

Big Dipper Series Integrated Solar LED Street Light

Quality is in Control

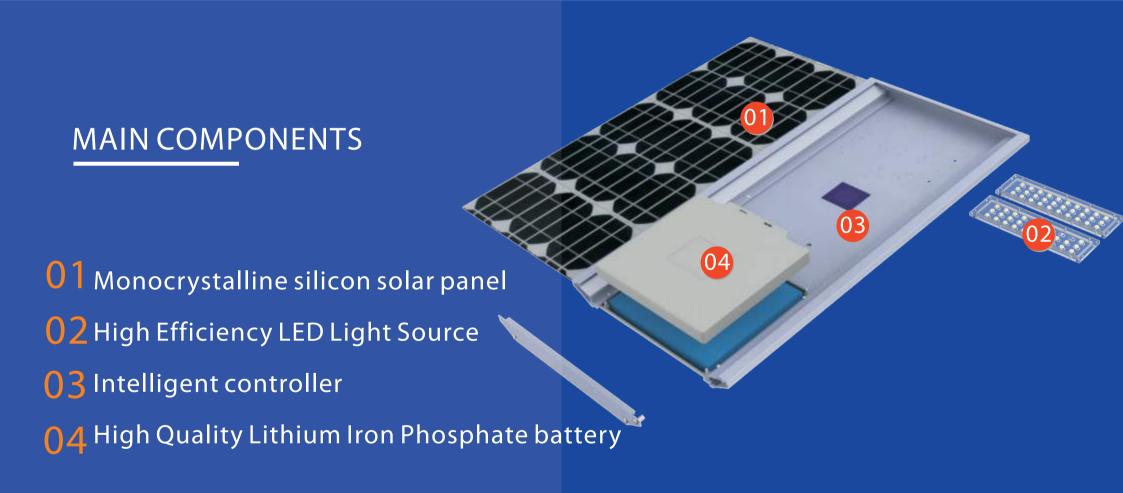
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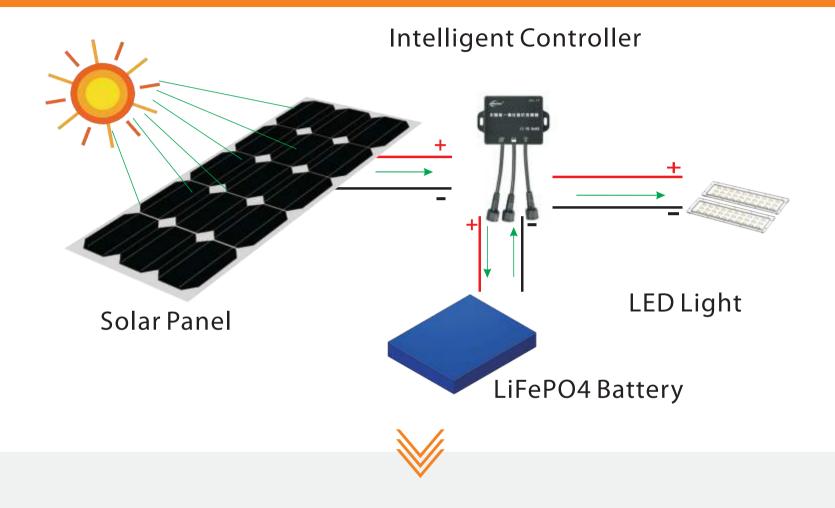




BRIEF INTRODUCTION



WORKING PRINCIPLE



In day, Solar panel absorbs sun radiation and adopted MPPT charge technology to convert power to charge lifepo4 battery; At night, intelligent controller auto turn on LED light intelligently control LED light working in different periodstime with dimmer.

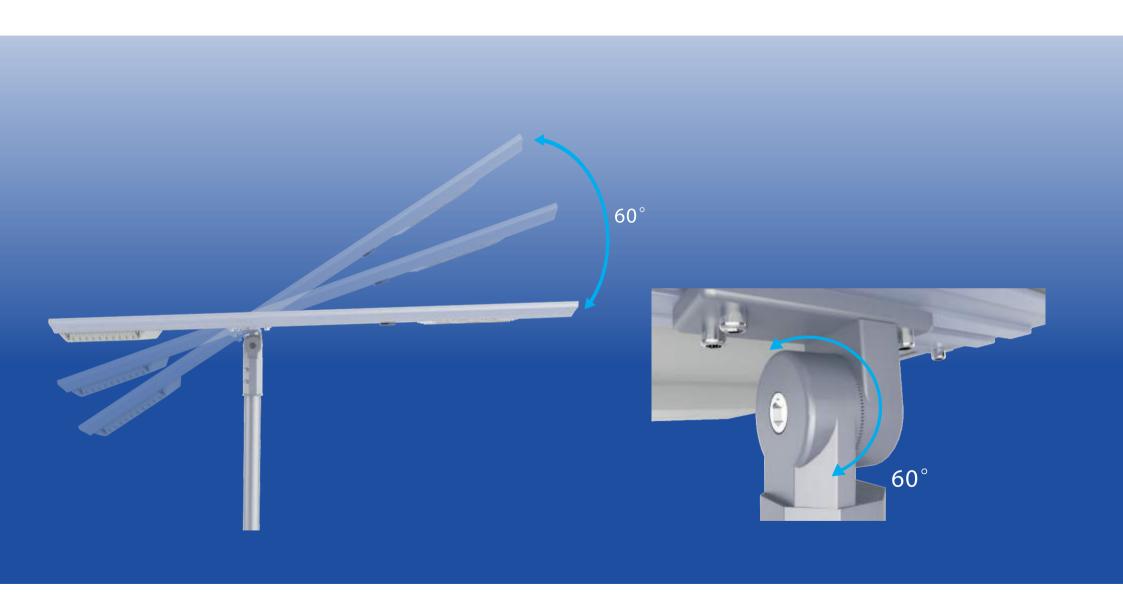
PRODUCT FEATURE

- 1. All-in-one design: solar panel, lifepo4 battery, led light, intelligent controller and aluminum case all in one, easy installing, convenient shipping.
- 2. Science and patent design, ultra-thin shape to anti-wind level 70m/sec
- 3. Adopt brand lifepo4 battery cell and combined with intelligent software BMS, which is the same working principle with Tesla battery management system, to extend battery lifespan to be more than 10 years
- 4. Intelligent controller with MPPT charge technology and microwave sensor/PIR sensor (Zigbee controller and GPRS/3G/4G communication system for option)
- 5. Different to tradition all-in-one solar lights, the battery pack is easily replaced.
- 6. Adopt monocrystalline silicon solar panel, higher charging efficiency
- **7.** Bridgelux LED chip with 160lm/w

ANTI-WIND LEVEL:70M/SEC

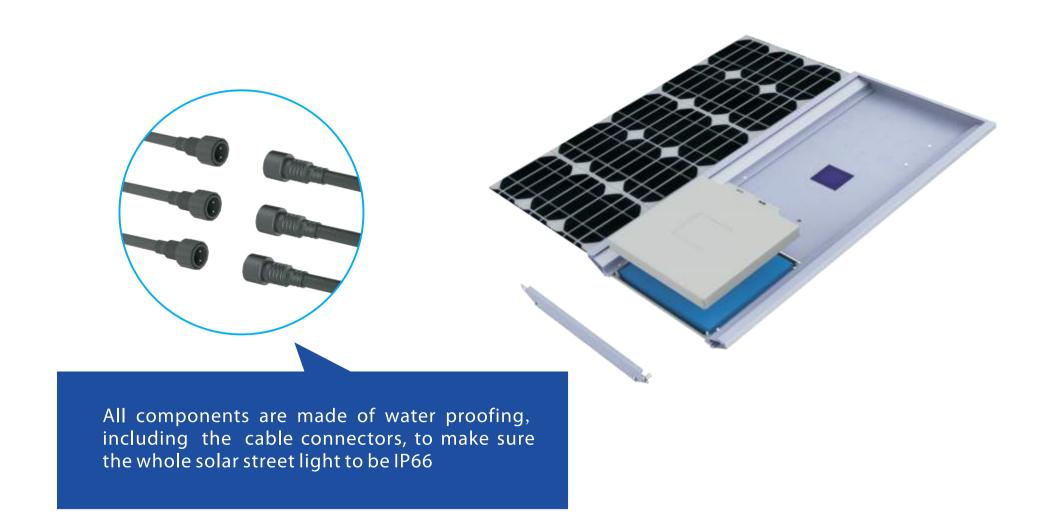


180° ADJUSTABLE



PROTECTION LEVEL IP66

Adopt silicon for waterproof, which can reach protection grade of Ip66.



POWDER COATING SHELL SURFACE

The whole aluminum shell surface is processed with powder coating, even under taking 500 hours of salt spray, the surface is not oxidized or damage, to adapt to inclement external environment.

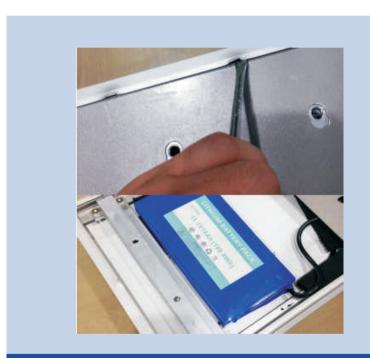


EASY AND CONVENIENT TO REPLACE INTERNAL COMPONENTS COMPARED TO OTHER SIMILAR PRODUCTS

BD-X3 from JINSDON



Other similar products

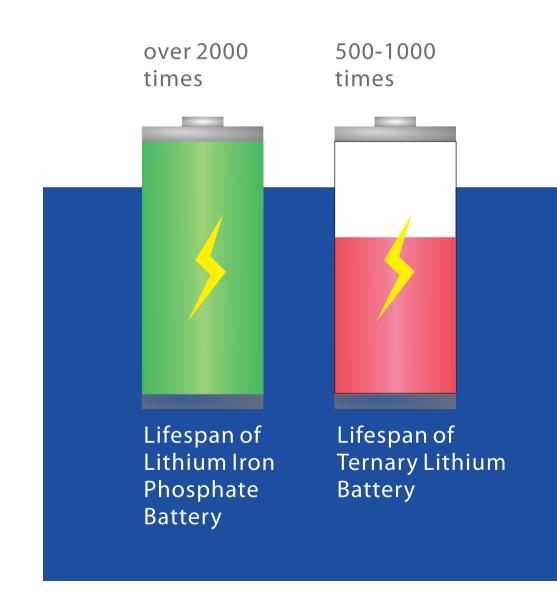


Glue required, hard to assemble and disassemble, easily deformed

LITHIUM IRON PHOSPHATE BATTERY

Utilized the high capacity and high efficiency lithium ion phosphate (LifePO4) batteries, compared to traditional lead acid batteries, offers 4 times more higher discharge depth, 3 times higher cycle life, more storage and power capacity and will not pollute the environment. Lithium Iron batteries are also able to discharge to an incredible 90% without any damage to them before the under voltage battery protection cuts out any further operation.

The other Ternary lithium battery, can not bear large current discharge, bad performance even exploding in high temperature environment, life cycles is just 500-1000 times



LIFEPO4 BATTERY BMS=ELECTRIC VEHICLES BMS



Different to other Lifepo4 battery, Jinsdon Lighting adopts the Electric Vehicles Battery Management Working Principle (Technical Security), to make sure battery lifespan is more than 10 years.

MONOCRYSTALLINE SILICON SOLAR PANEL



Big Dipper series integrated solar street lights adopt monocrystalline silicon solar panel, which widely applied to space station and satellite, ect, 20%-30% higher conversion efficiency compare with polysilicon solar panel

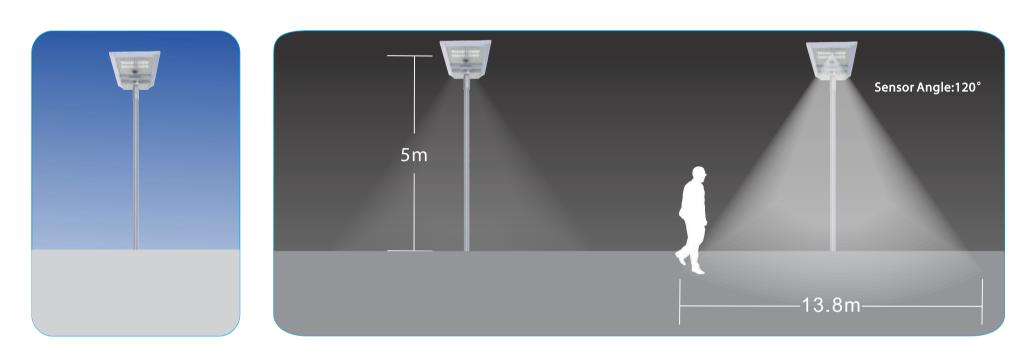
The monocrystalline silicon solar panel is produced from one-batch forming material, not leftover material, with high conversion rate and fast charging.

INTELLIGENT CHARGE CONTROLLER

Intelligent controller is with PIR sensor or Microwave sensor, to ensure effective lighting and 365 days lighting



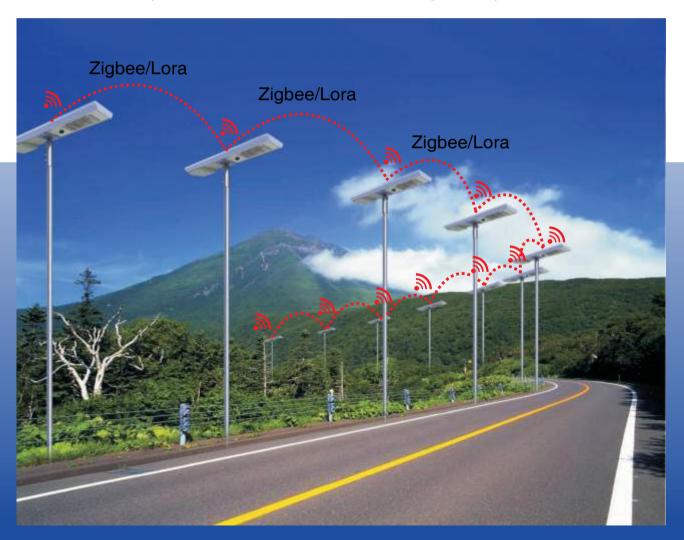
INTELLIGENT CONTROLLER SYSTEM



Night LED Light Working: Time + Smart Sensor	Sensortime	Someone passby	No one
	4hours	100%	50%
	2hours	60%	30%
	6hours	40%	20%
DAY	Automatic turn off		

Multi intelligent controllers for options

Own 8 years experience in R&D and producing solar charge controller, Except the common PIR sensor and microwave sensor controller, Big Dipper series solar street lights can be produced with Zigbee solar controller, combined with solar wireless concentrator, which can remotely monitor all solar street lights by PC or Mobile.

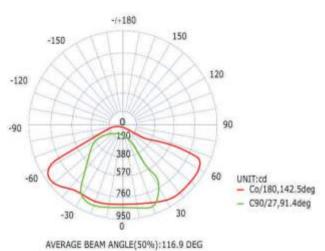




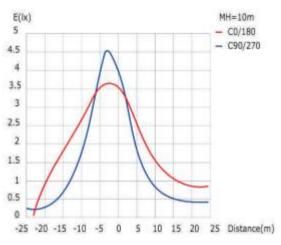
LED LIGHT DISTRIBUTION



INENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



Bridgelux LED chip: 160lm/w BD-X3-30W with 60pcs LEDs, BD-X4-40W with 60pcs, BD-X6-60W with 90pcs, enough LED quantity to ensure its brightness, but also to prevent LED from luminous attenuation, to ensure longer lifespan.

TECHNICAL PARAMETERS

Model		BD-X3	BD-X4	BD-X6		
Mono Solar Panel	Power	18V/60W	18V/80W	18V/100W		
	Efficiency	>22%				
	Life	25years				
LED light	Power	30W	40W	60W		
	Color Temp.	6000-6500K				
	LED Chip	Bridgelux				
	LED Quantity	60pcs	60pcs	90pcs		
	Life	≥50000hrs				
Lifepo4 Battery	Capacity	256Wh	320Wh	448Wh		
	Life Cycle	>2000cycles				
Intelligent Controller		Light+time+smart				
Working Time		12hrs/day				
Charging Time		6hrs				
Charging Temp.		0°C~60°C				
Discharging Temp.		-20℃~60℃				
Storage Temp.		0°C ~45°C				
Height of Pole		5-6M	6-7M	8-10M		
Distance of Pole		<20m	<25m	<25m		
Pole Diameter		50~60mm				
Dimension(ĽW*H)		890*432*73mm	1200*432*73mm	1550*432*73mm		
Packing(L*W*H)		1065*475*125mm	1360*475*125mm	1560*475*125mm		
Gross Weight		12.8KG	15.8KG	19.6KG		

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