



Solar Streetlite™

americanlite®

We light your world™



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 marine grade aluminum 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 2000 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.

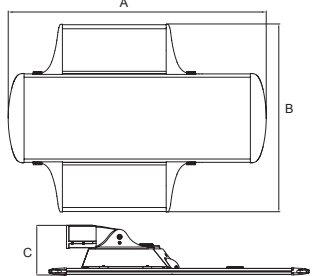
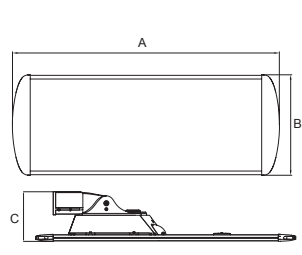
The Dynamo Pro™ Series is built to survive the toughest and most extreme weather conditions, including scorching heat, driving rain, hail, and below-freezing cold.

| | | | |
|--------------------|----------------|-----------------------|--|
| Type II | | | |
| IP66 | IK09 | 3G VIBRATION | |
| Lumens 200 L/W | CCT 5700K | CRI 70 | |
| LifePO4 Battery | -20°C~60°C | 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 | CCT | Options |
|-----------|----------------|-------------|--------|-------|------------------------------|
| AL770020 | 30w | 40w | 6000 | Blank | MPPT |
| AL770021 | 40w | 50w | 8000 | 6 | 5700K |
| AL770022 | 50w | 60w | 10000 | 4 | 6500K |
| AL770023 | 60w | 80w | 12000 | 3 | 4000K |
| AL770024 | 80w | 100w | 16000 | | 3000K |
| AL770025 | 100w | 120w | 20000 | | NS |
| AL770026 | 120w | 150w | 24000 | | No Sensor |
| AL770027 | 150w | 180w | 30000 | | 1 |
| AL770028 | 200w | 240w | 40000 | | 100% / 30% (motion/stand-by) |
| AL7700-RC | Remote control | | | | |
| | | | | | 2 |

12 Hour Cycle Lumen Output

Turns on when sunlight is ≤ 10 lux



Day light (off)



Motion



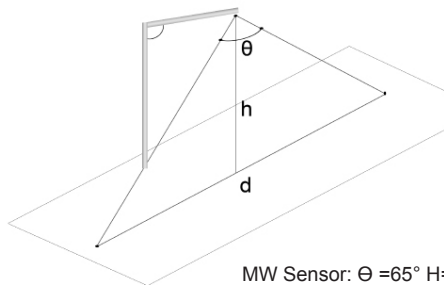
Stand-by
after 15 seconds no motion

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

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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Working hours | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs |

Sensor Range



MW Sensor: $\theta = 65^\circ$ 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 |
| LED Chip | 100,000 hours |

Notes

- 3000K= 180 lxw
- Horizontal or vertical pole mounted angle is adjustable to 90°
- 120w-200w bi-fold panel can be adjusted $\pm 45^\circ$
- 30W-60W=PWM std, MPPT available upon request
- 100w-200w MPPT Standard
- Lumen Tolerance $<7\%$

• EPA:

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

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 |

Cyclone™ Series

30w/40w/50w/60w/80w/100w



The sun comes up every day; that's the definition of renewable energy. Protecting property, people and assets is one of the key jobs of exterior lighting. 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.

Cyclone™ Series "All in One" solar street light was specially designed to illuminate a wide range of applications, is the world's most efficient LED Solar lighting system, with a stunning up to 170 lxw. Its clever design and slim line construction incorporate the latest solar power and LED technology, Lumileds 5050 LED Chips, providing many years of consistent performance and operational reliability. We offer 4 lighting distributions: Type II and Type III for Roadways and Street applications, and 2 for floodlight applications: 60° & 90° round pattern.

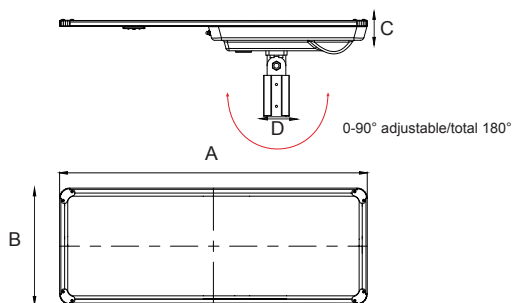
Cyclone™ Series rugged construction is up for the challenge, IK09 rating. Its internal components offer IP66 weather protection with marine grade aluminum and stainless-steel fixings. Cyclone™ Series components are the most advanced available in the market. An integrated monocrystalline silicon solar panel, with a conversion rate up to 19%, and 25-years lifespan. LiFePO4 battery system: a non-heavy lithium iron phosphate battery, combined with Dual Protection Technology (charge and discharge/high temperature performance / large current discharge) with a lifespan > 2000 cycles. PIR Sensor allows detection up to 8m mounting high and a perimeter of 7 meters with a 60 angle in all direction. Optional Microwave Sensor allows detection up to 10m mounting high and a perimeter of 9 meters with a 60 angle in all direction.

Cyclone™ Solar fixture has a built-in passive microwave motion sensor that automatically regulates the LED light output from full brightness to a lower level depending upon the detection of movement around the light. IOT system (optional), allows monitoring and manage the working status of each component. MPPT system (optional) can track the solar panel maximum power generation up to 98%.

Cyclone™ Series has been designed to withstand the harshest and most extreme environments has to offer, from blistering heat to driving rain, hail and sub-zero temperatures.

| | | |
|---------------------------|-----------------------------|-----------------------|
| Type II | Type III | |
| 60° Beam Angle | 90° Beam Angle | |
| CE | RoHS | IP66 |
| IK09 | Lumens up to 170 L/W | CCT 5700K |
| CRI 70 | LifePO4 Battery | -20°C~50°C |
| 7 YEAR Warranty | | |

Dimensions (mm)



| Model | A | B | C | D Ø |
|-------|------|-----|-------|-----|
| 30w | 735 | 373 | 107.8 | 62 |
| 40w | 880 | 373 | 107.8 | 62 |
| 50w | 988 | 373 | 107.8 | 62 |
| 60w | 1352 | 373 | 107.8 | 62 |
| 80w | 1382 | 373 | 107.8 | 62 |
| 100w | 1382 | 373 | 107.8 | 62 |

Suitable for pole diameter 40-60mm

Ordering information

| Item | Watts | Solar Panel | Lumens | Options | | | | | |
|-----------|----------------|-------------|--------|--------------|-------|--------------|----------|--------------|---------------------------------|
| AL574410 | 30w | 40w | 5100 | Blank | 5700K | Blank | Type II | Blank | PWM |
| AL574411 | 40w | 50w | 6800 | 6 | 6500K | 3 | Type III | MW | Microwave Sensor |
| AL574412 | 50w | 60w | 8500 | 5 | 5000K | 6 | 60° | M | MPPT |
| AL574413 | 60w | 80w | 10200 | 4 | 4000K | 9 | 90° | I | IOT |
| AL574414 | 80w | 100w | 13600 | 3 | 3000K | | | 1 | 100% / 30% (motion/stand-by) |
| AL574415 | 100w | 100w | 17000 | 2 | 2700K | | | 2 | 70% of lumens constant ON |
| AL5744-RC | Remote control | | | | | | | | |

• IOT system: monitoring and manage remote background data, real-time status of each Cyclone™ solar energy component.

12 Hour Cycle Lumen Output

Turns on when sunlight is ≤ 6 lux



Day light (off)



Motion



Stand-by
after 15 seconds no motion

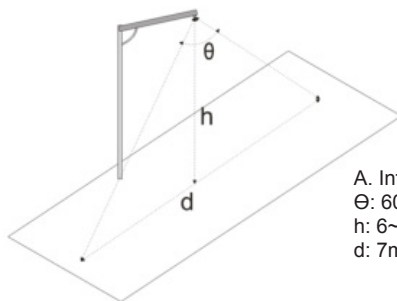
| Hours of operation | | |
|--------------------|------|-----|
| • First 2 hours | 100% | 30% |
| • Next 3 hours | 50% | 20% |
| • Next 6 hours | 20% | 10% |
| • Last hour | 30% | 10% |

NOTE: SELECTING OPTION "2" = CONSTANT LUMEN OUTPUT WILL REMAIN ON FOR AT LEAST 12 HOURS, NO SENSOR / STANDBY OPTION

Specifications

| Fixture | 30w | 40w | 50w | 60w | 80w | 100w |
|---------------|--------|--------|--------|--------|--------|--------|
| Solar Panel | 40w | 50w | 60w | 80w | 100w | 100w |
| | 18v | 18v | 18v | 18v | 18v | 18v |
| Battery | 18AH | 24AH | 27AH | 33AH | 42AH | 55AH |
| | 12.8v | 12.8v | 12.8v | 12.8v | 12.8v | 12.8v |
| Charging time | 6 Hrs | 6 Hrs | 6 Hrs | 6 Hrs | 6 Hrs | 6 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



A. Infrared
 θ : 60°
 h: 6~8m
 d: 7m

B. Microwave
 θ : 60°
 h: 6~10m
 d: 9m

Tests

Salt Spray-has no rust after testing 1000 hours, standard testing requirement is no less than 100,000 hours, PASS

Components Lifetime

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

Notes

- Wind resistance rating 145 mph
- Selecting option "2" = 70% constant lumen output will remain on for 10-12 hours, no sensor/standby option
- Life cycles for the battery > 2000
- If the battery is not used more than 5-6 months, it will die. Suggested to charge battery every 3 months.

EPA Horizontal:
 30W: 2.41ft*1.22ft*0.86=2.53ft²
 40W: 2.89ft*1.22ft*0.86=3.03ft²
 50W: 3.25ft*1.22ft*0.86=3.41ft²
 60W: 4.44ft*1.22ft*0.86=4.66ft²
 80W: 4.86ft*1.22ft*0.86=5.10ft²
 100W: 4.86ft*1.22ft*0.86=5.10ft²

EPA with angle:
 30W: 2.41ft*1.22ft*0.7=2.06ft²
 40W: 2.89ft*1.22ft*0.7=2.47ft²
 50W: 3.25ft*1.22ft*0.7=2.78ft²
 60W: 4.44ft*1.22ft*0.7=3.79ft²
 80W: 4.86ft*1.22ft*0.7=4.15ft²
 100W: 4.86ft*1.22ft*0.7=4.15ft²

Packing Information

| Model | CBM (Master) | Pieces/master | Box Dimensions (cm) | Gross weight (Kg) |
|------------|--------------|---------------|---------------------|-------------------|
| 30w | 0.0679 | 1 | 83 x 45.5 x 18 | 11.7 |
| 40w | 0.0798 | 1 | 97.5 x 45.5 x 18 | 13.1 |
| 50w | 0.0886 | 1 | 108.3 x 45.5 x 18 | 14 |
| 60w | 0.1185 | 1 | 144.7 x 45.5 x 18 | 17.1 |
| 80w / 100w | 0.1291 | 1 | 157.7 x 45.5 x 18 | 20.4 |

Equinox™ Series

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



The sun comes up every day; that's the definition of renewable energy. Protecting property, people and assets is one of the key jobs of exterior lighting. 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.

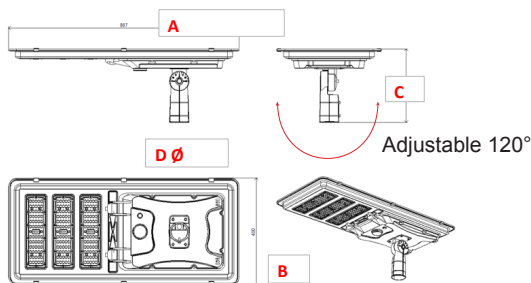
Equinox™ Series "All in One" solar street light was specially designed to illuminate a wide range of applications, is the world's most efficient LED Solar lighting system, with a stunning up to 170 lxw. Its clever design and slim line construction incorporate the latest solar power and LED technology, Lumileds 2835 LED Chips, providing many years of consistent performance and operational reliability. We offer Type II for Roadways and Street applications.

Equinox™ Series rugged construction is up for the challenge, IK08 rating. Its internal components offer IP65 weather protection with marine grade die cast aluminum and stainless-steel fixings. Equinox™ Series components are the most advanced available in the market. An integrated monocrystalline silicon solar panel, with a conversion rate up to 21.6%, and 25-years lifespan. LiFePO4 battery system: a non-heavy lithium iron phosphate battery, combined with Dual Protection Technology (charge and discharge/high temperature performance / large current discharge) with a lifespan 1700- 2000 cycles. Microwave Sensor allows detection up to 10m mounting high and a perimeter of 6-8 meters with a 120° angle in all direction.

Equinox™ Solar fixture has a built-in passive microwave motion sensor that automatically regulates the LED light output from full brightness to a lower level depending upon the detection of movement around the light.

Equinox™ Series has been designed to withstand the harshest and most extreme environments has to offer, from blistering heat to driving rain, hail and sub-zero temperatures.

Dimensions (mm)



| Model | | A | B | C | D Ø |
|---------|------------|------|-----|-----|-----|
| 30w/40w | 2 LED Bars | 700 | 350 | 150 | 60 |
| 60w | 3 LED Bars | 887 | 400 | 280 | 60 |
| 80w | 4 LED Bars | 1160 | 400 | 280 | 76 |
| 100w | 5 LED Bars | 1435 | 400 | 280 | 76 |

Suitable for pole diameter 60-76mm

Ordering information

| Item | Watts | Solar Panel | Lumens | CCT | Option |
|----------|-------|-------------|--------|--------------------|----------------------------------|
| AL770009 | 30w | 40w | 5100 | Blank 5700K | Blank 100% / 30% (Mode 1) |
| AL770010 | 40w | 40w | 6800 | 6 6500K | X 100% / 40% (Mode 2) |
| AL770011 | 60w | 60w | 10200 | 5 5000K | Y 70% / 30% (Mode 3) |
| AL770012 | 80w | 80w | 13600 | 4 4000K | |
| AL770013 | 100w | 100w | 17000 | 3 3000K | |
| | | | | 2 2700K | |

Remote Controls

| | |
|----------|---------------------|
| AL770017 | On/Off |
| AL770018 | Mode Set up 40w-80w |
| AL770019 | Mode Set up 100w |

12 Hour Cycle Lumen Output

Turns on when sunlight is ≤ 6 lux



Day light (off)



Motion



Stand-by
after 30 seconds no motion

Mode 1

| Hours of operation | Motion | Stand-by |
|--------------------|--------|----------|
| • First 2 hours | 100% | 30% |
| • Next 3 hours | 80% | 30% |
| • Next 6 hours | 60% | 20% |
| • Last hour | 20% | 20% |

NOTE: Stand-by operates at 30% brightness. When motion is detected, light increases to 100% until no motion is detected for 30 seconds, then returns to 30% brightness.

Mode 2

| Hours of operation | Motion | Stand-by |
|--------------------|--------|----------|
| • First 2 hours | 100% | 40% |
| • Next 3 hours | 70% | 30% |
| • Next 6 hours | 50% | 20% |
| • Last hour | 30% | 10% |

NOTE: Stand-by operates at 40% brightness. When motion is detected, light increases to 100% until no motion is detected for 30 seconds, then returns to 40% brightness.

Mode 3

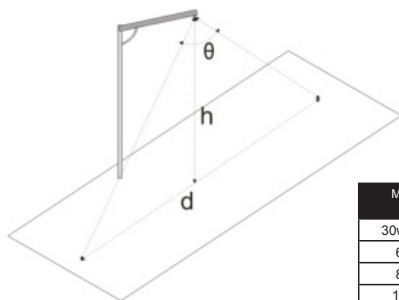
| Hours of operation | Motion | Stand-by |
|--------------------|--------|----------|
| • 12 Hours | 70% | 30% |

NOTE: Stand-by operates at 30% brightness for 12 hours. When motion is detected, light increases to 70% until no motion is detected for 30 seconds, then returns to 30% brightness.

Specifications

| Fixture | 30w | 40w | 60w | 80w | 100w |
|------------------------------|--------|--------|--------|--------|--------|
| Mono-crystalline Solar Panel | 40w | 40w | 60w | 80w | 100w |
| | 18v | 18v | 18v | 18v | 36v |
| LiFePO ₄ Battery | 36AH | 36AH | 42AH | 54AH | 36AH |
| | 12.8 | 12.8v | 12.8v | 12.8v | 25.6v |
| Charging time | 5Hr | 5 Hrs | 5 Hrs | 5 Hrs | 5 Hrs |
| Cloudy days | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 |
| Working hours | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs |

Sensor Range-Microwave



Microwave
 Θ : 120°
 h: 10~12m
 d: 6-8m

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

Components Lifetime

Mono-crystalline Solar Panel: 25 years
 LiFePO₄ Battery : 3-5 years
 Battery Life cycles > 1500
 LED Chips: 50,000 hours

Notes

- Wind resistance: 6-8 Level
- IK06 for Solar Panel
- Battery Life cycles > 1500 (@ 2500 days)
- Low traffic of people = Recommended mode 3
 High traffic of people = Recommended mode 1 or 2
- 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.
- 30w & 40w = PWM
- 60w & 100w = MPPT

Packing Information

| Model | CBM (Master) | Pieces/master | Box Dimensions (cm) | Gross weight (Kg) |
|---------|--------------|---------------|---------------------|-------------------|
| 30w/40w | 0.0408 | 1 | 85 x 40 x 12 | 9 |
| 60w | 0.0559 | 1 | 103.5 x 45 x 12 | 11.3 |
| 80w | 0.0707 | 1 | 131 x 45 x 12 | 16 |
| 100w | 0.0856 | 1 | 158.5 x 45 x 12 | 18.5 |

Solstice™ Series

1000/2000/3000 lumens



The sun comes up every day; that's the definition of renewable energy. Protecting property, people and assets is one of the key jobs of exterior lighting. 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.

Solstice™ Series "All in One" solar streetlight was specially designed to illuminate a wide range of applications, with the simplest operation system. We have integrated an IR (Radar Sensor) inside the fixture's control panel to offer a wide range of setting modes using the remote control. From *Radar Sensing Mode to Constant Light Up Mode to Timing Mode*, we offer them all. When *Constant Light Up Mode* is selected, Solstice™ Series turn on at night when sunlight is below 10Lux and will turn off when light levels are > 50 lux; constant lumen output for a full 12 hour cycle, same as a non-solar fixture, but without any power or utility costs. Its clever design incorporates the latest solar power and LED technology, providing many years of consistent performance and operational reliability. Lighting distribution Type II-M.

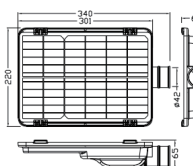
Solstice™ Series rugged construction is up for the challenge, IK08 rating and IP66 weather protection with marine grade aluminum and stainless-steel fixings. Solstice™ Series components are the most advanced available in the market. San'an® 3030 LED Chips, an integrated monocrystalline silicon solar panel, with a conversion rate up to 19.8%, and 25-years lifespan. LiFePO4 battery system: a non-heavy lithium iron phosphate battery, combined with Dual Protection Technology offering a powerful lifespan > 2000 cycles.

Solstice™ Series has been designed to withstand the harshest and most extreme environments has to offer, from blistering heat to driving rain, hail, and sub-zero temperatures.

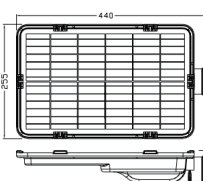


Dimensions (mm)

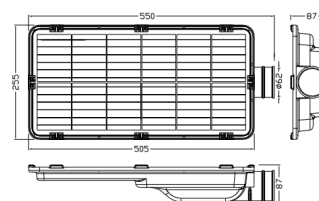
1000 lms (for pole diameter: 40-42mm)



2000 lms (for pole diameter: 50-52mm)



3000 lms (for pole diameter: 60-62mm)



Specifications

| Fixture (lumens) | 1000 | 2000 | 3000 |
|------------------|---------|---------|---------|
| Solar Panel | 6v 10w | 6v 15w | 6v 20w |
| Battery | 33-36WH | 36-40WH | 58-62WH |
| Voltage | 3.2v | 3.2v | 3.2v |
| Charging time | 4-5 Hrs | 4-5 Hrs | 4-5 Hrs |
| Cloudy days | 3-4 | 3-4 | 3-4 |
| Working hours | 12 Hrs | 12 Hrs | 12 Hrs |

Ordering information

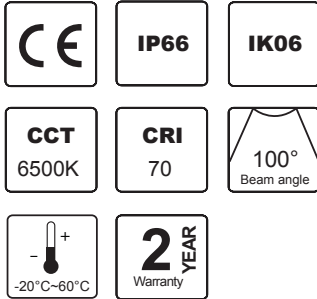
| Item | Lumens | Options |
|----------|--------|--------------------|
| AL770001 | 1000 | Blank 6000K |
| AL770002 | 2000 | 5 5000K |
| AL770003 | 3000 | 4 4000K |
| | | 3 3000K |

Notes

- Remote control function
- 1. 'OFF': Turn off the fixture.
- 2. 'Induction': (Radar sensing mode) Once moving object detected, light up 100% automatically, and light dimming to 10% once pedestrian leave away.
- 3. 'Always': (Constant light up mode) Working time: 70% for 1-2 hrs, 50% for 3 hrs, then 20% for 8 hrs.
- 4. '2H': (Timing mode) Working time: 70% for 1 hour, 50% for 1 hour, then light work as Radar sensing mode.
- 5. '4H': (Timing mode) Working time: 70% for 1 hour, 50% for 3 hrs, then light work as Radar sensing mode.
- 6. '6H': (Timing mode) Working time: 70% for 1 hour, 50% for 3 hrs, and 20% for 2 hrs, then light work as Radar sensing mode.
- Wind resistance rating 65m/s
- Salt Spray has no rust after testing 400 hours
- EPA: 1000w = 0.7ft²
2000w = 1.05 ft²
3000w = 1.31 ft²
- Life cycles for the battery > 2000
- If the battery is not used more than 5-6 months, it will die. Suggested to charge battery every 3 months.

Packing Information

| Model | CBM (Master) | Pieces/Master | Master Carton Dimensions (cm) | Gross weight (Kg) |
|-------------|--------------|---------------|-------------------------------|-------------------|
| 1000 lumens | 0.0406 | 1 | 47 x 36 x 24 | 8 |
| 2000 lumens | 0.0556 | 1 | 45.5 x 44.5 x 27.5 | 12 |
| 3000 lumens | 0.0621 | 1 | 56.5 x 40 x 27.5 | 13 |

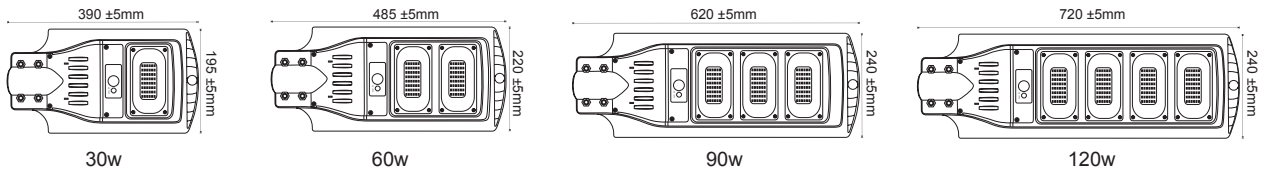


The sun comes up every day; that's the definition of renewable energy. Solar street lighting can be used on highways, roadways, rural roads and neighborhood streets to provide additional security to travelers. Dark streets can be a hazard to pedestrians and vehicle travelers alike. Protecting property, 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 2 days 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)



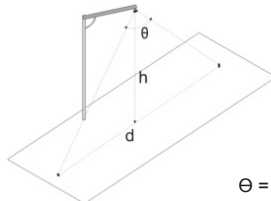
Suitable for pole diameter: \varnothing 45-52mm (max)

Specifications

| Nominal Power | 30w | 60w | 90w | 120w |
|----------------------------------|------------------|-------------------|-------------------|-------------------|
| Working Power | 4w | 8w | 12w | 13.5 |
| Solar Panel (DC6V) | 8w | 12w | 15w | 18w |
| Battery | 5AH | 10AH | 15AH | 18 AH |
| Charging time | 5-6Hrs | 5-6 Hrs | 5-6Hrs | 5-6 Hrs |
| Cloudy days | 2 | 2 | 2 | 2 |
| Working hrs (@ full power up to) | 10-12 | 10-12 | 10-12 | 10-12 |
| Stand by | 12 Hrs | 12 Hrs | 12 Hrs | 12 Hrs |
| Irradiation area | 80m ² | 120m ² | 160m ² | 200m ² |

- 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
- Remote Control included

Sensor range



$\Theta = 100^\circ$ 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 | 900 |
| AL574409 | 90w | 1400 |
| AL574420 | 120w | 1600 |

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 |



Warranty

Americanlite® is pleased to provide a 7, 5 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.