

Inbrit[®]



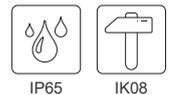
COMPACT

ALL IN TWO SOLAR STREET LIGHT



COMPACT 12W/15W/20W/27W

ALL IN TWO SOLAR STREET LIGHT



Innovative lens, bat wing type light source to make a more uniform light distribution,
Intelligent control system to customize illumination and reduce the power consumption,
Patented support arm, easy installation and maintenance,
LiFePo4 Lithium battery, longer lifespan and safer use,
Longer cycles, economical and practical.



Front view



Side view



Wall-mounted installation



MAIN BODY OF A STRUCTURE

The lamp body is made of die cast aluminum

OPTICAL ELEMENT

The light source adopts bat wing lens optical accessories

HIGH-EFFICIENCY HEAT DISSIPATION

Large heat dissipation area for efficient cooling, long-lasting and durable lighting.

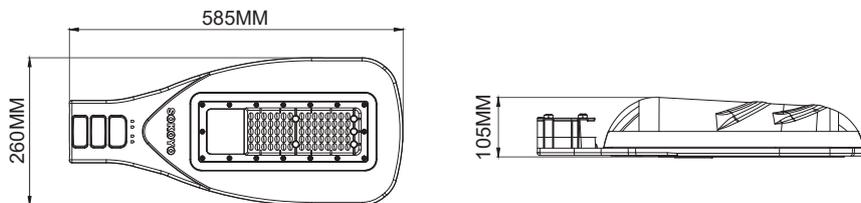
BATTERY COMPARTMENT

A larger battery compartment provides more stable lighting.



Model No.	COMPACT-001	COMPACT-002	COMPACT-003	COMPACT-004	COMPACT-005
Rated Power	12W	15W	20W	20W	27W
System Voltage	DC3.2V				
Lithium Battery	40AH	50AH	60AH	80AH	100AH
Light Source	3030				
Light Distribution	Bat-wing light distribution (150°x75°)				
Light Efficiency	≥160LM/W				
Color Temperature	3000K/4000K/5700K/6500K				
CRI	≥Ra70				
IP Rating	IP65				
IK Rating	IK08				
Working Temperature	-10°C -+60°C				
Mount Diameter	Φ48MM				
LED Lifespan	> 50000H				
Lamp Dimension	585x260x105MM				
Package Dimension	595x270x220MM(2pcs/CTN)				
Mounting Method	Hoop Clamp-Mount Type and Wall-Mount Type				
Working Mode	6-12H				
Lamp Weight	4.2KG	4.25KG	4.38KG	5.25KG	5.34KG
Suggested Mount Height	4-6M				
Warranty	3 Years				

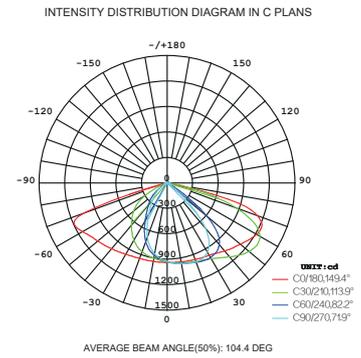
LAMP DIMENSION



LIGHT DISTRIBUTION CURVE

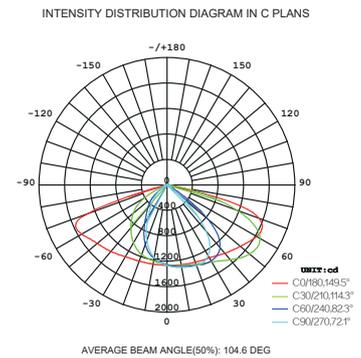
STREETLIGHT PHOTOMETRIC TEST REPORT (20W)

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 145.94lm/W
MODEL	XY-20W	I _{max} (cd)	1478	η street_up (%)	0.5	
NOMINAL POWER (W)	20	LOR (%)	100.0	η street_down (%)	53.6	
RATED VOLTAGE (V)	3.2	TOTAL FLUX (lm)	2919	η house_up (%)	0.5	
NOMINAL FLUX (lm)	2918.89	MAXIMUM @(C,γ)	15°, 67.0°	η house_down (%)	45.3	
LAMPS INSIDE	1	η up (%)	1.1	76 FLASHAREA (m ²)		
TEST VOLTAGE (V)	3.31	η down (%)	98.9	SLI		

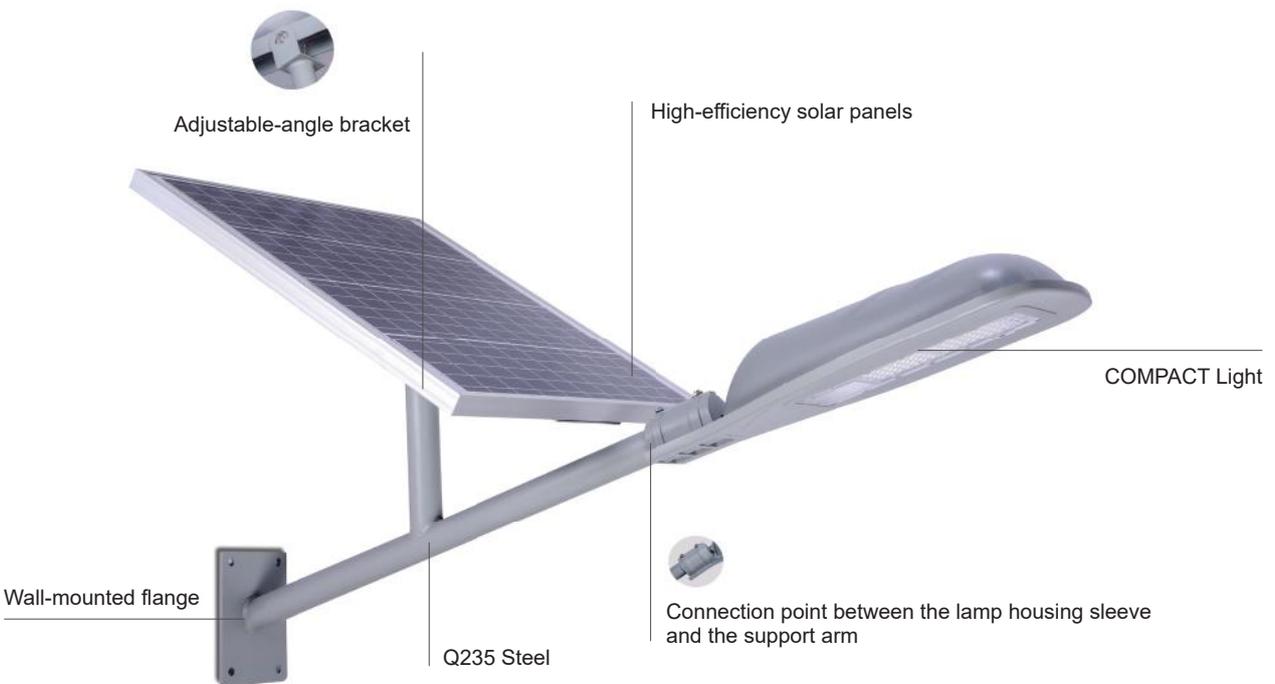
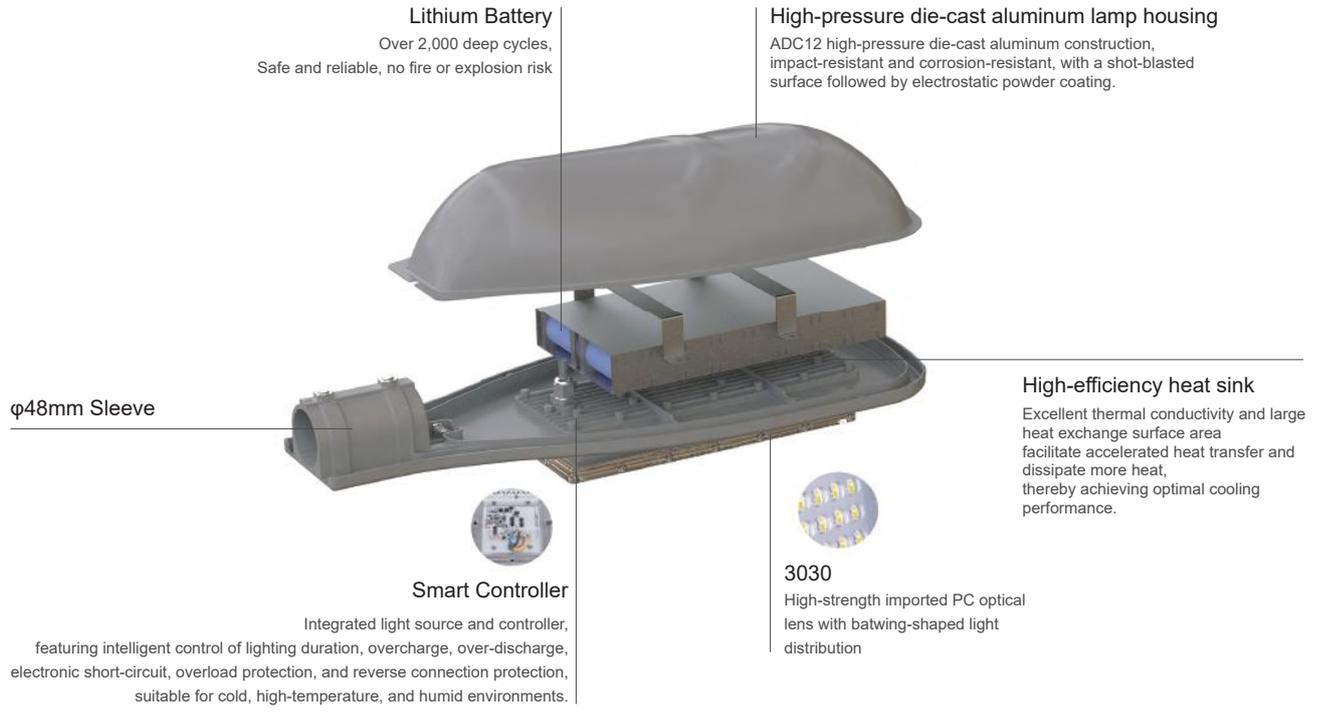


STREETLIGHT PHOTOMETRIC TEST REPORT (30W)

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 131.38lm/W
MODEL	XY-30W	I _{max} (cd)	1958	η street_up (%)	0.5	
NOMINAL POWER (W)	30	LOR (%)	100.0	η street_down (%)	53.6	
RATED VOLTAGE (V)	3.2	TOTAL FLUX (lm)	3941	η house_up (%)	0.5	
NOMINAL FLUX (lm)	3940.92	MAXIMUM @(C,γ)	15°, 67.0°	η house_down (%)	45.3	
LAMPS INSIDE	1	η up (%)	1.1	76 FLASHAREA (m ²)		
TEST VOLTAGE (V)	3.51	η down (%)	98.9	SLI		



STRUCTURE PRESENTATION



MONOCRYSTALLINE SOLAR MODULE



High-Quality Guarantee
EL TEST twice 100% for semi-finished and finished products to eliminate defectives.



Efficiency Under Dim
Using advanced glass and textures. Superior low irradiance performance.



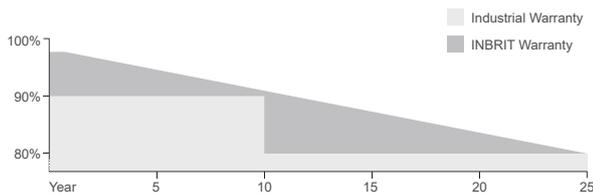
Afford Any Bad Weather
Certificated 2400-Pascal wind and snow load.



Higher Efficiency
High efficiency of conversion by using the new manufacturing technique and A-class cell.

INBRIT photovoltaic(PV) modules are assembled by high-performance A-class cells and encapsulated by a durable back sheet, are capable of converting energy from incident lights on the diffuse light, as well as reflected and scattered light on rear sides, which make them better reliable, superior low irradiance performance, and excellent generation performance.

Linear graph of performance warranty



Comprehensive certificates

- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems



PRODUCT DETAIL



Aluminum Alloy Frame

Anodized aluminum frame for high corrosion resistance
Up to 25 years of service life
Improved load resistance capabilities for heavy wind loads



Protect Corner

Protect the solar panel frame during transportation
Do not deform under the action of external force
Protect the safety of the installer during the installation process



High Transmission Low Iron Tempered Glass

3.2mm thickness
>91% higher light transmittance
Work normally under 5400Pa snow load
High mechanical strength



EVA

>91% higher light transmittance
Higher gel content to provide good encapsulation
And protect cells from vibration with longer durability

INTEGRATED LITHIUM BATTERY AND CONTROLLER

Battery cell dimensions(mm)



Recycle responsibly

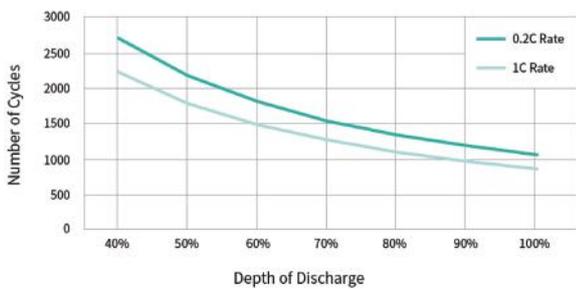
Do not mix with Lead Acid Batteries when Recycling.

Features

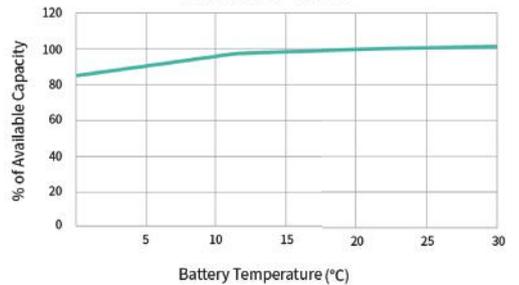
Humidity	60±10R.H.
Operating temperature	0-60°C
Storage and charging	Battery may be stored up to 3 months then a freshening charge is required
Self-discharge	At 25°C, the monthly power consumption is less than or equal to 0.9%, which is between 0.5% and 0.9%

Noted: Better not to use the battery under extremely cold weather, otherwise the lifespan will be affected.

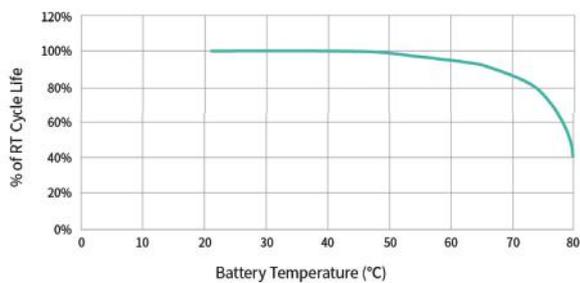
CYCLE LIFE



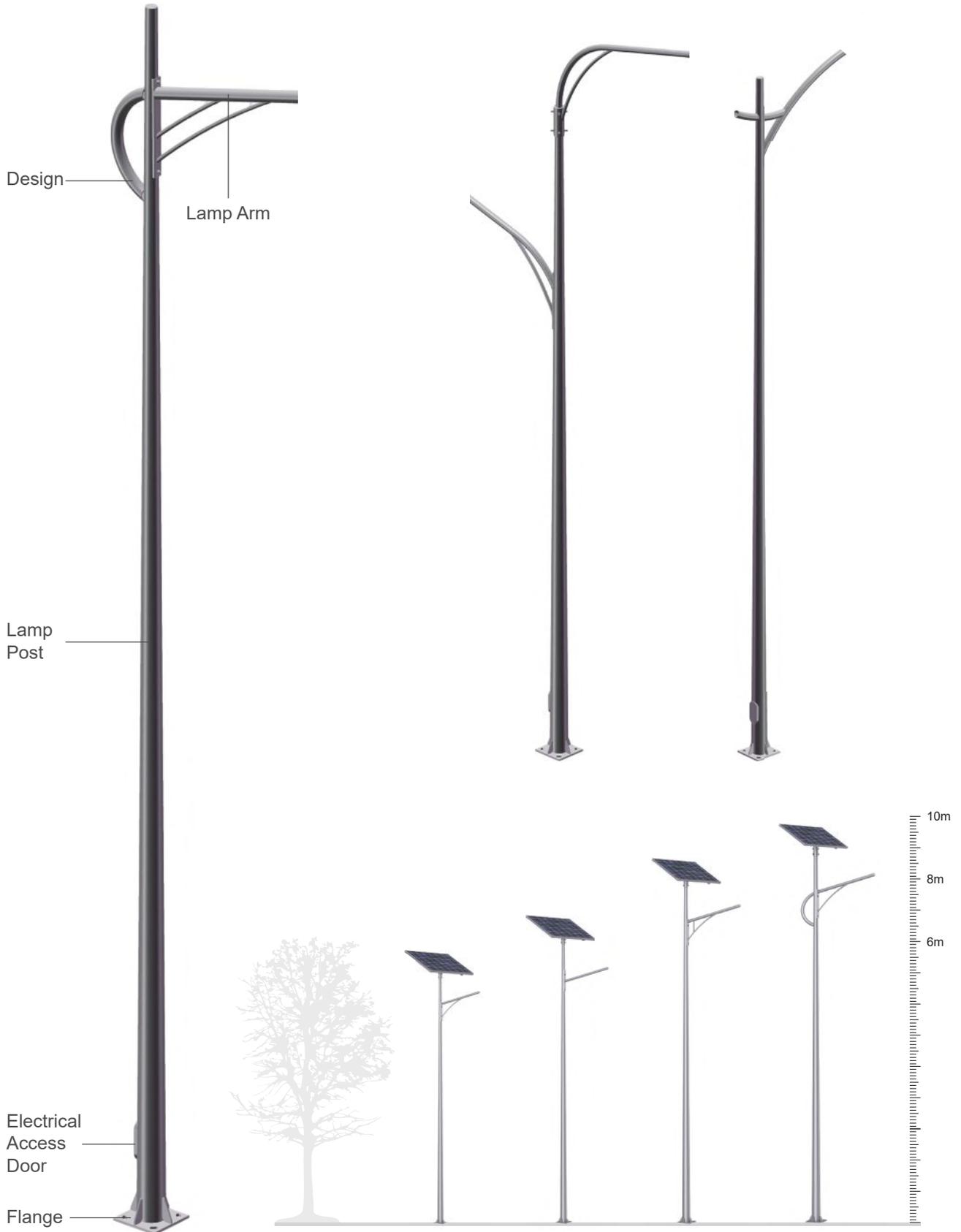
**AVAILABLE CAPACITY
PERCENT OF RATED**



CYCLE LIFE VS. TEMPERATURE

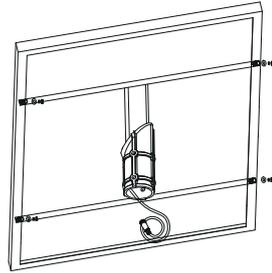


LIGHT POLE



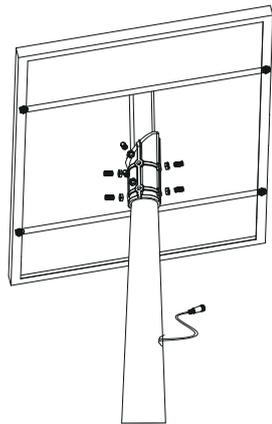
LAMP INSTALLATION

①



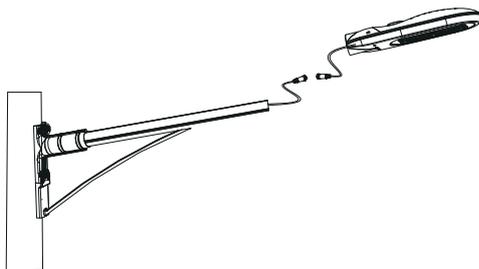
Secure the solar panel to the bracket with screws, threading the panel cable through the head.

②



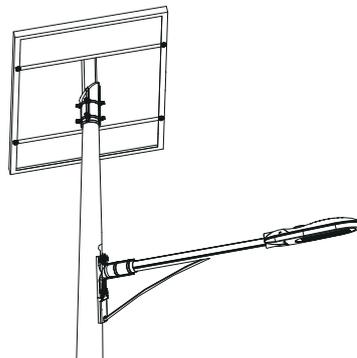
Pass the panel's cable through the wiring hole in the lamp post, insert the head into the post, adjust the panel's angle for optimal sunlight exposure, and tighten the screws symmetrically.

③



Thread the panel cable through the lamp support arm and connect it to the lamp's waterproof connector. After activating the light source board, cover the photovoltaic panel to block light, causing the lamp to illuminate.

④



Once the lamp lights up, remove the cover from the panel and allow it to enter charging mode. In charging mode, the lamp will turn off, indicating the system is ready for installation. After testing, secure the lamp and arm screws, adjust the angle, raise the pole, and complete the installation.



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One-Stop LED Outdoor Lighting Manufacturer