Solar Streetlite™

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We light your world™

10.15.2026

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Dynamo Pro™ Series

30w/40w/50w/60w/80w
100w/120w/150w/200w

Renewable energy is what occurs as the sun rises each day. One of the main functions of outdoor lighting is to protect assets, people, and property. Better visibility is provided by solar LED lighting, along with protection against brownouts and blackouts. The lights may be adjusted to practically any application and are always present when you need them.

The Dynamo Pro™ Series "All in One" solar streetlight, the most effective LED solar lighting system in the world with a breathtaking 200 lxw, was specifically created to illuminate a wide range of applications. Modern solar power and LED technologies are incorporated into its intelligent design and slim construction to deliver consistent performance and operational dependability for many years. With an outstanding e IK09 rate, Dynamo Pro™ Series tough construction is ready to the task. With Electrostatic powder spray paint and stainless steel fasteners and certification to pass the 1000-hour Saline Chamber Test (Salt Spray), its internal components provide IP66 weather protection.

Dynamo Pro™ Series components are the most advanced available in the market. High efficiency Lumileds 5050 led chips combined with a solar panel made of integrated monocrystalline silicon with a 25-year lifespan and a > 21% conversion rate. A non-heavy lithium iron phosphate battery with Dual Protection Technology (charge and discharge/high temperature performance/large current discharge) and a lifespan of more than 2500 cycles is the LiFePO4 battery system. Using the latest technology in MPPT Solar Charger, an intelligent system to control the dimming by MS and timer. With a built-in Microwave Motion Sensor (MW) in the Dynamo Pro™ Solar fixture automatically adjusts the LED light output from maximum brightness to a lower level in response to the detection of movement nearby. Tool free maintenance, the battery box can be opened and easy to replace. Special pug connector wiring, tool free and waterproof with anti-wrong connection function. Horizontal or vertical pole installation, mounted angle is adjustable.

The Dynamo Pro™ Series is built to survive the toughest and most extreme weather conditions, including scorching heat, driving rain, hail, and below-freezing cold.

Type II

CE | EMC | RoHS

IP66 | IK09 | 3G VIBRATION

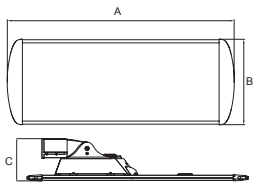
Lumens 200 L/W | CCT 5700K | CRI 70

LifePO4 Battery | -20°C~60°C | 70,000

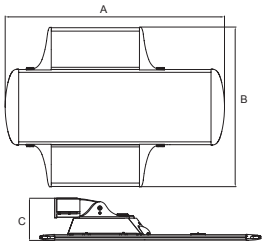
7 YEAR Warranty

Dimensions (mm)

30w-100w



120w-200w (Bifold adjustable panels: ± 45°mm)



Model	A	B	C	D Ø
30w	744.8	407.3	206.8	60
40w	803.8	407.3	206.8	60
50w	896.8	407.3	206.8	60
60w	1081.7	407.3	206.8	60
80w	1361.1	407.3	206.8	60
100w	1640.4	407.3	298.3	60
120w	1361.1	855.3	298.8	60
150w	1547.1	855.3	298.8	60
200w	1733.8	855.3	298.8	60

Suitable for pole diameter 60-80 mm

Ordering information

Item	Watts	Solar Panel	Lumens
AL770020	30w	40w	6000
AL770021	40w	50w	8000
AL770022	50w	60w	10000
AL770023	60w	80w	12000
AL770024	80w	100w	16000
AL770025	100w	120w	20000
AL770026	120w	150w	24000
AL770027	150w	180w	30000
AL770028	200w	240w	40000

CCT

Blank	5700K
6	6500K
4	4000K
3	3000K
2	2700K

Mode Option

H	Hybrid

Modes

Blank	(Mode 1) 100% / 30% Varies by hours Suitable for roads with little to almost no traffic in the late night to early morning hours.
2	(Mode 2) 100% / 30% 12 hours Suitable for roads with low to moderate non-constant traffic.
3	(Mode 3) 60-70% Constant ON Suitable for roads with continuos, frequent traffic.

12 Hour Cycle Lumen Output

Turns on when sunlight is ≤ 10 lux

Day light (off)

Motion

Stand-by
after 10 seconds no motion

Mode 1

Hours of operation	Motion	Stand-by
• First 2 hours	100%	30%
• Next 3 hours	50%	20%
• Next 6 hours	20%	10%
• Last hour	30%	10%

NOTE: First 2 hours: Standy-by operates at 30% brightness. When motion is detected, light increases to 100% until no motion is detected for 10 seconds, then returns to 30% brightness.
(For more hours of operation, see chart above)
*Cloudy days = 3-4

Mode 2

Hours of operation	Motion	Stand-by
• 12 hours	100%	30%

NOTE: Standy-by operates at 30% brightness. When motion is detected, light increases to 100% until no motion is detected for 10 seconds, then returns to 30% brightness.
*Cloudy days = 1-2

Mode 3

Hours of operation	Constant ON
• 10 -12 Hours	60-70%

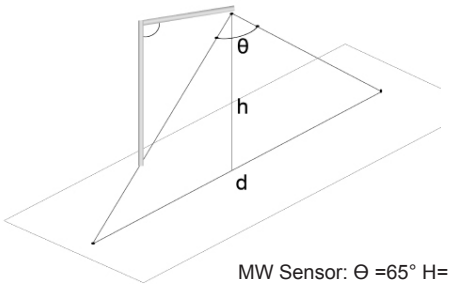
NOTE: No Sensor Mode or Standby Mode
No Sensor
*Cloudy days = <1

*** Declared cloudy days are based on a fully charged battery and might vary depending on how often the sensors are triggered by motion.**

Specifications

Fixture	30w	40w	50w	60w	80w	100w	120w	150w	200w
Solar panel	40w/18V	50w/18V	60w/18V	80w/18V	100w/18v	120w/36V	150w/36V	180w/36V	240w/36V
$LiFePO_4$ Battery	12.8V18AH	12.8V24AH	12.8V30AH	12.8V36AH	12.8V42AH	25.6V24AH	25.6V30AH	25.6V36AH	25.6V48AH
System	12V	12V	12V	12V	12V	24V	24V	24V	24V
Charging time	6 Hrs	6 Hrs	6 Hrs	6 Hrs	6 Hrs	6 Hrs	6 Hrs	6 Hrs	6 Hrs
Cloudy days*	4	4	4	4	4	4	4	4	4
Working hours	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs

Sensor Range



MW Sensor: Θ =65° H= up to 9m D=10m

Tests

- Salt Spray-has no rust after testing 1000 hours, standard testing requirement is no less than 1000 hours, PASS
- Vibration Test according IEC60068-2-6:2007
- EMC Directive 2014/30/EU
- EN IEC 55015:2019+A11:2020
- EN 61547:2009
- EN IEC 61000-3-2:2019/A1:2021
- EN 61000-3-3:2013+A2:2021

Components Lifetime

Solar Panel	25 years
Battery	5 years
Battery Life cycles	2500
LED Chip	100,000 hours

Notes

- 2700K/3000K= 170 lxw
- Horizontal or vertical pole mounted angle is adjustable to 90°
- 120w-200w bi-fold panel can be adjusted ± 45°
- Lumen Tolerance <10%
- Battery Life cycles 2500 = 2800 days

- EPA:

30w = 1.91 ft^2
40w = 2.08 ft^2
50w = 2.30 ft^2
60w = 2.78 ft^2
80w = 3.50 ft^2
100w = 6.08 ft^2
120w = 10.59 ft^2
150w = 12.01 ft^2
200w = 13.48 ft^2

- Housing: Aluminum Plate
- Arm and Bracket: Die Cast Aluminum
- Paint: Electrostatic powder spray
- Hybrid:
- SRNE MPPT controller
- 30-50w = MEH160 / 200w = MEH200
- Drivers: Meanwell:XLG Series / MOSO:V6E

Packing information

Model	CBM (Master)	Pieces/master	Box Dimensions (cm)	Gross weight (Kg)
30w	0.086	1	80 x 45 x 24	13
40w	0.093	1	86 x 45 x 24	14
50w	0.103	1	95 x 45 x 24	16
60w	0.123	1	114 x 45 x 24	18
80w	0.153	1	142 x 45 x 24	20
100w	0.252	1	170 x 45 x 33	24
120w	0.209	1	141 x 45 x 33	28
150w	0.238	1	160 x 45 x 33	32.5
200w	0.266	1	179 x 45 x 33	36

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Equinox Pro™ Series

30w/40w/60w
70w/80w/100w

The sun rises every day—this is the essence of renewable energy. Exterior lighting plays a vital role in protecting property, people, and assets. Solar LED lighting not only enhances visibility but also provides uninterrupted service during brownouts or blackouts. The lights are there when you need them, adapting seamlessly to a wide variety of outdoor applications.

The Equinox Pro™ Series All-in-One Solar Street Light is designed to deliver reliable, high-performance illumination in demanding environments. With a luminous efficacy of up to 170 lumens per watt, it combines a slimline construction with advanced solar and LED technology. Featuring Lumileds 2835 LED chips and an MPPT controller by Sukite, it ensures maximum energy efficiency and long-term stability. The fixture is available with Type II light distribution, ideal for roadways and street-level applications.

Durability is at the core of Equinox Pro™. It features IK08 impact resistance and IP66-rated internal protection, housed in a structure built from galvanized steel, die-cast aluminum, and finished with marine-grade paint. Every component is designed for performance and longevity—even under the harshest conditions.

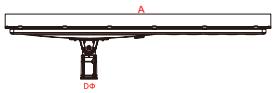
The integrated monocrystalline silicon solar panel offers up to 21.6% energy conversion efficiency with a lifespan of 25 years. The LiFePO4 battery system (lithium iron phosphate) delivers more than 2200 charge cycles and includes Dual Protection Technology, ensuring safe operation under high temperatures and large current discharges.

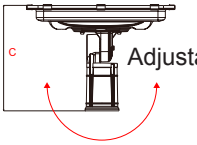
A built-in microwave motion sensor provides adaptive lighting, detecting movement within an 8–10 meter radius and a 120° angle, even from mounting heights up to 10 meters. When no motion is detected, the fixture automatically dims to preserve energy while maintaining a baseline level of illumination.

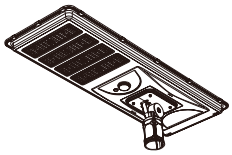
Engineered for all-season performance, the Equinox Pro™ Series is built to withstand everything from blistering heat to torrential rain, hail, and sub-zero temperatures. With certifications including CE, RoHS, and 3G Vibration, it is a smart, future-ready solution for off-grid lighting across infrastructure, municipal, and remote-area applications.

CE | EMC | RoHS | IP66 | IK08 | 3G VIBRATION | Lumens up to 170 L/W | Type II | LiFePO4 Battery | CCT 27-65K | CRI 70 | -20°C~50°C | 50,000 | 5 YEAR Warranty

Dimensions (mm)







Model		A	B	C	D Ø
30w/40w	2 LED Bars	700	350	150	60
60w	3 LED Bars	887	400	285	60
70w/80w	4 LED Bars	1160	400	285	60/76
100w	5 LED Bars	1435	400	285	60/76

D Ø:
30w-60w = 50-60mm
70w-100w = 50-60mm or 66-76mm

Ordering information

Item	Watts	Solar Panel	Lumens
AL770040	30w	45w	5100
AL770041	40w	45w	6800
AL770042	60w	70w	10200
AL770043	70w	85w	11300
AL770044	80w	85w	13600
AL770045	100w	110w	17000

CCT	
Blank	5700K
6	6500K
5	5000K
4	4000K
3	3000K
2	2700K

Mode Options	
Blank	Low Traffic
H	High Traffic

Slipfitter Options	
Blank	60mm
7	76mm (70w-100w)

12 Hour Cycle Lumen Output

Turns on when sunlight is ≤ 6 lux

Day light (off)

Motion

Stand-by
after 20 seconds no motion

Low Traffic Mode

Hours of operation	Motion	Stand-by
• First Hour	100%	30%
• Next 2 hours	80%	20%
• Next 2 hours	60%	15%
• Last 7 hours	40%	10%

NOTE: Standy-by operates at brightness indicated above. When motion is detected, light increases to X% until no motion is detected for 20 seconds, then returns to X% brightness.

High Traffic Mode

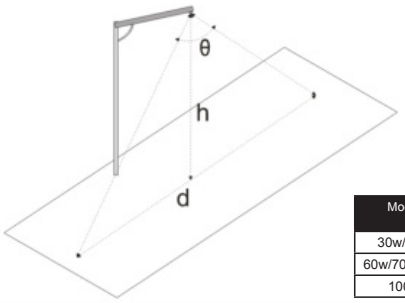
Hours of operation	Motion	Stand-by
• First 2 hours	60%	30%
• Next 2 hours	60%	20%
• Next 2 hours	50%	15%
• Last 6 hours	40%	10%

NOTE: Standy-by operates at brightness indicated above. When motion is detected, light increases to X% until no motion is detected for 20 seconds, then returns to X% brightness.

Specifications

Fixture	**30w**	**40w**	**60w**	**70w**	**80w**	**100w**
Mono-crystalline Solar Panel	45w	45w	70w	85w	85w	110w
	18v	18v	18v	18v	18v	18v
$LiFePO_4$ Battery	100AH	100AH	162AH	162AH	162AH	48AH
	3.2v	3.2v	3.2v	3.2v	3.2v	12.8v
Charging time	5 Hrs	5 Hrs	5 Hrs	5 Hrs	5 Hrs	5 Hrs
Cloudy days	3-5	3-5	3-5	3-5	3-5	3-5
Working hours	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs

Sensor Range-Microwave



Microwave
Θ: 60°
h: 10m max
d: 8-10m

Model	Install Height	Detector Height
30w/40w	4-6M	8-10M
60w/70w/80w	6-8M	8-10M
100w	8-10M	8-10M

Components Lifetime

Mono-crystalline Solar Panel: 25 years
$LifePO_4$ Battery : 3-5 years
Battery Life cycles 2200
LED Chips: 50,000 hours

Notes

- CE/EMC = standard # EN IEC 55015 EN IEC 61547
- CE/LVD = standard # EN IEC 60598-1 EN 60598-2-3
- RoHs = standard: Directive 2011/65/EU & EU No.2015/863
- LED Chips = Lumiled 2835
- Lumens:
  4000K-6500K= 170 lxw
  3000K= 150 lxw
  2700K= 140 lxw
- 70w = 161 lxw @ 4K-65K
- MPPT Controller = Sukite
- Wind resistance: 6-8 Level
- IK not applicable for Solar Panel
- Housing: Galvanized Steel
- Slipfitter: Die Cast Aluminum
- Paint: Marine Grade RAL #7043
- AL7700EP-RC can reach up to 8-10m height
- Battery cells = BYD
- Battery Life cycles 2200 = 2400 days Capacity depreciation less than 20% after 2200 cycles
- Battery maintenance:
  If the battery is not used more than 5-6 months, it will drain. It must be charged or recharged every 4 months to avoid damage and loss of warranty.
- Screws included: 4 Stainless steel M6*20mm
- All conditions are based on a fully charged battery, clear line of sight, and low to medium foot traffic. Any changes in these variables may lead to different outcomes.
- EPA:
  30w = 2.7-3.2 ft^2 70w = 5.4 ft^2
  40w = 2.7-3.2 ft^2 80w = 5.4 ft^2
  60w = 4.3 ft^2 100w = 6.5 ft^2

Packing Information

Model	CBM (Master)	Pieces/master	Box Dimensions (cm)	Gross weight (Kg)
30w/40w	0.0403	1	84 x 40 x 12	7.5
60w	0.0549	1	104 x 44 x 12	11.3
70w/80w	0.0691	1	131 x 44 x 12	14.25
100w	0.0839	1	159 x 44 x 12	15

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Solaris™ Series

30w/60w/90w/120w

Type V-S

IP65 | IK05

CCT 3K-65K | CRI 70 | Lumens up to 100L/W*

LifePO4 Battery | -0°C to 45°C | 60,000

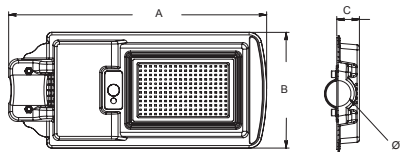
3 YEAR Warranty

The sun comes up every day; that's the definition of renewable energy. Solar street lighting can be used on roadways, rural roads and neighborhood streets to provide additional security to travelers. Dark streets can be a hazard to pedestrians and vehicle travelers alike. Protecting property, people and assets is one of the key jobs of exterior lighting. Security through lighting has been instrumental to deter crime and improve security to the public, business and residential spaces. Solar LED lighting not only offers better visibility, but also security from brownouts and blackouts. The lights are always there when you need them and can adapt to almost any application without additional trenching or added utility costs.

Solaris™ Series "All in One" solar street light was designed to illuminate a wide range of applications for limited budget projects. Turns on when sunlight is ≤ 50 lux, operates @ 100% lumen output, after 18 sec of no motion it turns to 10% lumen output. Its working cycle of up to 12 hours allows to serve efficiently, and recharges in 8 hours. It can operate up to 1 day without full charge. Recommended mounting 3-4m. Solaris™ Series will provide an Irradiation area up to 140m².

LED solar lights require very little maintenance and are easier to install than their wired counterparts. Underground wiring, on-site transformers and electrical enclosures are typically more costly than installing new solar lights. LED technology means that the lamps require fewer replacements, can be controlled and provide significant energy savings over traditional lamps. Solar means there is no electric bill...ever.

Dimensions (mm)



Model	A	B	C	Ø
30w	371	171	44.5	38
60w	412	203	44.5	48
90w	508	228	44.5	48
120w	641	248	45.0	48

Suitable for pole 38mm / 48mm

Wall Mount Bracket:

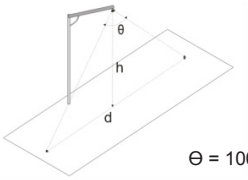
30w = Ø38 x 360mm

60w-120w = Ø48 x 360mm

Specifications

Nominal Power	30w	60w	90w	120w
Working Power	10w	20w	40w	50w
Fixture (lumens)	1000	2000	4000	5000
Solar Panel	6w 5v	7.5w 4.5v	14w 4.5v	17.5w 4.5v
Battery	4AH	8AH	12AH	16AH
Voltage	3.2v	3.2v	3.2v	3.2v
Charging time	8 Hrs	8 Hrs	8 Hrs	8 Hrs
Cloudy days	1	1	1	1
Working hours	12 Hrs	12 Hrs	12 Hrs	12 Hrs

Sensor Range



Θ = 100° H = 3-4m D = 3-4m

Ordering information

Item	Watts	Lumens
AL770030	30w	1000
AL770031	60w	2000
AL770032	90w	4000
AL770033	120w	5000
Bracket		
AL770034	30w	
AL770035	60w-120w	

CCT	
Blank	6500K
5	5000K
4	4000K
3	3000K

Options

B Bracket Included

Components Lifetime

Solar Panel	3 years
Battery	2000 cycles / 3 Years
LED Chip	60,000 hours

Ensure battery is fully charged every six months to prevent degradation.

Notes

- Lumens:
  6500K = 100 lxw
  5000K = 97 lxw
  4000K = 94 lxw
  3000K = 90 lxw
- * Based on working power
- 6500K = 6500-7000K
- Lumens tolerance 10%
- Solar Panel = IK03
- Battery:Lithium phosphate / LifePO4
- Microwave Motion Sensor: 5.8G
- Housing: ABS
- Lens: PC
- Remote control included (batteries not included)

All conditions are based on a fully charged battery, clear line of sight, and low to medium foot traffic. Any changes in these variables may lead to different outcomes.

- Remote Functions with Sensor: at sunset automatically turns ON:
  AUTO: On @ 10%, Sensor to 100% for 18 seconds, cycle up to 10-12 hours.
  6H:On @ 10%, Sensor to 100% for 18 seconds, cycle up to 6 hours.
  4H:On @ 20%, Sensor to 100% for 18 seconds, cycle up to 4 hours.
  2H:On @ 30%, Sensor to 100% for 18 seconds, cycle up to 2 hours.
- Remote Functions with disable Sensor (all cases output until battery low)
  Dim: 40% first 1/2 hour, 20% next 2.5 hours,10% output until battery low, up to 12 hours
  Full: On 100%, output until battery low, up to 2 hours
  Partial: On 20% , output until battery low, up to 10-12 hours

Packing information

With Bracket

Model	CBM (Master)	Pieces/master	Box Dimensions (cm)	Gross weight (Kg)
30w	0.0732	6	53 x 42.5 x 32.5	13.8
60w	0.0700	5	45 x 44.5 x 35	13.5
90w	0.0897	5	54.5 x 44.5 x 37	16
120w	0.0954	4	68 x 36 x 39	16

Without Bracket

Model	CBM (Master)	Pieces/master	Box Dimensions (cm)	Gross weight (Kg)
30w	0.0406	6	44 x 42 x 22	13.8
60w	0.0416	5	45 x 37 x 25	7.7
90w	0.0544	5	54.5 x 37 x 27	10.4
120w	0.0601	4	68 x 30 x 29.5	11.3

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Sentinel™ Series

30w/60w/90w/120w/180w

CE | IP66 | IK06

CCT 6500K | CRI 70 | 100° Beam angle

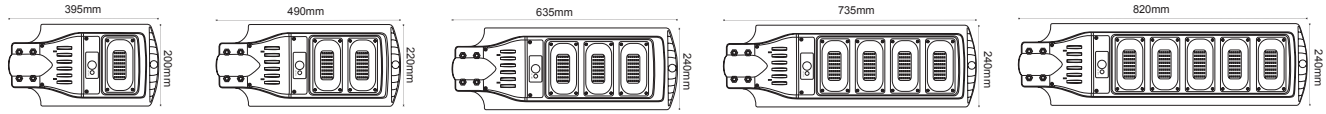
-20°C~60°C | 20,000 | 2 YEAR Warranty

The sun comes up every day; that's the definition of renewable energy. Solar street lighting can be used on highways, roadways, rural roads and neighborhood streets to provide additional security to travelers. Dark streets can be a hazard to pedestrians and vehicle travelers alike. Protecting property, people and assets is one of the key jobs of exterior lighting. Security through lighting has been instrumental to deter crime and improve security to the public, business and residential spaces. Solar LED lighting not only offers better visibility, but also security from brownouts and blackouts. The lights are always there when you need them and can adapt to almost any application without additional trenching or added utility costs.

Sentinel™ Series "All in One" solar street light was designed to illuminate a wide range of applications for limited budget projects. Turns on when sunlight is ≤ 50 lux, operates @ 100% lumen output, after 15 sec of no motion it turns to 30% lumen output. Its working cycle of 10-12 hours allows to serve efficiently, and recharges in 5-6 hours. *It can operate up to 1 day without full charge. Recommended mounting 4-6m. Sentinel™ Series will provide an Irradiation area up to 200m².

LED solar lights require very little maintenance and are easier to install than their wired counterparts. Underground wiring, on-site transformers and electrical enclosures are typically more costly than installing new solar lights. LED technology means that the lamps require fewer replacements, can be controlled and provide significant energy savings over traditional lamps. Solar means there is no electric bill...ever.

Dimensions (mm)



30w | 60w | 90w | 120w | 180w

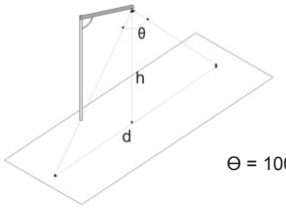
Suitable for pole diameter: Ø 45-52mm (max)

Specifications

Nominal Power	30w	60w	90w	120w	180w
Working Power	4w	8w	12w	13.5	18w
Solar Panel (DC6V)	8w	14w	18w	22w	25w
Battery	5AH	10AH	15AH	18 AH	20AH
Charging time	5-6Hrs	5-6 Hrs	5-6Hrs	5-6 Hrs	5-6 Hrs
Cloudy days	1	1	1	1	1
Working hrs (@ full power up to)	10-12	10-12	10-12	10-12	10-12
Stand by	12 Hrs	12 Hrs	12 Hrs	12 Hrs	12 Hrs
Irradiation area	80m²	120m²	160m²	200m²	240m²

- Turns on when sunlight is ≤ 50 lux
  Motion: 100% lumen output
  Stand-by (after 15 sec no motion) 30% lumen output
  Battery: 32650 Lithium phosphate DC3.2V
- Battery Life cycles 1000 =1000 days
- Remote Control included

Sensor range



Θ = 100° H = 6-8m D = 6m

Components Lifetime

Solar Panel	Up to 3 years
Battery	1000 cycles*
LED Chip	20,000 hours

If the battery is not used more than 5-6 months, it will die. So it must be charged or recharged before 5-6 months.

Ordering information

Item	Watts	Lumens
AL574407	30w	500
AL574408	60w	1000
AL574409	90w	1400
AL574420	120w	1500
AL574421	180w	2000

Accessory

B Bracket (includes 4 screws)

Note

*Fixture will work 1 day at 30% brightness without charging under cloudy days.
- Recommended installation height: 4-6m

Packing information

Model	CBM (Master)	Pieces/master	Box Dimensions (cm)	Gross weight (Kg)
30w	0.0559	10	41 x 32.5 x 42	14
60w	0.0390	5	50 x 32.5 x 24	10.5
90w	0.0540	5	64 x 32.5 x 26	12.5
120w	0.0625	5	74 x 32.5 x 26	15
180w	0.0750	5	84 x 33.5 x 26.5	16
Bracket	0.0600	30	50 x 40 x 30	24

americanlite®

Solara™ Series

CCT Selectable
23w/40w/50w

Type V

IP65 | IK07 | Lumens 165L/W* | CCT Selectable | Microwave Motion Sensor | LifePO4 Battery | CRI 70 | -0°C to 50°C | up to 30,000 | 3 YEAR Warranty

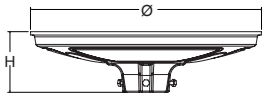
The sun rises daily providing a consistent and renewable energy source. Solar street lighting systems are applicable for recreational parks, rural and residential streets, and secondary roads, offering enhanced visibility and safety while improving the aesthetic of public spaces. Unlit pathways and roads pose potential hazards for pedestrians and vehicles.

Exterior lighting plays a critical role in public safety by reducing risk and acting as a deterrent to criminal activity. Solar-powered LED lighting ensures illumination independent of grid failures, offering resilience against blackouts and brownouts. These systems are designed for autonomous operation in diverse environments,eliminating the need for trenching and additional utility infrastructure.

The Solara™ Series “All in One” Solar Post Top is engineered for budget-sensitive installations across a variety of low-traffic or decorative lighting applications. The unit activates automatically when ambient light levels fall below ≤ 50 lux, delivering 100% light output. After 18 seconds of no motion detection, the output reduces to 10% to conserve energy. A full operating cycle ranges from 10 to 12 hours, with a typical recharge time of 6–8 hours. The system includes energy storage sufficient to function up to 2 days without full solar input. Recommended installation height: 3–4 meters. Effective coverage area: up to 15m².

The Solara™ Series requires minimal routine maintenance and offers straightforward installation compared to conventional grid-powered systems. Unlike traditional lighting, which often involves underground cabling, on-site transformers, and electrical enclosures, the Solara Series simplifies deployment with no trenching or external wiring required. Built on efficient LED technology, it reduces replacement frequency, supports intelligent control features, and delivers long-term energy savings.

Dimensions (mm)



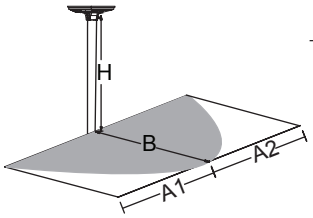
Model	D	H	Arm Ø
23w	420	123	60
40w	520	137	60
50w	520	137	60

Suitable for pole 58-60mm

Specifications

Nominal Power	230w	400w	500w
Working Power	14w	24w	30w
Fixture (lumens)	2300	4000	5000
Solar Panel	15w	24w	24w
Battery	3.2V 12AH	3.2V 20AH	3.2V 20AH
Voltage	3.2v	3.2v	3.2v
Charging time	6-8 Hrs	6-8 Hrs	6-8 Hrs
Cloudy days	1-2	1-2	1-2
Working hours	10-12 Hrs	10-12 Hrs	10-12 Hrs

Sensor Range



H(m)	A1(m)	A2(m)	B(m)
3	5	5	4
4	4	4	3.5

Ordering information

Item	Watts	Lumens	CCT Selectable
AL577130	23w	2300	3K/4K/65K
AL577131	40w	4000	3K/4K/65K
AL577132	50w	5000	3K/4K/65K

Components Lifetime

Solar Panel	3 years
Battery	2000 cycles / 3 Years
LED Chip	60,000 hours

Ensure battery is fully charged every six months to prevent degradation.

Notes

- Lumens: 165 lxw* Based on working power
- Lumens tolerance 10%
- LED Chips: SMD 2835
- LED Chips Qty: 23w = 156 pcs 40w/50w = 248 pcs
- Battery needs to be 100% charged for correct operation
- Manufactured to comply with CE & RoHS

- Battery: Lithium phosphate / LifePO4
- Microwave Motion Sensor: 5.8G
- Housing Color: Pantone Gool Gray 11U
- Housing: ABS
- Lens: PC
- Remote Control included (batteries not included)

- **Remote Functions with Sensor:**

1. **At Sunset 10% / motion** = 100% (Auto & L Mode,18 sec, approx 10-12 hours of operation when fully charged and low traffic mode)
2. **At Sunset 20% / motion** = 100% (M Mode,18 sec, approx 6 hours of operation when fully charged and low traffic mode)
3. **At Sunset 30% / motion** = 100% (H Mode 18 sec, approx 4 hours of operation when fully charged and low traffic mode)

- **Remote Functions with sensor disabled:**

Dim: On at 40% for first half hour, 20% next 2.5 hours,10% output until battery is low up to 12 hours lighting time with fully charged battery

Full: On at 100% until battery is low up to 1.5 hours lighting time with fully charged battery

Partial: On at 20% until battery is low up to 10 hours lighting time with fully charged battery

Packing information

Model	CBM (Master)	Pieces/master	Box Dimensions (cm)	Gross weight (kg)
23w	0.0363	2	46.5 x 16.8 x 46.5	3.6
40w	0.0517	2	56.5 x 16.2 x 56.5	5.5
50w	0.0517	2	56.5 x 16.2 x 56.5	5.5

Warranty

Americanlite® is pleased to provide a 7, 5, 3 or 2 year limited warranty covering the LED fixtures on this catalogue. Americanlite® warrants that the LED fixtures comply with Americanlite®'s published specifications and are free from defects in materials and workmanship.

All our equipment is CE, ETL or UL approved and manufactured with approved components. Americanlite® reserves the right to change or improve the design or components of any of its products due to parts availability or changes in standards, without assuming any obligation to modify any product previously manufactured and without notice. All equipment is tested and inspected before shipment.

This warranty is void if the product is operated outside of its normal operating conditions. The foregoing warranty does not apply to failures caused by acts of God or as a result of any abuse, misuse, abnormal use, or use in violation of any applicable standard, code or instructions for use in installations, including, but not limited to, those contained in the Standards for the International Electrotechnical Commission. Americanlite® reserves and has the right to examine failed fixtures to determine the cause of failure, excessive lumen depreciation and patterns of usage.