



LEADSUN

EST. 2005

ALWAYS DEPENDABLE

DATASHEET

SMART Solar Lighting AE3 Series

Flexible installation
Sleek & modular design
10 + year battery performance

Leadsun's AE3 series is available in either a sleek looking All-In-One model, or a Split system with separate solar/battery module and LED light head with built-in PIR motion sensor.

The split unit is the world's first International Dark Sky approved solar lighting product. It's design guarantees perfect PV (photo-voltaic) solar orientation for optimum daytime charging and ensures layered LED light distribution without emitting any upward light pollution.

All-In-One Model

For north facing solar PV orientation



Split Model

Universal installation & Dark Sky Approved



Features

Options	All-In-One or Split
Design	Modular with Fully integrated components
Dark-sky Approval	Split model only
Solar Module	60W/90W Mono-crystalline
Installation	Plug & Play wiring
Pole	Double hot-dipped galvanised. Hinged easy lowering option
Battery	Dual LiFePO4 with patented battery management system
Control	EDGE wireless (Optional), Programmable, adaptive lighting with PIR dimming
Applications	Pathways, streets, small car parks



PIR MOTION SENSOR

All electronic components of the modular AE3 system are integrated in the 60W or 90W mono-crystalline solar modules. They also house the ingenious patented dual battery system that provides double the life compared to traditional solar lights batteries.

The programmable controller and smart-eye motion sensor provides responsive and autonomous dimming of the LED throughout the night delivering high quality illumination where and when you need it the most.

The system can be installed in no-time using our concrete-less footings and lowerable poles, creating a system you can set-and-forget.



Unlimited Warranty



Lithium-Ion Battery System



Monocrystalline Solar Module



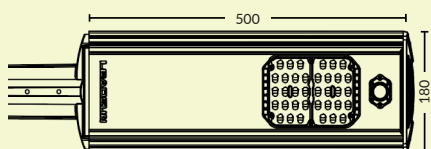
Advanced LED Lighting System



SMART Controller

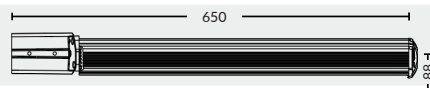
CE | IP65 | IK08

Luminaire LED Light Head (mm)



BOTTOM VIEW

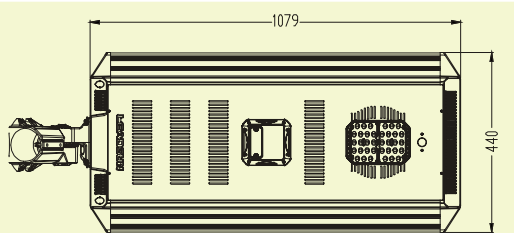
SIDE VIEW



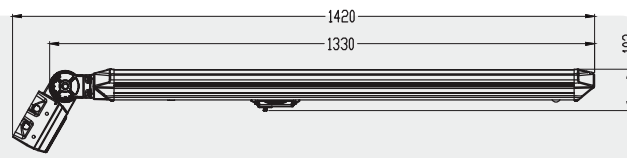
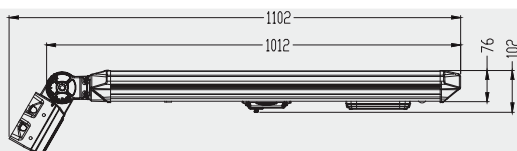
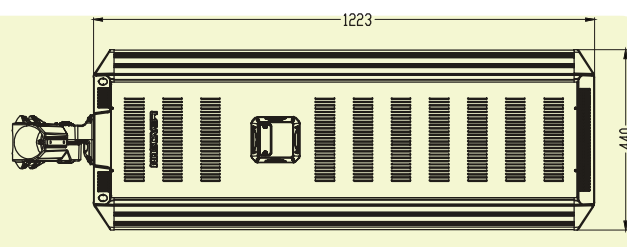
Model No.	L3SS10-20	L3SS30-20
Physical Parameters		
Net weight of product (kg)	3.8	3.8
Dimension of product (mm)	680(L) × 128(W) × 74(D)	680(L) × 128(W) × 74(D)
Pole mounting diameter (mm)	60 - 90	60 - 90
Technical & Operating Parameters		
Light output (W)	10	30
LED colour temperature (K)	3000	3000
LED typical luminous flux (lm)	1800	5400
Motion sensor type	Passive Infra Red	Passive Infra Red
LED distribution type	T2/T3	T2/T3

Solar Engine Module (mm)

AE3S60N (60W Solar Module)



AE3S90R (90W Solar Module)



Model No.	AE3S60N	AE3S90R
Physical Parameters		
Solar module power output (W)	60	90
Lithium battery capacity (Wh)	2 x 154Wh (308Wh)	2 x 308Wh (616Wh)
Net weight of product (kg)	15.3	19.6
Product dimension (mm)	1079(L) × 440(W) × 102(D)	1421(L) × 440(W) × 102(D)
Pole mounting diameter (mm)	55 - 76	55 - 76
System wind speed rating (kph)	178	178
Technical & Operating Parameters		
Battery voltage & cycle life	12.8Vdc/ >5000 cycles	12.8Vdc/ >5000 cycles
Battery charging temperature range	0°C - 60°C	0°C - 60°C
Battery discharging temperature range	-20°C - 60°C	-20°C - 60°C
Controller type	PWM (Programmable via USB)	PWM (Programmable via USB)
Wireless control & monitoring option	Optional	Optional
Photoelectric switch on/off level (lx)	30	30

Note: IDA certification requires 3000K CCT or lower and the fixture to be mounted at 90°

Datasheet AE3 Series 220729



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