

LET THE LIGHT SHINE EVERYWHERE

Contact Us



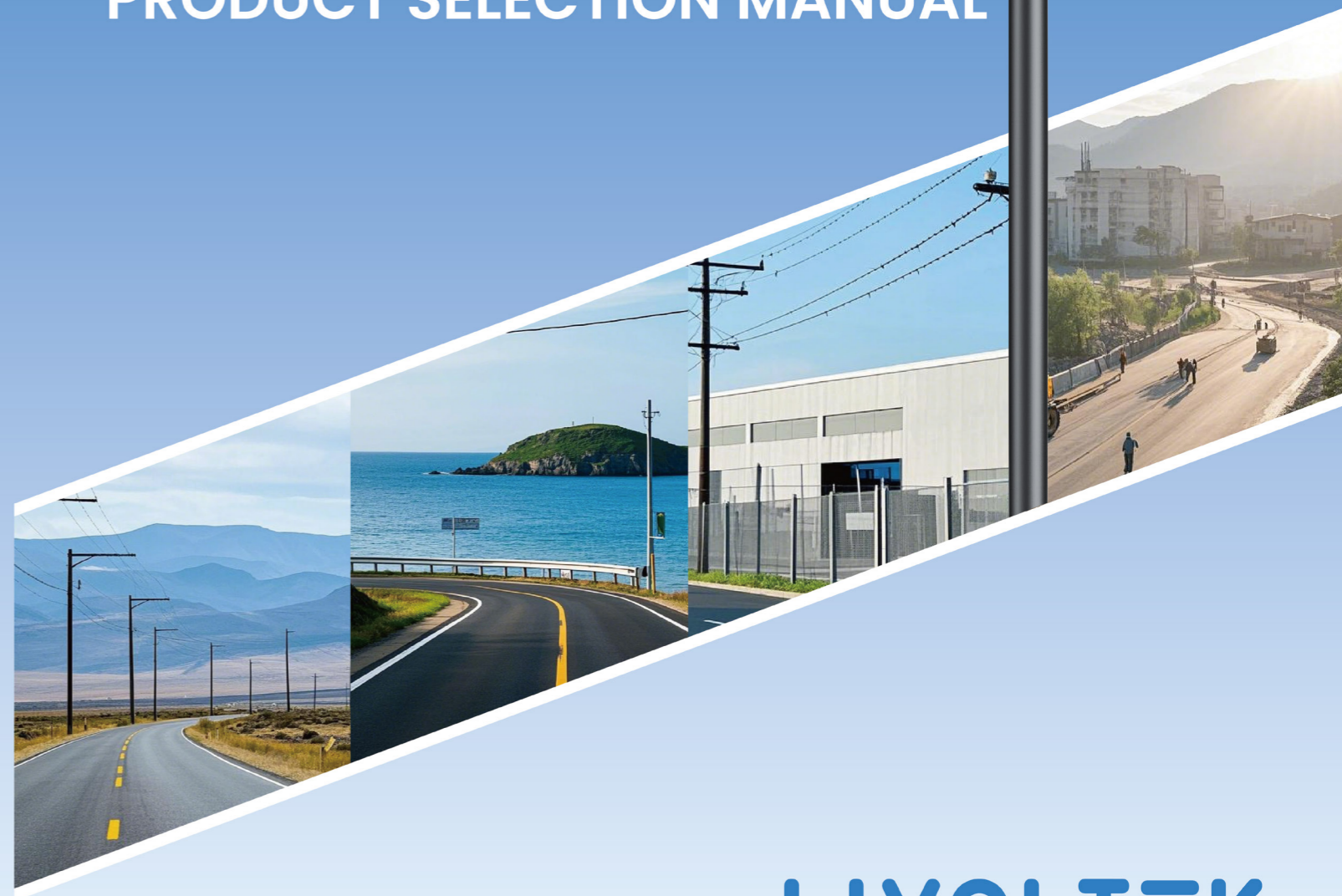
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SOLAR STREET LIGHT

PRODUCT SELECTION MANUAL



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LIVOLTEK

INTRODUCTION OF SOLAR STREET LIGHTS

HX-SL series all in one solar street light is a kind of solar lighting equipment, during the day through the solar panel collection and conversion of electricity, stored in the lithium battery, at night for the LED light source power to achieve lighting. The series of products provide sustainable, zero-operating cost green energy solutions for urban public lighting, improvement of living environment and regional public safety.



CORE ADVANTAGE

High Brightness 180LM/W

Equipped with efficient LED chip, the light efficiency of the lamp is up to 180LM/W, providing excellent lighting performance and first-class visual experience.

Long Life 2000+ TIMES

High quality lithium iron-phosphate battery, integrated intelligent charge and discharge protection technology, battery cycle life of more than 2000 times.

Zero Maintenance Service Life More Than 10 Years

Created by a professional design team, the lamp has an IP65 protection level and excellent environmental tolerance, which can extend the service life of solar street lights from 5-7 years to more than 10 years.

More Secure

The shell adopts aluminum die-casting process with ultra-high strength, and the lamp has a wind resistance level of 16, ensuring higher safety performance.

Smarter

Intelligent light control strategy and adaptive energy management technology are used to achieve 12 hours of daily conventional lighting and 5 days of rain endurance, fully highlighting the high efficiency and power supply reliability of this series of photovoltaic street lights off-grid operation.



WHY CHOOSE HX-SL SERIES PRODUCTS

Low cost installation

- Plug and play
- One-step operation can be completed by one person
- Significantly reduce installation costs

Zero-cost operation and maintenance

- Supports multi-protocol communication networking
- Remote control between PC and mobile APP via 4G network
- Achieve low-cost remote monitoring and management

High efficiency maintenance

- All in one design
- No wiring required, no need for professional electricians
- Convenient and efficient maintenance

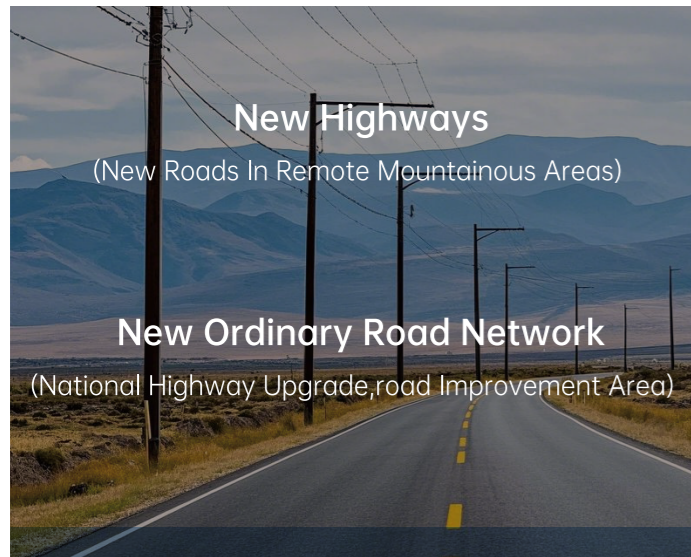


HX-SL-**(N)

HX-SL-**(T/S)

APPLICATION SCENARIOS

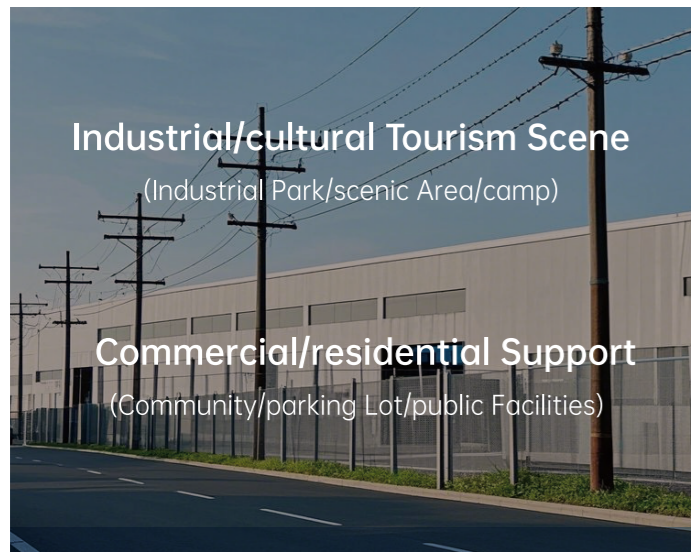
Remote Areas



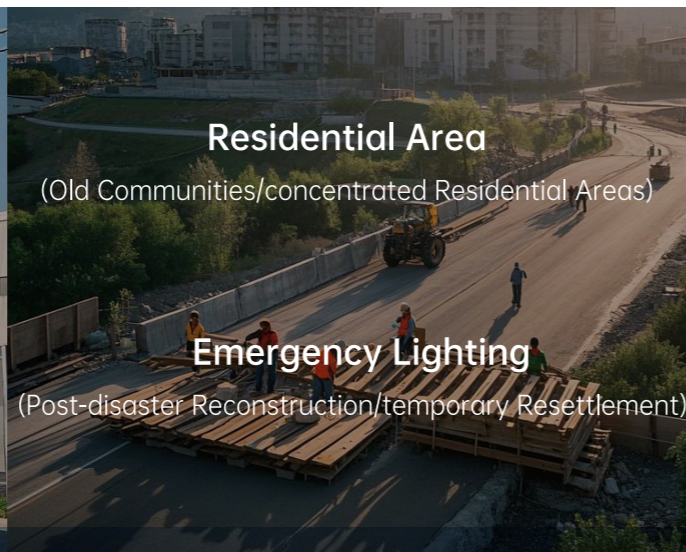
Infrastructure Weak Areas



Functional Scenarios



Safety And Livelihood Improvement Scenarios



PRODUCT CERTIFICATION

REACH

ROHS

CE

Salt Spray Test Report

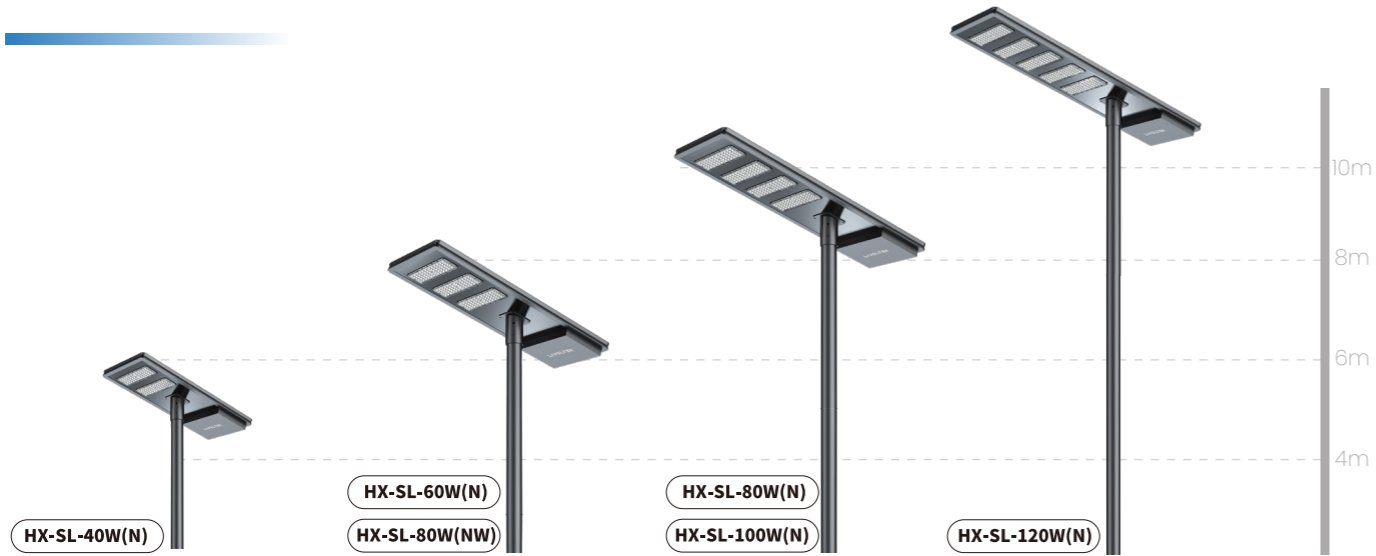
IK10 Mechanical Collision Test Report

Ip65 Test Report

Vibration Test Report

UN38.3 Test Report

HX SOLAR STREET LIGHT HX-SL-**(N)



Technical Specification Sheet

3.2V SYSTEM MODEL	HX-SL-40W(N)	HX-SL-60W(N)	HX-SL-80W(NW)	HX-SL-80W(N)	HX-SL-100W(N)	HX-SL-120W(N)
Solar Panel	60W	80W	80W	100W	100W	120W
Battery	80AH	100AH	160AH	160AH	200AH	250AH
LED(Bridgelux)	120PCS	180PCS	180PCS	240PCS	240PCS	300PCS
luminous flux(All light pattern)	6400LM	9600LM	12800LM	14400LM	16000LM	19200LM
Color Temperature	2700K-6500K,RA>70					
Brightness	160LM/W					
Working Time	12h up to 2 cloudy/rainy days					
Charging Time	3-5 hours					
Mounting Caliber	70-76mm(suggestion)					
Working Temperature	-25°C~+65°C					
IP Rating/IK Class	IP65/IK10					
Mounting Height	4-6M	6-8M	8-9M	8-9M	9-10M	9-10M
Space between 2 Lamps	20-25m	20-25m	25-30m	25-30m	30-35m	30-35m
Warranty	2 YEARS					

PACKING LIST-WITH PALLET HX-SL-**(N)



Solar street light - 20-foot cabinet packing list

MODEL	HX-SL-40W(N)	HX-SL-60W(N)	HX-SL-80W(NW)	HX-SL-80W(N)	HX-SL-100W(N)	HX-SL-120W(N)
Quantity percarton	1	1	1	1	1	1
Carton number	410	340	340	280	280	240
Gross weight (kg)	10.4	12.7	12.7	15	15	17.2
Total grossweight (kg)	4482	4565	4565	4320	4320	4336
Net weight (kg)	9.4	11.6	11.6	13.6	13.6	15.7
Total net weight(kg)	4242	4315	4315	4080	4080	4126
Product size(mm)	928*416*80	1122*416*80	1122*416*80	1352*416*80	1352*416*80	1582*416*80
Outer box size(mm)	980*470*165	1175*470*165	1175*470*165	1405*470*165	1405*470*165	1635*470*165
Bulk volume()	26.8	26.7	26.7	25.5	25.5	26.2



Solar street light - 40-foot cabinet packing list

MODEL	HX-SL-40W(N)	HX-SL-60W(N)	HX-SL-80W(NW)	HX-SL-80W(N)	HX-SL-100W(N)	HX-SL-120W(N)
Quantity percarton	1	1	1	1	1	1
Carton number	870	720	720	580	580	510
Gross weight (kg)	10.4	12.7	12.7	15	15	17.2
Total grossweight (kg)	9456	9630	9630	9120	9120	9093
Net weight (kg)	9.4	11.6	11.6	13.6	13.6	15.7
Total net weightkg	8976	9150	9150	8640	8640	8673
Product size(mm)	928*416*80	1122*416*80	1122*416*80	1352*416*80	1352*416*80	1582*416*80
Outer box size(mm)	980*470*165	1175*470*165	1175*470*165	1405*470*165	1405*470*165	1635*470*165
Bulk volume()	57.6	57.5	57.5	54.9	54.9	55.9

HX SOLAR STREET LIGHT HX-SL-**(T)



HX SOLAR STREET LIGHT HX-SL-**(S)



Technical Specification Sheet

3.2V SYSTEM MODEL	HX-SL-40W(T)	HX-SL-60W(T)	HX-SL-80W(T)	HX-SL-100W(T)
Solar Panel	60W	80W	100W	120W
Battery	80AH	100AH	160AH	200AH
LED(Bridgelux)	120PCS	180PCS	240PCS	300PCS
luminous flux(All light pattern)	6400LM	9600LM	12800LM	19200LM
Color Temperature	2700K-6500K,RA>70			
Brightness	160LM/W			
Working Time	12h up to 3 cloudy/rainy days			
Charging Time	3-5 hours			
Mounting Caliber	70-76mm(suggestion)			
Working Temperature	-25°C~+65°C			
IP Rating/Ik Class	IP65/IK10			
Mounting Height	4-6M	6-8M	8-9M	9-10M
Space between 2 Lamps	20-25m	20-25m	25-30m	30-35m
Warranty	2 YEARS			

12.8V SYSTEM MODEL	HX-SL-40W(S)	HX-SL-60W(S)	HX-SL-80W(S)	HX-SL-100W(S)
Solar Panel	60W	80W	100W	120W
Battery	25AH	30AH	35AH	40AH
LED(Bridgelux)	120PCS	180PCS	240PCS	300PCS
luminous flux(All light pattern)	6400LM	9600LM	12800LM	19200LM
Color Temperature	2700K-6500K,RA>70			
Brightness	160LM/W			
Working Time	12h up to 3 cloudy/rainy days			
Charging Time	3-5 hours			
Mounting Caliber	70-76mm(suggestion)			
Working Temperature	-25°C~+65°C			
IP Rating/Ik Class	IP65/IK10			
Mounting Height	4-6M	6-8M	8-9M	9-10M
Space between 2 Lamps	20-25m	20-25m	25-30m	30-35m
Warranty	2 YEARS			

PACKING LIST-WITH PALLET HX-SL-**(T/S)

Packing List-With pallet Solar street light - 20-foot cabinet packing list

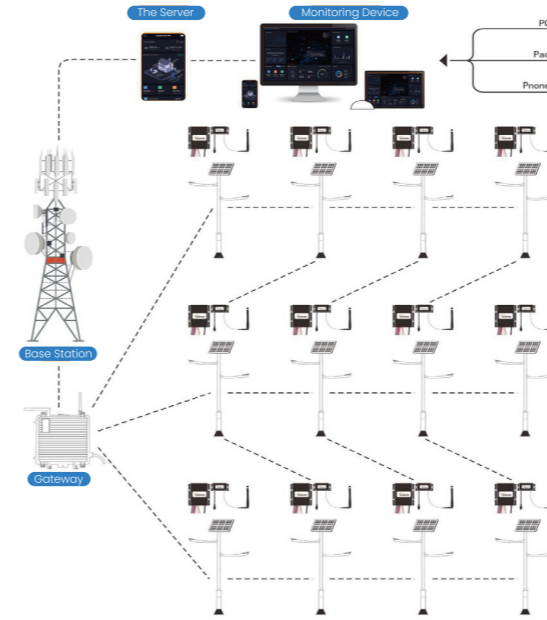
MODEL	HX-SL-40W(T/S)	HX-SL-60W(T/S)	HX-SL-80W(T/S)	HX-SL-100W(T/S)
Quantity percarton	1	1	1	1
Carton number	320	260	210	180
Gross weight (kg)	10.9/12	13.1/14.3	16.1/16.7	18.5/18.5
Total grossweight (kg)	3702/4044	36660/3965	3588/3708	3540/3540
Net weight (kg)	9.9/11	12/13.2	14.7/15.3	17/17
Total net weight(kg)	3402/3744	3410/3715	3352/3468	3330/3330
Product size(mm)	928*416*80	1122*416*80	1352*416*80	1582*416*80
Outer box size(mm)	980*470*165	1175*470*165	1405*470*165	1635*470*165
Bulk volume(m ³)	26.1	26	24.9	25

Solar street light - 40-foot cabinet packing list

MODEL	HX-SL-40W(T/S)	HX-SL-60W(T/S)	HX-SL-80W(T/S)	HX-SL-100W(T/S)
Quantity percarton	1	1	1	1
Carton number	624	520	420	370
Gross weight (kg)	10.9/12	13.1/14.3	16.1/16.7	18.5/18.5
Total grossweight (kg)	7404/8080	7320/7930	7176/7416	7154/7154
Net weight (kg)	9.9/11	12/13.2	14.7/15.3	17/17
Total net weightkg	6804/7488	6820/7430	6704/6936	6734/6734
Product size(mm)	928*416*80	1122*416*80	1352*416*80	1582*416*80
Outer box size(mm)	980*470*165	1175*470*165	1405*470*165	1635*470*165
Bulk volume(m ³)	52.2	52.1	49.8	50.6

SMART STREET LIGHTING LIST

4G Wireless Communication



Product Applications:

High-density luminaire deployment, Urban arterial roads (minimal obstacles) Industrial park roads, Warehouse district roads, Factory perimeter roads, Scenic area roads, Pedestrian walkways, Landscape lighting zones, Rural arterial roads.

Lighting Spacing:
10~300 meters

Solar IoT Wireless Mesh Communication System Features

Communication Methods:

4G-based network, Automatic networking (plug-and-play), Self-recovery capability, Zero manual configuration.

Networking Capacity:

Wireless multi-hop relay communication, Coverage radius ≤10km, Single gateway supports ≤500 nodes (spacing ≤300m)

Smart Management:

Remote parameter configuration (single/group control), Real-time monitoring Controller, Battery and Solar panel status (5-minute data reporting)

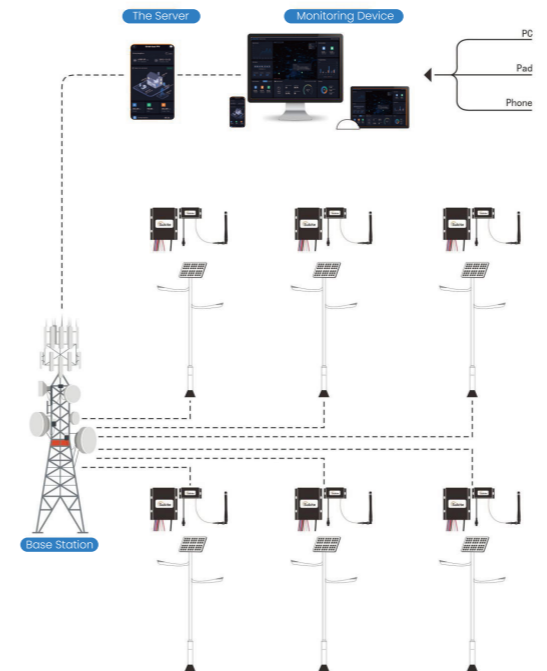
Fault Alarm:

Real-time Monitoring and Alarming for Abnormalities in Batteries, Solar Panels, and Loads

Visualization Platform:

PC web portal, Mobile APP and WeChat official account, GIS map integration, Real-time luminaire status & operational data display

4G CAT-1



Product Applications:

4G-covered urban roads, Industrial parks, Tourist attractions, Ports & terminals Rural areas, Tunnels.

Lighting Spacing:
No spacing restrictions.

Solar IoT Module Features

Communication Methods:

Dual-mode network (4G Cat.1 + 2G GPRS), Automatic fallback to 2G when 4G unavailable, Guaranteed stable connection

Compatibility:

Supports all controller series, System voltage range: 3.2V/6.4~25.6V

Smart O&M:

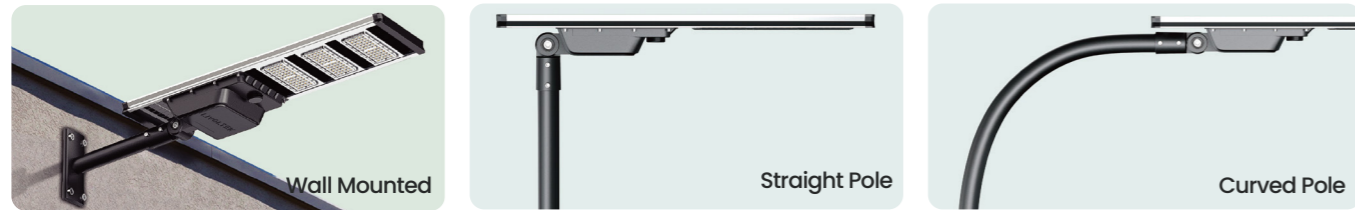
Real-time monitoring Controller, Battery and Solar panel status (5-min interval) Fault alarms: Battery / Load abnormalities Remote configuration (single/group control)

Visualization Platform:

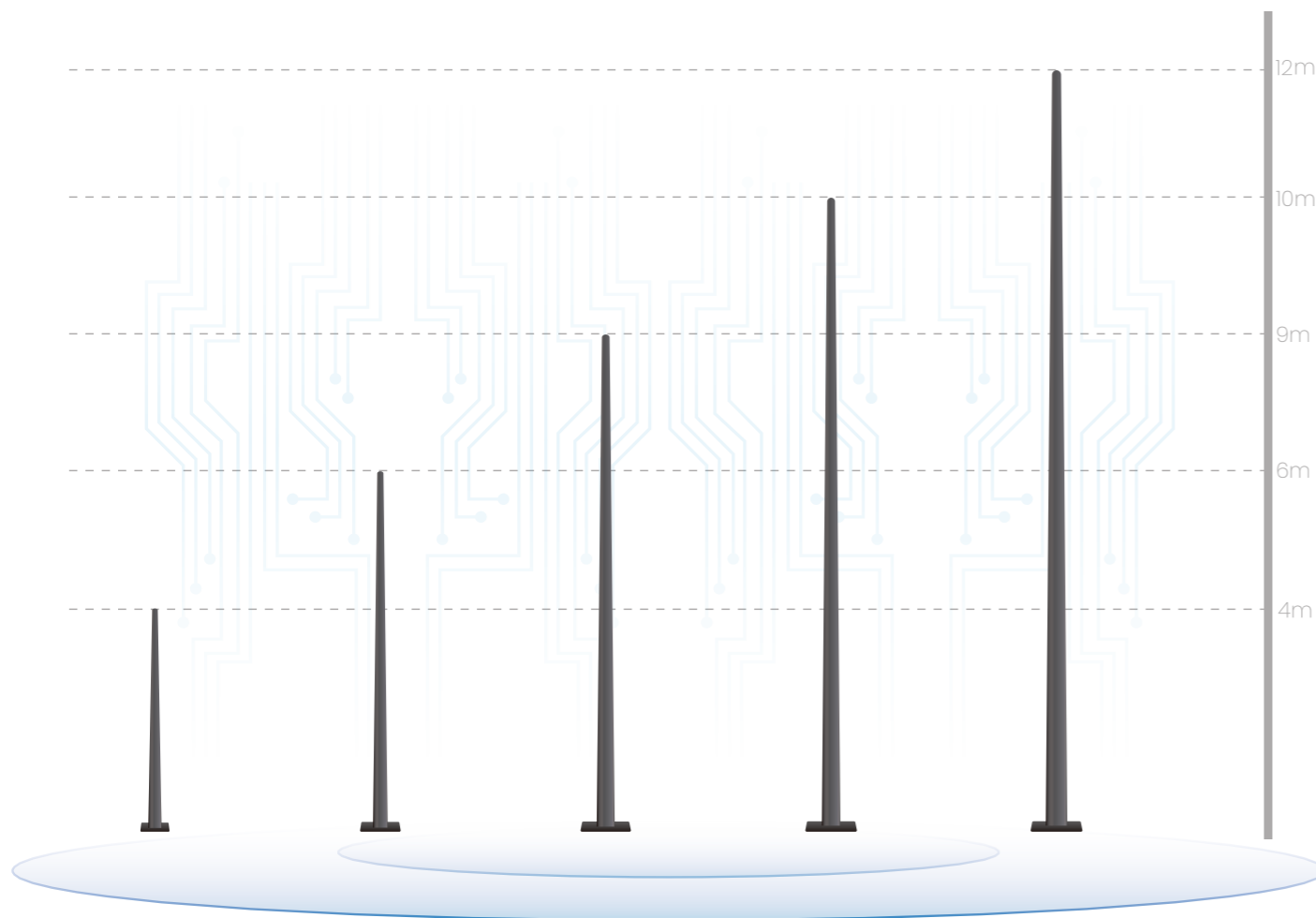
PC web portal/ Mobile APP GIS mapping (Baidu/Google Maps compatible), Auto-location feature CN/EN language UI, Optional overseas cloud deployment

Three Installation Methods:

The lighting fixtures can be installed on walls or poles and are compatible with both straight and curved pole mounting options. In addition, the lighting can support 0-90°angle adjustment. They can be adjusted to suit different lighting environments and meet various lighting needs.



4-12M Hot-dip galvanized and powder coated light Pole



STREET LIGHT POLE

Product Specifications

MODEL	LT-DG-4M	LT-DG-6M	LT-DG-8M	LT-DG-10M	LT-DG-12M	
Material	Q235B					
Type	Shape	Conical				
	Top	70mm				
Diameter	Bottom	120mm	140mm	160mm	180mm	195mm
	Flange	250mm*250mm	260mm*260mm	320mm*320mm	350mm*350mm	380mm*380mm
Diameter	Anchor Bolts	M16*600MM	M18*600MM	M20*700MM	M22*750MM	M24*800MM
	Thickness	2.75mm	3mm	3mm	3.5mm	3.75mm
	Height	4M	6M	8M	10M	12M
	Flange Thickness	12mm	14mm	16mm	16mm	18mm
	Hot-dip Galvanized	65um	65um	75um	80um	85um
LOADING DETAILS		288SETS/40HQ	200SETS/40HQ	160SETS/40HQ	128SETS/40HQ	98SETS/40HQ