & LEDS



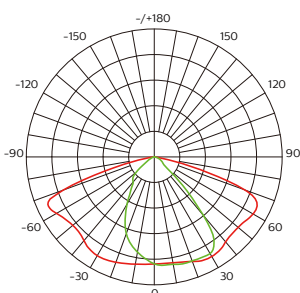
The main frame is an aviation aluminum profile using a one-piece roll-round process, with higher strength, better stability and better integrity.

Akzo high quality polyester powder coating, this powder coating has excellent salt, humidity and UV resistance. UV resistance maintains the color of the product.

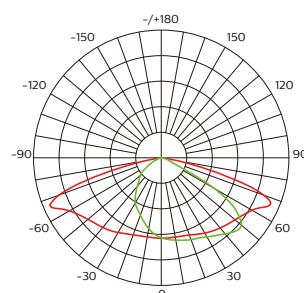
LIGHT DISTRIBUTION CURVES



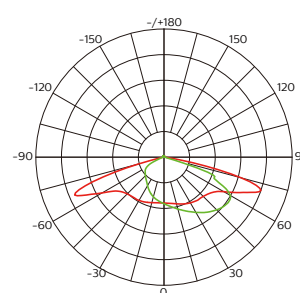
TYPE I



TYPE II

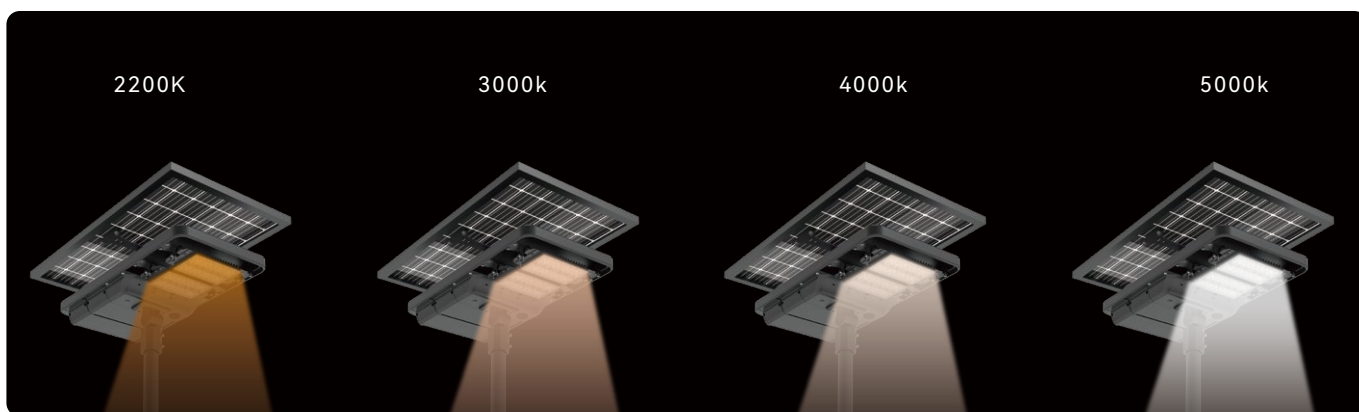


TYPE III



TYPE IV

SELECTABLE CCT



BATTERY LIFEPO4

The LD328 is equipped with Iron Phosphate Lithium LifePO4 battery. This technology is proved to be the best chemical technology for solar application on the market.

Adopting IFR32700 normal temperature lithium iron battery cell, with UL, CE certification.

With a cycle life of over 2000 Cycles @ 80% DOD.



ANTI-FALL DESIGN

The anti-fall lanyard design provides higher safety. The battery has a three-year warranty.



ALL-IN-ONE BATTERY PACK

LD328 adopts removable one-piece battery pack, with an aluminum waterproof casing, anti-fall design, convenient for late maintenance and replacement.

High temperatures greatly negatively affect the battery's lifespan. That's why our batteries are encapsulated in a high thermal conductivity aluminum casing for perfect heat dissipation.

- 20 °C TO 60 °C EXTREME TEMPERATURE

LD328 has a new Special LifePO4 battery with working environment temperature: charging temperature: 0-60°C, discharging temperature: -20°C~60°C.

COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES

LIFETIME & CYCLES AT 80% DOD*

Comparison of different battery technologies



Lead Acid
200



NimH
700



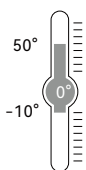
Lithium ION
800



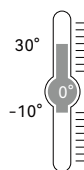
Lithium LifePO4
2 000

CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS

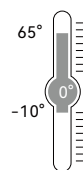
Minimum & Maximum temperature range for Optimal charging during the day



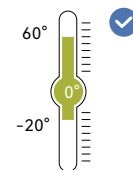
Lead Acid



NimH



Lithium ION



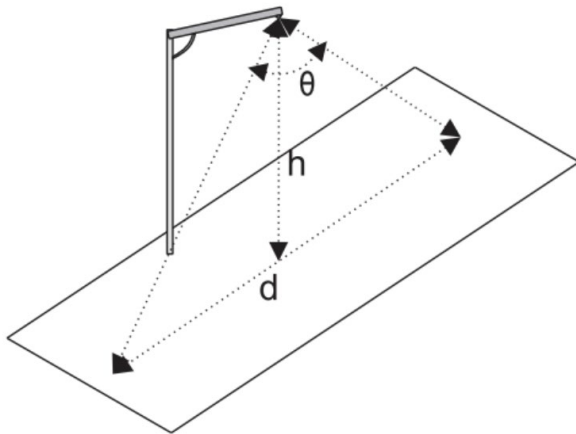
Lithium LifePO4

MOTION SENSOR MICROWAVE

LD328 are equipped with microwave detectors that use the Doppler effect (like car radars) to detect a nearby objects and measure the distance. The sensor emits a high frequency wave to reflect off of and analyze the objects in the vicinity.

Since the microwaves **only detect specific objects**, detection reliability increases resulting in :

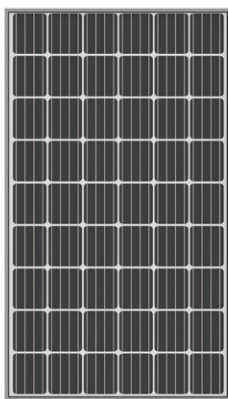
- Much better reliability compared to the Infrared detector
- Insensitivity to other environmental variations such as light, color, temperature, etc.



WB5

▶ θ (Angle) 50°	h (Height) 8m	d (Diameter) 10m
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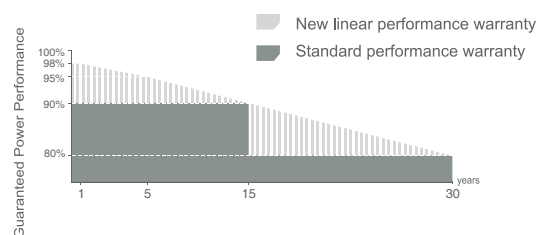
SOLAR PANEL



The modules can withstand high wind-pressure, snow loads and extreme temperatures

High efficiency mono-crystalline Solar panels. Double-sided solar panel design, with double-sided tempered glass integrated cover. Up to 21% efficiency, 5-10% higher than those covered by single-sided tempered glass. Enhanced waterproof, corrosion and impact resistance. Waterproof IP67.

PREMIUM PERFORMANCE WARRANTY



CONTROLLER MPPT

MPPT-DC series solar controller, specially designed for solar street light system, is an intelligent programmable boosting.



MPPT controllers are designed for solar street light system, which can increase the charging efficiency by about 20% compared with the traditional PWM controllers, and can reduce the cost of the whole street light system.

It can reduce the cost of the whole street light system.

- Innovative maximum power point tracking technology (MPPT), maximum power point tracking efficiency >99%.
- Full digital control technology, charging conversion efficiency up to 97.5%, discharge conversion efficiency up to 96.5%.
- Five-stage time and power adjustment, power 0~100% adjustable.
- Automatic power down operation can be set when the battery power is low.
- Automatic light control point adjustment function.
- Charging automatic power down operation when the temperature exceeds the set value to avoid high temperature damage to the controller.
- External temperature sensor, automatic temperature compensation (liquid, gel and AGM batteries).
- Four-stage charging: MPPT, strong charging, equalization charging, float charging.
- Li-ion battery low-temperature charging protection function, environmental temperature below zero degrees can be prohibited or slow charging.
- Li-ion battery pack transportation mode, load off on the way, activated after 1 second of installation.

Remote Control

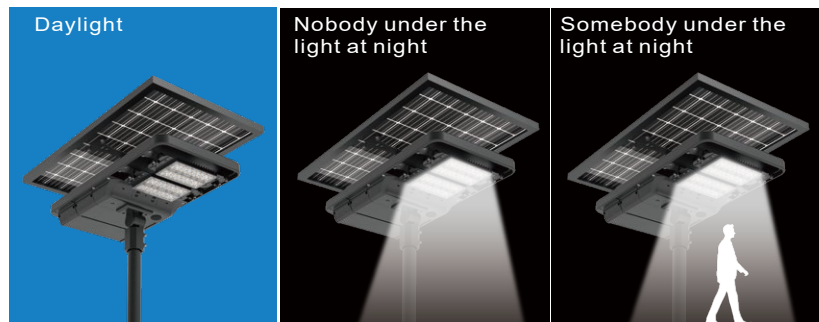
- Infrared remote control mode and wireless remote control mode can be --selected, wireless remote control distance can be selected.
- Wireless remote control has strong anti-interference ability and good penetration.
- Large LCD screen displays parameters and data.
- Simple and easy to understand interface design.
- No operation automatic sleep, ultra-low



- sleep power consumption; key to wake up.
- Two No.5 batteries power supply, battery capacity indication.
- Emergency lighting and SOS signal.

SENSOR CONTROL SYSTEM

It can be set according to the requirements of customers.

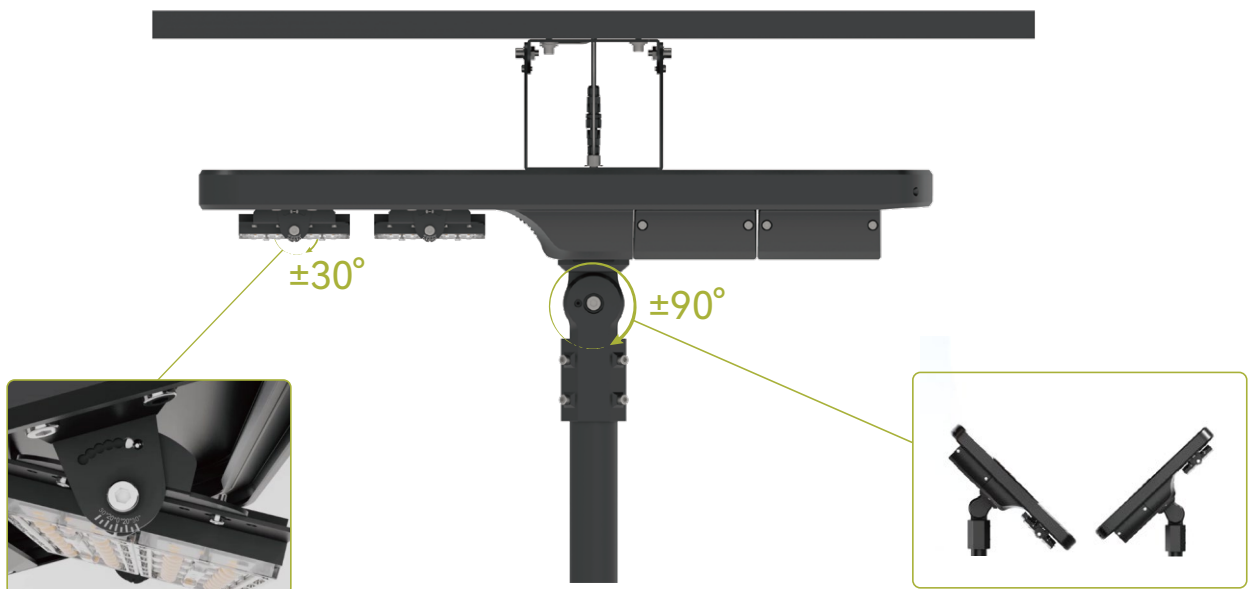


When the illumination is less than 10lux, it begins to work.	Induction time	Nobody under the light	Somebody under the light
	2H	30%	100%
	3H	20%	50%
	6H	10%	20%
	1H	10%	30%
Daylight	Automatic closing		

FOUR LEVEL ADJUSTMENT

SUPPORTING MAXIMUM ANGLE ADJUSTMENT

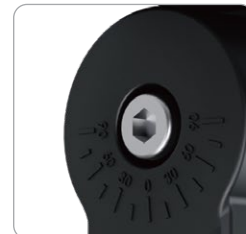
Split solar street light can be angled as needed to match the sun angle of the area to maximize utilization.



MOUNTING

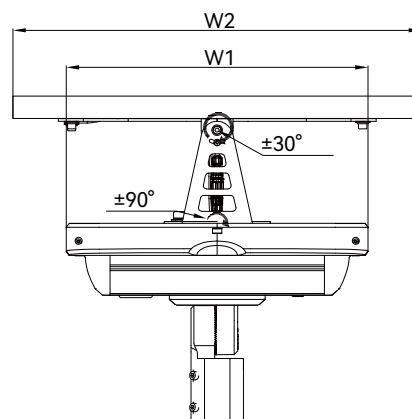
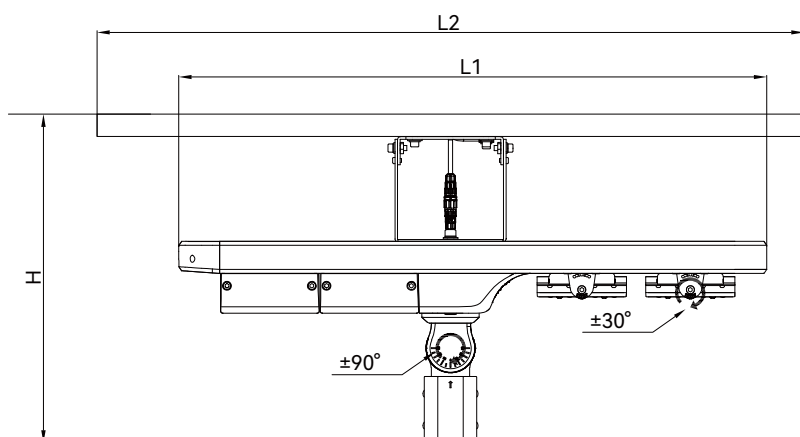
Slip Fitter Mount

Support for adjusting the angle



DIMENSIONS*

SOLAR PANEL & LED



Type	L1	L2	W1	W2	H
LD328-45W/60W	595mm	610mm	470mm	500mm	515mm
LD328-100W	820mm	890mm	470mm	500mm	515mm
LD328-120W	920mm	1110mm	470mm	640mm	515mm

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Contact Us



Official WeChat

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