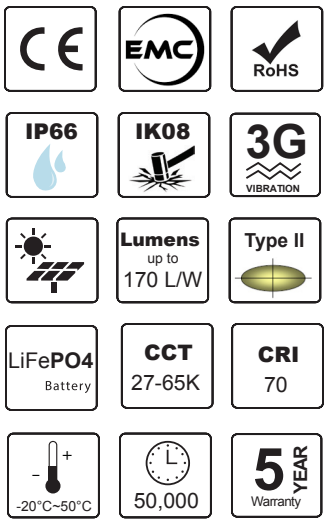
Equinox Pro™ Series

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.

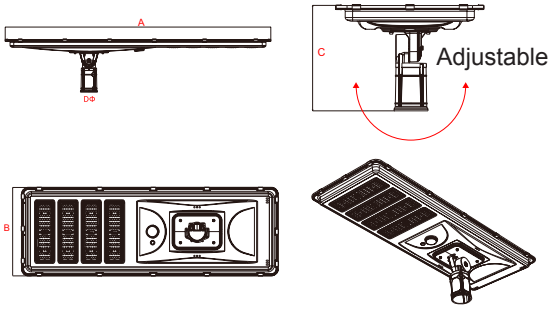
Durability is at the core of Equinox Pro™. It features IK08 impact resistance and IP66-rated internal protection, housed in a structure built from galvanized steel, die-cast aluminum, and finished with marine-grade paint. Every component is designed for performance and longevity—even under the harshest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

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)

Remote Control
AL7700EP-RC

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

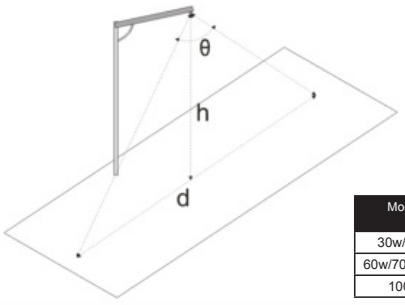
Hours of operation	Motion	Stand-by
• First 2 hours	60%	30%
• Next 2 hours	60%	20%
• Next 2 hours	50%	15%
• Last 6 hours	40%	10%

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 ft² 70w = 5.4 ft²
  40w = 2.7-3.2 ft² 80w = 5.4 ft²
  60w = 4.3 ft² 100w = 6.5 ft²

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