

STREET LIGHT

LX-SL-AK-D



L90B10 > 52000h, @Ta 25°C

All in one solar light LX-SL-AK-D

Outdoor solar lighting systems use solar cells which convert sunlight into electricity. Electricity is stored in batteries for use at night.

SD series LED solar lights are easy to install and virtually maintenance free.

Using them won't increase your electric bill.

- SD Solar LED Street Light features all in one design function, low profile design, with photocell sensor, Timing, dimming, intelligent power saving, microwave sensor or PIR sensor optional.
- Power range: from 20W to 120W;
- Single side monocrystalline solar panel. Suitable for remote region, no-electric supply zone;
- Deep cycle battery, charge and discharge over 2000 times;
- Continuously work 2-3 rainy days in intelligent mode;
- MPPT intelligent controller;
- Die-casting aluminium housing, anti-corrosion coating;
- Easy battery replacement design;
- Ultra-high light efficiency, 10 watts equivalent to 20 watts of others at least;
- Accurate optical road lighting designs, adapt to various conditions with no waste of light. ULOR=0%, no up-light pollution;
- Optical systems maintain an IP65 rating.

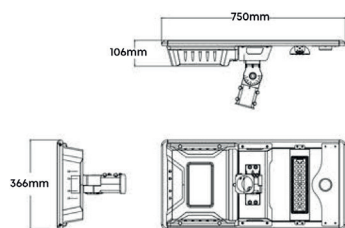


Parameter

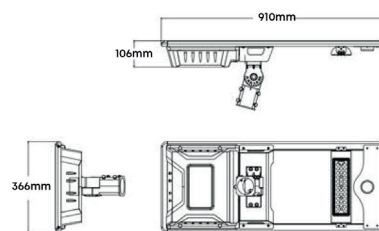
Model LX-SL-AK-D									
Power		20W	30W	40W	50W	60W	80W	100W	120W
Control Option		Photocell sensor, Timing, dimming, intelligent power saving, microwave sensor or PIR sensor.							
Work Mode		2H-100%; 4H-Detected: 60%, None: 20%; 6H-Detected: 40%, None: 10%							
Photometric Data									
LED model		5050=adjustable, Distribution: T2/T3/T5 optional							
Lens		Polycarbonate							
Efficacy (lm/W, Std. Dev. ±3%)@CCT=5700K, CRI>70Ra	5050	210lm/W	210lm/W	200lm/W	210lm/W	210lm/W	200lm/W	210lm/W	200lm/W
Luminous flux (lm, Std. Dev. ±10%)@CCT=5700K, CRI>70Ra	5050	4200lm	6300lm	8000lm	10500lm	12600lm	16000lm	21000lm	24000lm
ULOR		=0%, @ Luminaire inclination 0°							
CCT		3000K, 4000K, 5000K, 5700K, 6500K							
CRI		70Ra/80Ra optional							
Beam angle		5050=adjustable, Distribution(20W-120W):T203(60°*155°)/T304(75°*160°)/T502(150°*150°)							
Mechanical Data									
SCx (EPA) Fixed module	Top View: 0.340m²(3.65ft²) Side View: 0.67m²(0.72ft²) Front View: 0.052m²(0.56ft²)	Top View: 0.400m²(4.3ft²) Side View: 0.72m²(0.78ft²) Front View: 0.052m²(0.56ft²)	Top View: 0.470m²(5.06ft²) Side View: 0.077m²(0.83ft²) Front View: 0.052m²(0.56ft²)	Top View: 0.530m²(5.70ft²) Side View: 0.082m²(0.88ft²) Front View: 0.052m²(0.56ft²)	Top View: 0.590m²(6.35ft²) Side View: 0.085m²(0.91ft²) Front View: 0.052m²(0.56ft²)	Top View: 0.690m²(7.43ft²) Side View: 0.082m²(0.88ft²) Front View: 0.062m²(0.67ft²)	Top View: 0.750m²(8.07ft²) Side View: 0.084m²(0.90ft²) Front View: 0.062m²(0.67ft²)	Top View: 0.910m²(9.80ft²) Side View: 0.09m²(0.98ft²) Front View: 0.062m²(0.67ft²)	Top View: 0.910m²(9.80ft²) Side View: 0.09m²(0.98ft²) Front View: 0.062m²(0.67ft²)
IP Rating	IP65, according to standard EN 60529								
Housing	Heavy-duty die-cast aluminum (EN AC-46100)+PA66								
Surface treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).								
Painting	Black, Custom request								
Mounting	Post Top								
Solar Panel Data									
Photovoltaic panel	Single side monocrystalline solar panel								
Solar panel voltage(W)	16V 40W	18V 50W	18V 60W	18V 70W	18V 80W	36V 100W	36V 120W	36V 150W	
Battery voltage(AH)	12.8V 12AH	12.8V 18AH	12.8V 24AH	12.8V 30AH	12.8V 36AH	25.6V 24AH	25.6V 30AH	25.6V 36AH	
Li-ion Battery(WH)	153.6WH	230.4WH	307.2WH	384WH	460.8WH	614.4WH	768WH	921.6WH	
Charing Time	4.2Hrs	4.8Hrs	5.0Hrs	5.7Hrs	6.1Hrs	6.5Hrs	6.8Hrs	6.5Hrs	
Run Time(@full power)	7.1hrs	7.1hrs	7.1hrs	7.2hrs	7.2hrs	7.2Hrs	7.2Hrs	7.2Hrs	
Ambient Temperature	-10°C to 50°C (14°F to 122°F)								
Storage Temperature	-20°C to 45°C (-4°F to 113°F)								
Control system	MPPT/PWM optional								
Maximum Autonomy	Operate 2~3 rainy days under intelligent model.								
Others									
Lifespan	L90B10 > 52000h, @Ta 25°C								
Warranty	3years (Warranty extension up to 5 years on request)								
Certification	CE/FCC/RoHs,For other certificates please request								
Product Size	750*366*106mm	910*366*106mm	1080*366*106mm	1210*366*106mm	1345*366*106mm	1060*550*110mm	1145*550*110mm	1390*550*110mm	
Net Weight	10kg	12kg	14kg	16kg	18kg	20kg	22kg	24kg	
Carton Size	1025*440*195mm	1225*440*195mm	1195*440*195mm	1325*440*195mm	1460*440*195mm	1180*630*195mm	1260*630*195mm	1510*630*195mm	
Gross Weight	12kg	14kg	16kg	18kg	20kg	22kg	24kg	26kg	
Recommend installation height	3-5m	4-7m	5m	5-7m	6-8m	7-9m	8-10m	8-12m	
Application field	Urban and rural street								

Dimensions(mm)

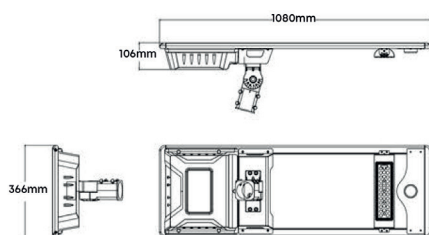
LX-SL-AK-D-20W (LED model: 5050 ; Distribution: T2/T3/T5)



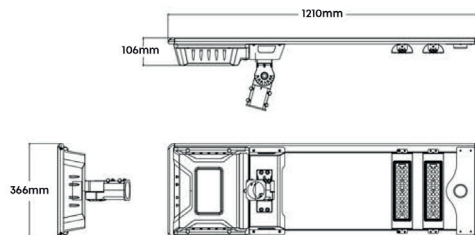
LX-SL-AK-D-30W (LED model: 5050 ; Distribution: T2/T3/T5)



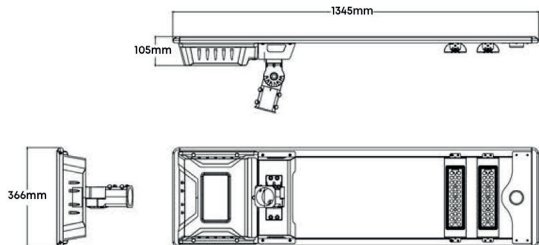
LX-SL-AK-D-40W (LED model: 5050 ; Distribution: T2/T3/T5)



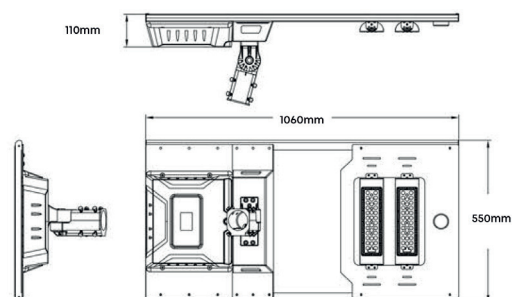
LX-SL-AK-D-50W (LED model: 5050 ; Distribution: T2/T3/T5)



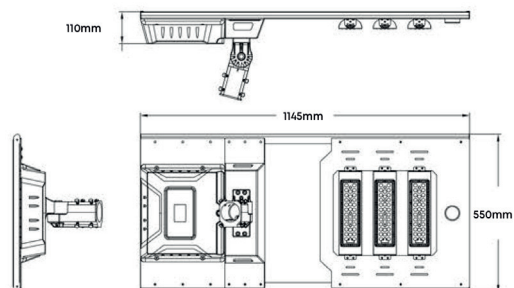
LX-SL-AK-D-60W (LED model: 5050 ; Distribution: T2/T3/T5)



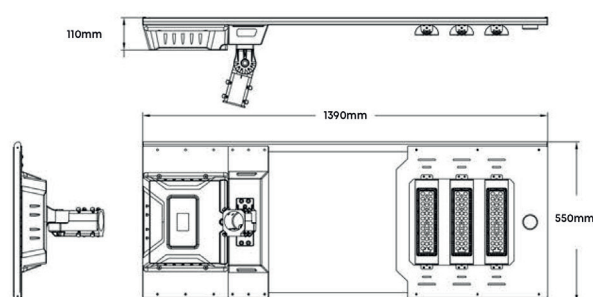
LX-SL-AK-D-80W (LED model: 5050 ; Distribution: T2/T3/T5)



LX-SL-AK-D-100W (LED model: 5050 ; Distribution: T2/T3/T5)



LX-SL-AK-D-120W (LED model: 5050 ; Distribution: T2/T3/T5)



Adjustable module



Customizable Housing Color

