

**LEADSUN**

"The Leader In Solar Lighting Technology"



*LIVESUN 'All-In-One' Solar Powered LED Light*

**LIVESUN**



## LIGHTING THE WAY

# LIVESUN

Built specifically to illuminate a wide range of applications, LIVESUN is the world's most versatile and compact LED solar lighting system. Its clever design and slim-line construction incorporates the latest solar power technology, providing many years of outstanding performance and operational reliability. Our leading technology is what makes every Leadsun product unique. It's our constant focus on innovation and quality that makes Leadsun distinct from any other solar lighting company.



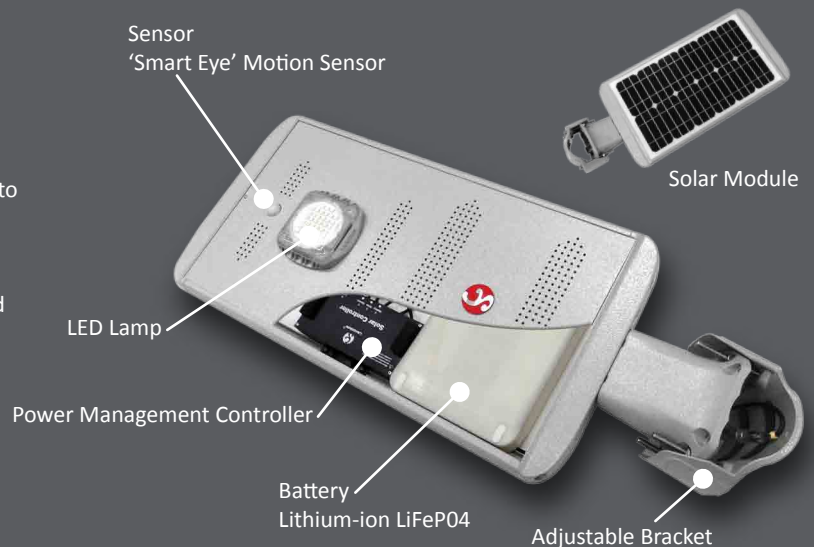
## BUILT TO LAST

Livesun has been designed to withstand the harshest and most extreme environments Australia has to offer – from blistering heat to driving rain, hail and sub-zero temperatures. Whatever the environment is, Leadsun's rugged construction is up for the challenge. Its internal components offer IP65 weather protection and its external components are built with marine grade aluminium and stainless steel fixings.

### The LEADSUN Advantage

Livesun uses LEADSUN'S advanced patented 'All-In-One' system that fully integrates a highly efficient solar panel, compact Lithium-ion LiFeP04 batteries and a smart power management system into a compact, easy to install product.

Importantly, the 'All-in-One' design eliminates the need for external wiring to remote battery packs and light heads meaning installation can be carried out without a specialist contractor.



## LED & LIGHT MANAGEMENT



Leadsun capitalises on the most technically advanced LED lighting technologies that work seamlessly and systematically with our latest LED driver and power management system.

Our newly designed LED lens features a variety of lighting distributions and power options ranging from 5W – 16W output. For instance, our symmetrical LED light head is perfectly suited for pedestrian pathway lighting applications as it minimises spill light in front and behind the light fitting.

## Technical Breakthrough



SMART EYE MOTION DETECTION  
Powered by Panasonic

The LIVESUN series has a built-in motion detection security feature that automatically regulates the LED light output from full brightness to a lower level depending upon the detection of movement around the light.

This fluctuation of lighting intensity preserves battery power and also serves to increase community security by deterring unsociable activity late at night and early in the morning where these lights are installed.

“Smart Eye” is a user-defined setting that can be configured to control the LED output in various modes.



## BATTERIES & CHARGING UNIT

LEADSUN uses new-generation, high quality Lithium-ion Life P04 batteries manufactured to exacting standards for high power applications and longevity. Key benefits include enhanced safety, strong thermal stability, tolerance to abuse, a high current rating and a 1500 cycle life (the highest available for this kind of battery). Lithium batteries are half the weight and size of lead acid and some other deep cycle batteries, take higher voltage under load and offering as much as 10 times the cycle life. Lithium batteries are also fully recyclable, making them the smart choice for our precious environment.

LEADSUN’s batteries are charged for maximum efficiency using our integrated charging circuit that constantly monitors the state of the batteries to optimise the charging levels while protecting them against overload, over-charge, over-discharge and accidental short circuit. The batteries can operate in temperatures from -20 degrees to +60 degrees Celsius.



## POWER MANAGEMENT



An important benefit of the LIVESUN ‘All-In-One’ solar light is its ability to preserve battery autonomy for maximum reliability even in overcast weather conditions.

The intelligent operating profiles that can be programmed into the system allows for a change in illumination levels throughout the night\*; with the addition of the ‘Smart-eye’ motion sensor, illumination levels will self regulate upon detection of movement throughout evening which further improves battery autonomy.

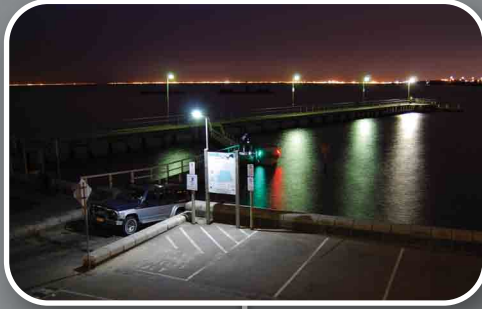
\* Example

	WORKING HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
LED Output	100%			50%			20%					
	Smarteye active						Smarteye inactive					

## Technical Breakthrough

LIVESUN’s intelligent Power Management System can be programmed to allow for customised operating profiles suiting many applications and creating total flexibility for the user.

Coastal



Carpark & Perimeter



Strata & Public Area Lighting

**Widespread Applications**  
LIVESUN is the worlds most versatile and compact lighting system



Security and Entrance Lighting



Construction Sites



Signage & Billboards



Rural & Remote Area Lighting



Temporary & Event Lighting

## OPTIONS

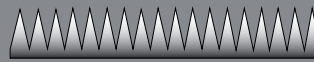
- EZYPOLE:** Leadsun offers the perfect solution for making the installation of our lighting system cost-effective and safer to carry-out without the need of any cranes or hoists to lift the poles. Our innovative poles are easy to install and can be lowered to ground level where the installation and maintenance of the lighting system can be easily and safely carried out.



Base plate lowerable pole

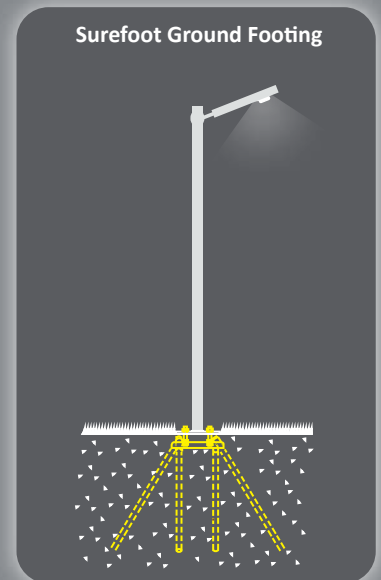


- BIRD SPIKE:** Is an accessory that can be easily attached to the entire LIVESUN range, there is an option of a semi transparent poly carbonate spike or laser cut aluminium with a powder coat finish. When installed, the bird spike prevents birds from perching on the top of the fitting and fouling on the solar panel which can decrease the solar efficiency of the system.

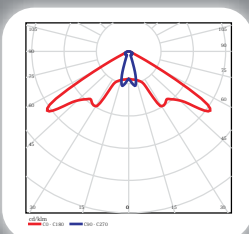


\*suits all panels

- SUREFOOT:** Provides a quick and environmentally friendly solution to install all of Leadsun's solar lighting products. Typical concrete footing systems need a few days curing time before the poles and lights can be installed. The Surefoot system now allows full installation of the lighting system in normally under 1.5 hours, it can handle large bending moment loads of up to 700Kgs and load capacities that exceed 8.5 tonne.

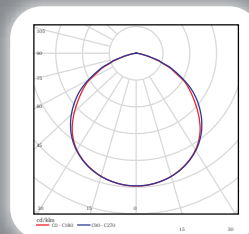


- LED DISTRIBUTION:**



1 – OSRAM

1 – OSRAM symmetrical beam (narrow radiation pattern that is designed to maximize efficiency)



2 – SAMSUNG

2 – SAMSUNG Round beam (extremely efficient SMD LED and provides an excellent colour reproduction)

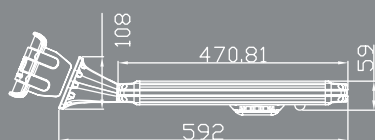
- SPLIT SYSTEM:** LEADSUN is now able to offer a compact split lighting system allowing further flexibility to the LIVESUN range. In applications where the solar panel is not able to be orientated with a northerly aspect, a compact LED light head can be separately installed to allow the light to be aimed in the correct area.

The multi-head system is available as a 18W, 25W or 36W solar engine with the choice of a 8, 10, 12, or 16W LED light head.

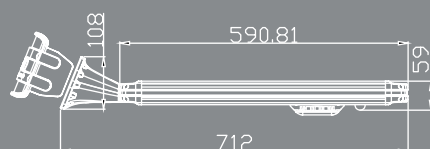


Model No.	AST1205	AST1208AC	AST1805	AST1808	AST1810	AST2505	AST2510	AST3612	AST3616	
<b>Physical Specification</b>										
LED, OSRAM OSOLON SSL 150	5W	8W	5W	8W	10W	5W	10W	12W	16W	
Monocrystalline Silicon PV Module	12W	12W	18W	18W	18W	25W	25W	36W	36W	
AC Input (240V)	Optional	Yes	Optional	Optional	N/A	Optional	Optional	Optional	Optional	
Net Weight	5.7 kg		6.6 kg		7.6 kg		9.5 kg			
I.P Weather Rating	IP 65									
<b>Light Output</b>										
Luminous Flux	Bright Mode	520lm	790lm	520lm	790lm	980lm	520lm	980lm	1080lm	1360lm
	Dim Mode	170lm	260lm	170lm	260lm	320lm	170lm	320lm	360lm	450lm
Working Time*	Bright Mode	≥ 8hrs	≥ 5hrs	≥ 12hrs	≥ 8hrs	≥ 10hrs	≥ 12hrs	≥ 8hrs	≥ 10hrs	≥ 8hrs
	Dim Mode	≥ 25hrs	≥ 15hrs	≥ 36hrs	≥ 24hrs	≥ 30hrs	≥ 36hrs	≥ 24hrs	≥ 30hrs	≥ 24hrs
<b>Battery &amp; Operating Time</b>										
Lithium LiFePO4 Battery Size (24.8V)	3.9Ah	3.9Ah	6.5Ah	6.5Ah	6.5Ah	6.5Ah	7.8Ah	13AH	15.6AH	
Working Temp.	Charging temp. °C				0°C~+60°C					
	Discharging temp. °C				-20°C~+60°C					
Overload / Over Charge Protection	Yes									
Storage Temperature	-20°C~+60°C									
<b>Light Pole</b>										
Total Height Range	2.5 - 3M	3 - 4M	3 - 4M	3 - 4M	3 - 4M	3 - 4M	3 - 5M	4 - 6M	4 - 6M	
Distance Between Lights	8 - 10M	10 - 15M	8 - 10M	10 - 15M	10 - 15M	8 - 10M	10 - 15M	15 - 20M	20 - 25M	

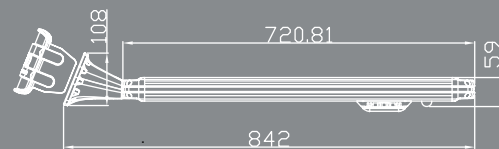
\* Working times may vary from state to state due to different weather conditions.



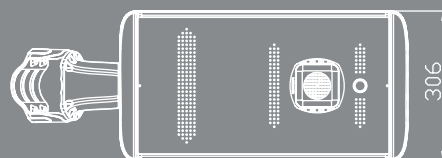
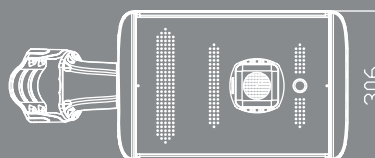
AST1205 / AST1208



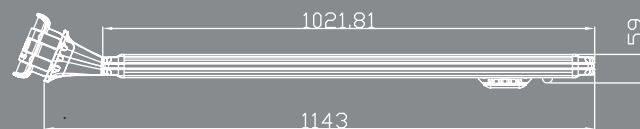
AST1805 / AST1808



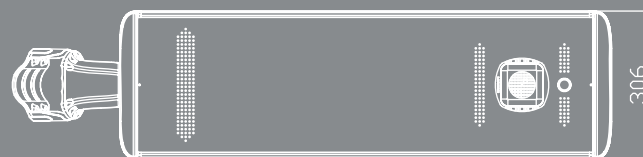
AST2505 / AST2510



LED Specification	SAMSUNG LED	OSRAM LED
Light Distribution	Round Beam	Bat Wing
Light Efficiency	100 lm/W	80 lm/W
CRI	80	70
Colour Temp	5000K - 6000K	
Light Photosensitivity (typ.)	30 Lux	



AST3612 / AST3616



### Lighting Column

#### Specifications

Thickness of light pole	≥2.5mm
Pole top dimension range	75 to 90mm
Pole height range	4 to 6m

### Distributed By

MR. Solar  
13A Embrey Court,  
Pakenham VIC 3810  
PO Box 679  
Pakenham, Vic, 3810

\*LEADSUN reserves the right to amend and improve the product appearance, construction and function without and prior notification.