

AE6 Series

3rd Generation

All-In-One (AIO) Solar Lighting Systems

ULTRON
Version

- All-In-One system with Bi-Facial solar panel technology improves power generation
- Adaptive lighting using PIR sensor increases battery autonomy
- Expandable solar engine configuration: 130W / 260W / 390W
- High Powered "CREE" LED module (180Lm/W) ranges from 20W to 40W LED output
- 5 Year Warranty on ALL components

LEADSUN[®]
Off-Grid Intelligent Lighting Systems



All-In-One



Split



Powered by
Lithium-Ion
Batteries



Easy
Installation



Infrared Motion
Sensor



IP65



High Efficient
Controller



Battery Management
System



CREE LED
150lm/w



Plug &
Play Wiring

Our Models

Leadsun's AE6 'Ultron' series incorporates light-weight and powerful Lithium batteries conveniently located under the matching black colored bi-facial solar panel and aluminum frame. The 'All-In-One' solar engine easily attaches to the top of a round pole without need for any further external wiring.

The AE6 series is extremely versatile and suited for a wide-range of lighting and power applications providing outstanding performance and operational reliability. The All-In-One model uniquely incorporates an LED adjustable modules at one end of the solar engine that provides maximum installation flexibility and a Best-Fit solar lighting solution.

All-In-One (AIO) Model

- Sleek one-piece body
- No Wiring required
- Fast and easy installation



The AIO's sleek design integrates all components into one compact module for fast & easy installation. For optimal performance, it requires the solar panel to be orientated facing the midday sun whilst having the LED & Motion sensor modules aiming to the target area.

Split Model

- Optimal solar panel orientation
- Plug & Play wiring between solar engine and LED light head
- Directional lighting



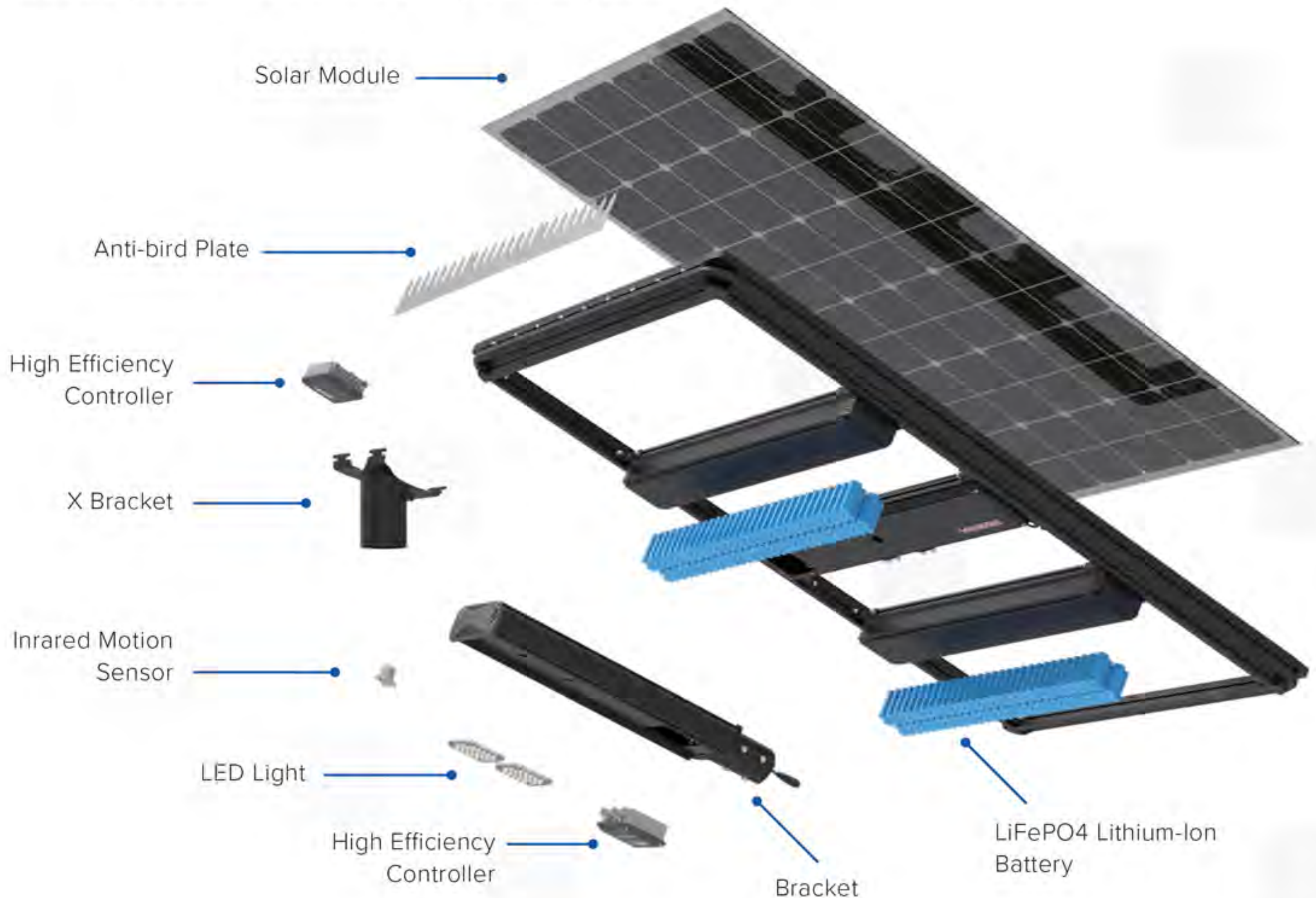
The SPLIT system allows optimal and uncompromised performance as the detached light head directs light exactly where it's needed, while the solar panel faces the afternoon sun. Plug & Play wiring supplied with the system is all that's required to easily install the system.

THE LEADSUN DIFFERENCE

Rock Solid Mechanical Structure

Ultra-Tough

Leadsun is the pioneer of All-In-One solar lighting technology and our AE6 series capitalises on 3rd-Generation advanced patented modular design technology that fully integrates a highly efficient Bi-Facial solar panel, powerful Lithium-ion LiFePO4 batteries and a smart power management system featuring intelligent adaptive lighting automation to control the powerful and fully adjustable LED modules. All this feature-packed technology is built-in to a sleek and easy to install system.



High Tensile Aluminium Frame Structure

Built Tough to withstand the harshest and most extreme environments the world has to offer; from blistering heat to driving rain, whatever the environment is the AE6 series rugged construction is up for the challenge. Its internal components offer IP65 weather protection and the external construction of our main frame now uses extra light weight aluminium alloy with stainless steel 316 grade fastening parts, all in a serviceable friendly body. Our build quality guarantees IP65 weather resistance and IK08 impact protection to all key components.



THE LEADSUN DIFFERENCE

Lithium-Ion Battery System

Ultra-Powerful



Leadsun uses new-generation Lithium LiFePO₄ batteries which offers 3 times more storage and power capacity versus conventional Lead Acid batteries. Our battery design uniquely features many 'small' lithium iron batteries packed into a 'dual' battery assembly that minimises stress and heat during both discharging and charging cycles ensuring long term reliability.

Lithium LiFePO₄ batteries are also able to discharge to an incredible 90% without any damage to them before the under voltage battery protection 'cuts out' any further operation. The batteries can also operate in temperatures from 0°C to -40°C and have an expected serviceable life in excess of 8 years!



Ultra-Efficient Battery Charging

Leadsun's in-house R&D team have developed a highly efficient Smart-Controller that continually regulates & adjusts the charging power in real-time to efficiently optimise charging in varying weather conditions.



THE LEADSUN DIFFERENCE

Programmable Smart Controller

Ultra-Intelligent

Leadsun's SMART Controller offers flexible accessibility, as the intelligent power adjustment function automatically modifies power discharge according to the remaining energy, allowing it to prolong the lighting time. This in turn provides a more effective method of lighting control, which minimises energy consumption providing greater battery autonomy and operational reliability.

With a sleek, modular design, the convenient 'plug and play' design of the SMART Controller is easy to replace, if ever required. With smart mode control and intelligent power adjustment, the power supply can be configured using a high precision DAC custom dimming profile, which can be fully customised to various levels depending upon the user's requirements.



Wireless Networking Option

LEADSUN's wireless networking option makes the outdoor light smarter with ease of control, monitoring and management remotely.

Modular plug & play design makes for easy maintenance or replacement

External USB programming port provides easy configuration for the working modes

Adaptive Intelligent Lighting Control

Featuring the 'Smart-Eye' PIR motion sensor, a new wave in adaptive intelligent lighting control, Leadsun uses the latest Panasonic passive-infrared motion sensor technology to detect movement within several feet of the unit. When the sensor is tripped, the unit automatically regulates the output of the LED lamp, shifting it from 'dim mode' to 'full-brightness' until the motion is no longer detected.

This smart feature not only preserves battery power, but is the cornerstone of the security system, enhancing visibility at night and allowing passive security within the area of the lights.



SMART EYE
MOTION SENSOR

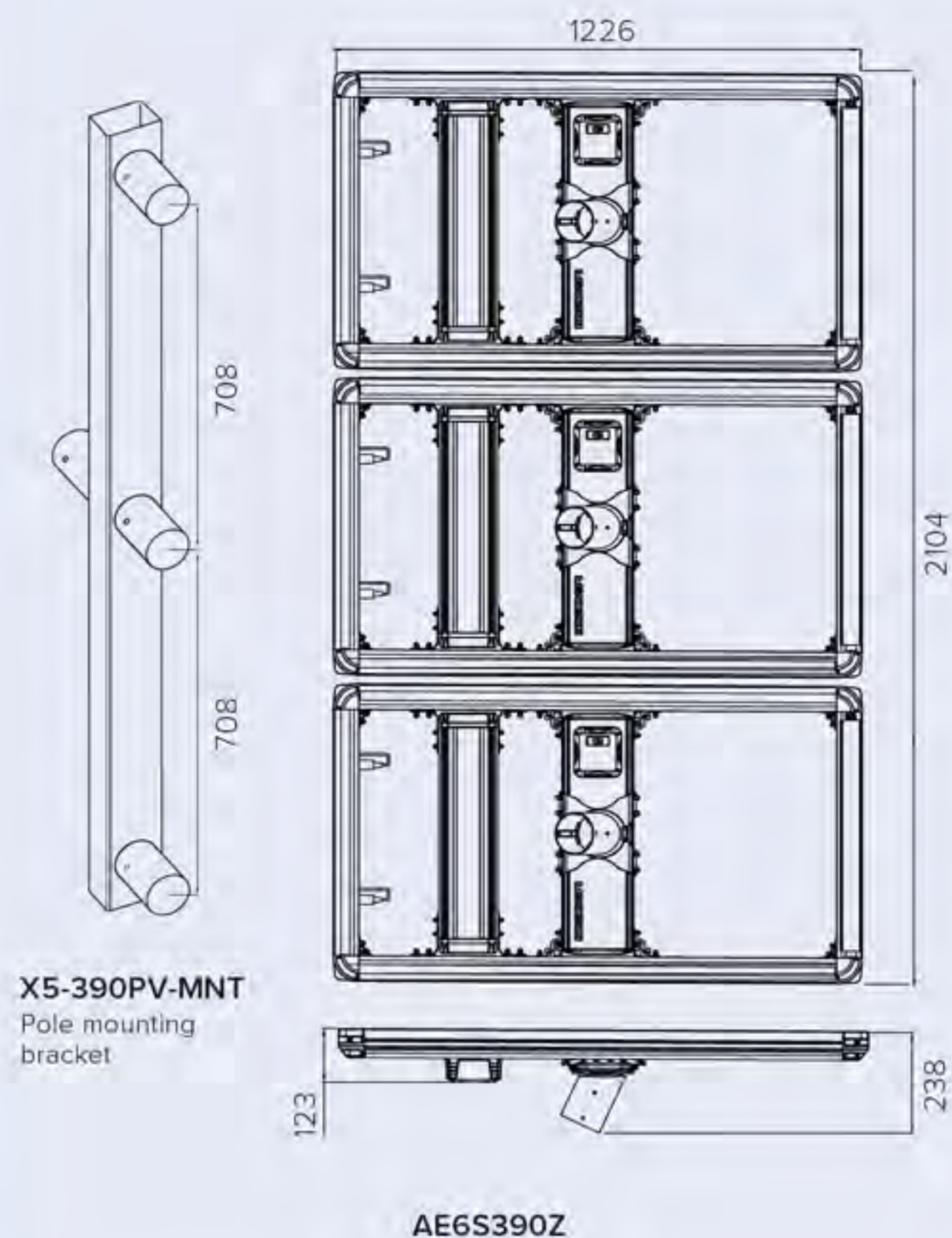
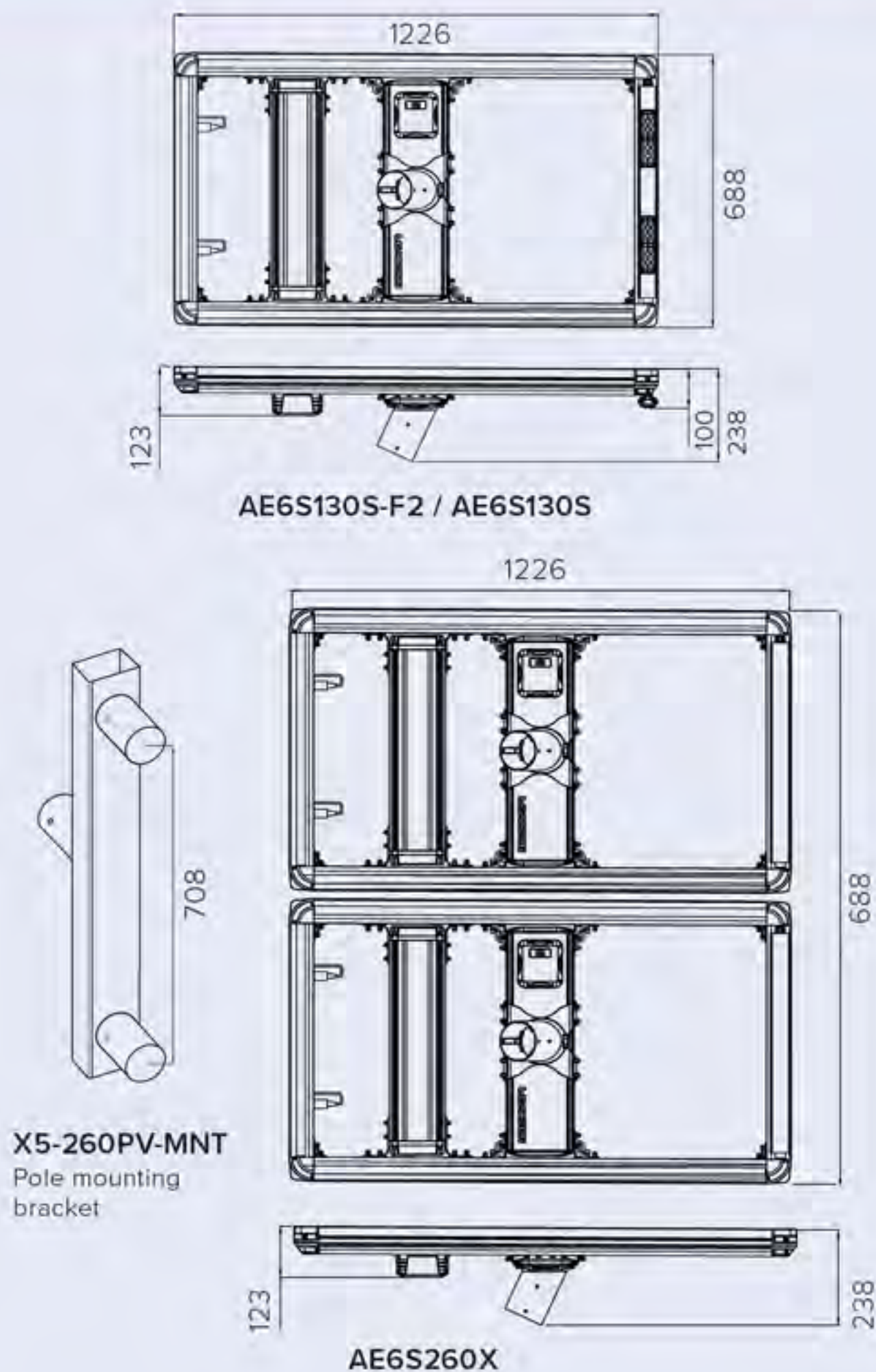


Powered by **Panasonic**

Solar Engine Technical Data

Model No.	All In One		Split Model	
	AE6S130S-F2	AE6S130S	AE6S260X	AE6S390Z
Physical Data				
Net Weight (kg)	38.2		37.2	75
Dimensions (mm)	1226(L) × 688(W) × 123(D)	1226(L) × 688(W) × 123(D)	1226(L) × 1396(W) × 123(D)	1226(L) × 2104(W) × 123(D)
System Data				
Power of PV Module (W)	130	130	260	390
Lithium Battery Capacity (12Vdc)	744wh(58Ah)	744wh(58Ah)	1489wh(116Ah)	2233wh(174Ah)
Smart Controller (✓: Standard)	✓	✓	✓	✓
Wireless Connectivity	Optional	Optional	Optional	Optional
Lighting Data				
PIR (✓: Standard)	✓	X	X	X
LED Chip	CREE XT-E	X	X	X
LED Output (W) Asymmetrical	30	X	X	X
Luminous Efficacy (150lm/W)	4500	X	X	X
Colour Temperature (K)	5000	X	X	X
Dusk/Dawn Transitioning Level (lx)	30	X	X	X
Standard Lighting Program On PIR (Note: programming can be customised)	5hrs at 50%–100% (30sec) (15W–30W) 4hrs at 15%–50% (30sec) (4.5W–15W) Remainder at 15%–100% (4.5W–30W)	X	X	X
Maximum Battery Working Time (h)	Full Brightness	X	X	X
	30% Dim Mode	X	X	X
Battery Management Data				
Charge Temperature (°C)	0–60	0–60	0–60	0–60
Discharge Temperature (°C)	-20–60	-20–60	-20–60	-20–60
Storage Temperature (°C)	-20–45	-20–45	-20–45	-20–45
Mounting Recommendations				
Wind Load Rate (kph)	130	130	130	130
Top of Pole or Tenon OD (mm)	60–90	60–90	60–90	60–90
Height of Pole (m)	4–6	N/A	N/A	N/A
Pole Spacing (m)	20–40	N/A	N/A	N/A

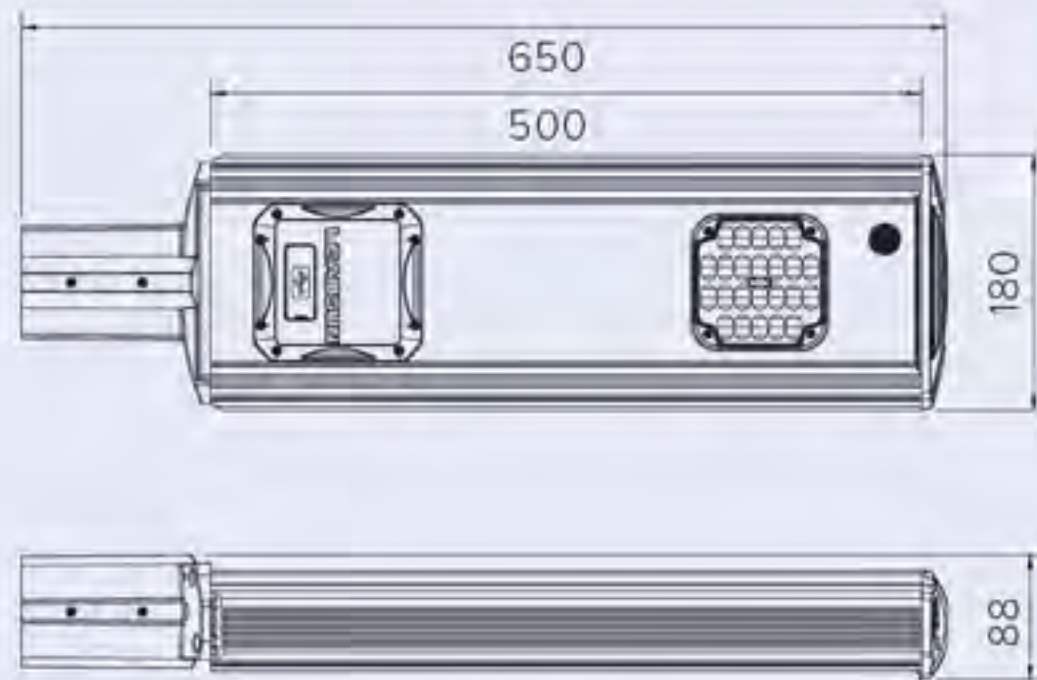
Solar Engine Physical Dimensions (mm)



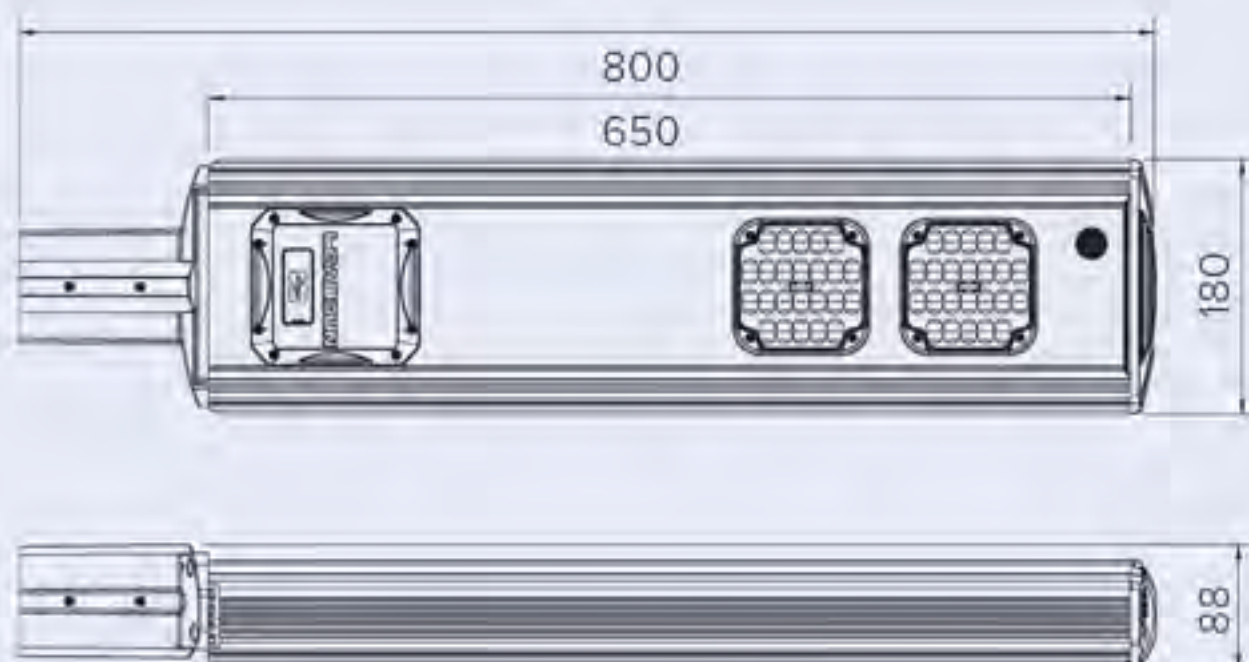
Lighthouse Technical Data

Model No.	ULTRON 12-F2	ULTRON 12-G2
Physical Data		
Net Weight of Product (kg)	4.5kg	5.5kg
Dimensions (mm)	650(L) x 180(W) x 88(D)mm	800(L) x 180(W) x 88(D)mm
Lighting Data		
PIR Sensor (✓: Standard)	✓	✓
LED Chip	CREE XT-E	CREE XT-E
LED Output (W) Asymmetrical	30	60
Luminous Efficacy	4500lm	9000lm
Color Temperature	5000K	5000K
Dusk/Dawn Transitioning Level (lx)	30	30
Standard Lighting Program On PIR (Note: programming can be customised)	5hrs at 50%–100% (30sec) (15W–30W) 4hrs at 15%–50% (30sec) (4.5W–15W) Remainder at 15%–100% (4.5W–30W)	5hrs at 50%–100% (30sec) (30W–60W) 4hrs at 15%–50% (30sec) (9W–30W) Remainder at 15%–100% (9W–60W)
Environmental Requirements		
Storage Temperature (°C)	-20–45	-20–45
Installation Suggestion		
Recommended Installation Height (m)	4–6	4–8
Recommended Pole Spacing (m)	20–40	20–40
Recommended Light Pole Diameter (mm)	60–90	60–90

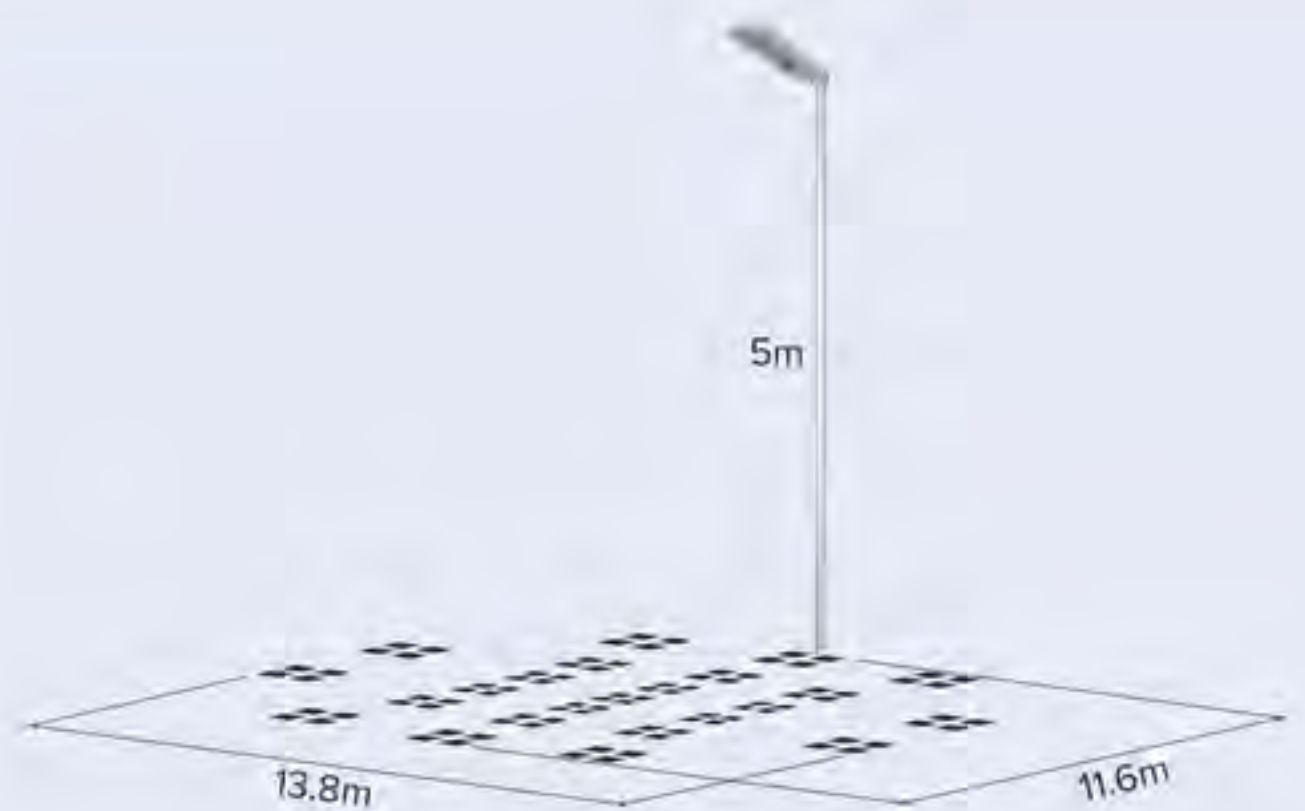
Dimensions (mm)



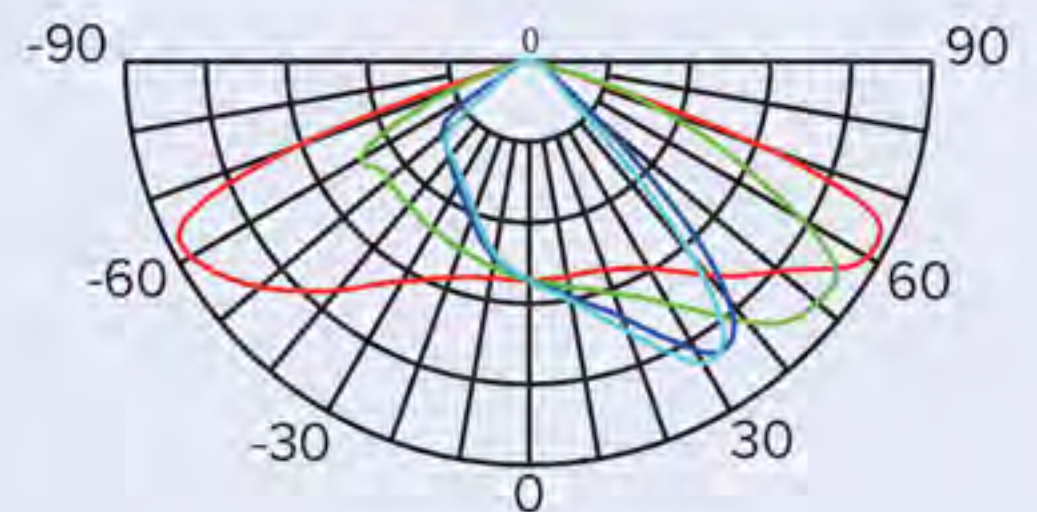
ULTRON 12-F2



ULTRON 12-G2



Infrared motion sensor detection area



Asymmetrical Lense

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