

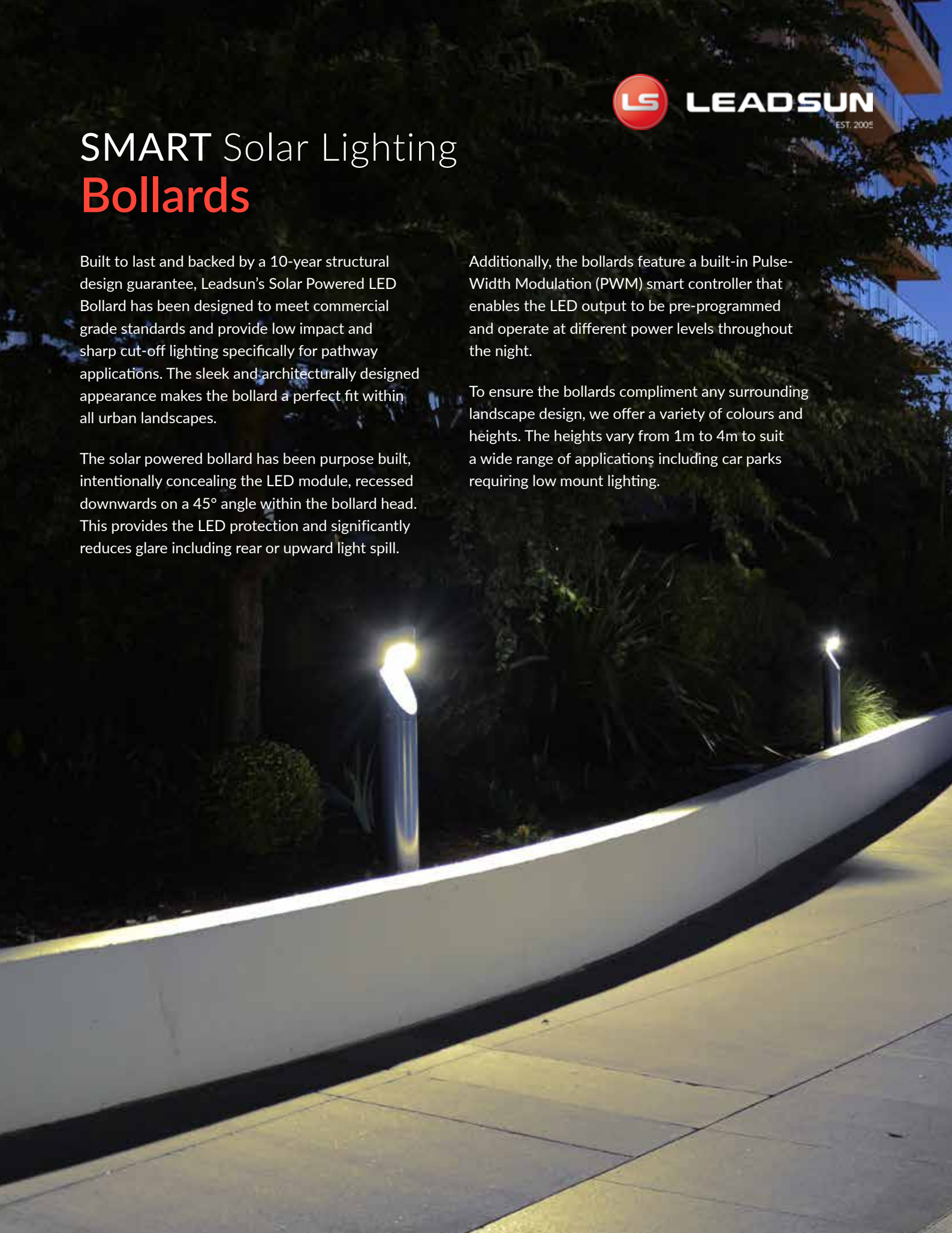
SMART Solar Lighting Bollards

Built to last and backed by a 10-year structural design guarantee, Leadsun's Solar Powered LED Bollard has been designed to meet commercial grade standards and provide low impact and sharp cut-off lighting specifically for pathway applications. The sleek and architecturally designed appearance makes the bollard a perfect fit within all urban landscapes.

The solar powered bollard has been purpose built, intentionally concealing the LED module, recessed downwards on a 45° angle within the bollard head. This provides the LED protection and significantly reduces glare including rear or upward light spill.

Additionally, the bollards feature a built-in Pulse-Width Modulation (PWM) smart controller that enables the LED output to be pre-programmed and operate at different power levels throughout the night.

To ensure the bollards compliment any surrounding landscape design, we offer a variety of colours and heights. The heights vary from 1m to 4m to suit a wide range of applications including car parks requiring low mount lighting.



Bollard

Leadsun's DC-powered bollards operate from grid-free, Leadsun Solar Engines (mains powered version also available). Up to 10 bollards can be easily powered via low voltage wiring installed in a shallow trench from either a Leadsun AE3 or AE6 series solar engine. The system is designed so that the solar engine is installed remotely (RESS) and in a position where it can receive the best direct sunlight as possible to ensure the bollards are reliably powered year round.



PHYSICAL PARAMETERS

Part No	BOLLARDX
Material	Zinc plated mild steel (optional Stainless steel)
Colours	Black
Diameter	135mm
Heights	1m (custom heights available on request)
Weight	10kg
Warranty	5 years
Product Finish	Powder coated black (optional stainless steel)

FOOTING OPTIONS

TP1	In-ground sleeve footing 500mm deep
TP2	Surface mount baseplate bolts (max height 1.2m)

POWER

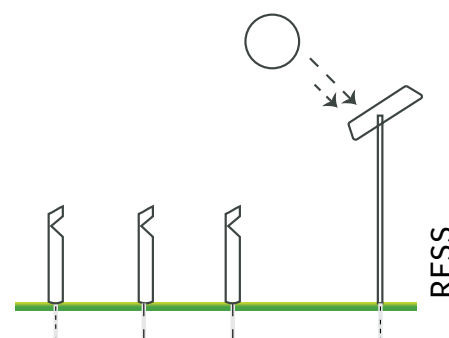
DC Voltage	12V
LED Operational (W)	1.5
Bollards Per RESS (Remote Energy Storage System)	10 max

LIGHTING

Light Output	270Lm
LED Type	Asymmetrical distribution
LED Colour Temperature	3000K

Remote Energy Storage System (RESS)

RESS is a solar powered lighting solution that allows the remote placement of the Solar Engine away from the LED luminaire(s) which could be either pole, underpass or shelter mounted LED luminaire(s) or LED bollard(s). As the Solar Engine outputs safe 'Extra Low Voltage' DC, it means only shallow trenching is required to run the cabling to each LED luminaire with minimal impact to existing ground conditions. This solution is often employed to solve issues with heavily shaded areas and can reliably provide continuous power to each luminaire over distances of 100 metres and beyond.

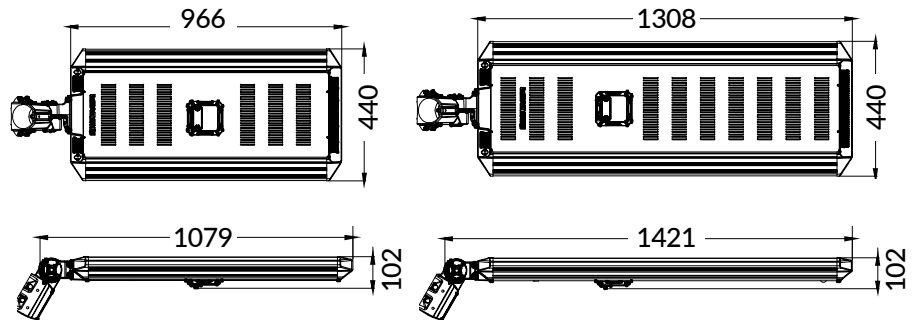


AE3 Series

CE | IP66 | IK08

Split Model

Universal installation



Model No.	AE3S60N	AE360Q	AE3S90R
PHYSICAL PARAMETERS			
Solar module power output (W)	60	60	90
Lithium battery capacity (Wh)	308	512	616
Net weight of product (kg)	15.7	17.5	19.6
Product dimension (mm)	1079(L) × 440(W) × 102(D)	1079(L) × 440(W) × 102(D)	1421(L) × 440(W) × 102(D)
Pole mounting diameter (mm)	76	76	76
System wind speed rating (km/h)	257	257	209
TECHNICAL & OPERATING PARAMETERS			
Battery voltage & cycle life	12.8Vdc/ >4000 cycles		
Battery charging temperature range	0°C–51°C		
Battery discharging temperature range	-20°C–60°C		
Controller type	PWM (Programmable via USB)		
Photoelectric switch on/off level (lx)	30		

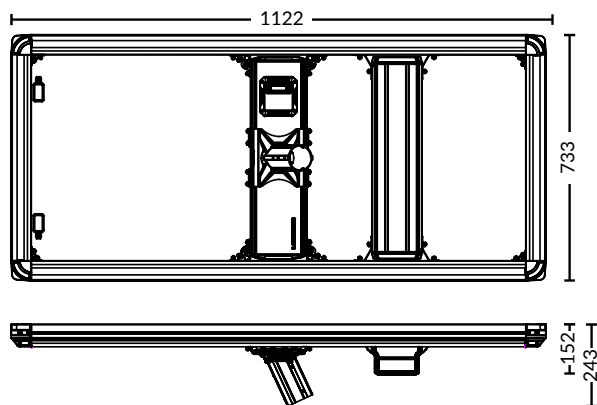


AE6 Series

CE | IP66 | IK08

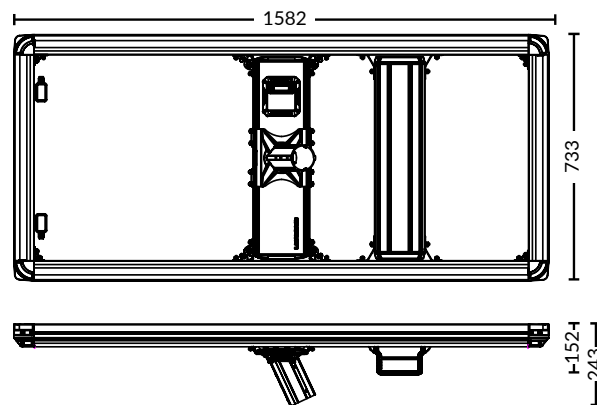
AE6S150T

Used to configure the AE6S300X



AE6S200V

Used to configure the AE6S400Y & AE6S600Z



Model No.	AE6S150T	AE6S300X	AE6S200V	AE6S400Y	AE6S600Z
Configuration					

PHYSICAL PARAMETERS					
Solar module power output (W)	150	300	200	400	600
Lithium battery capacity (Wh)	820	1640	1229	2458	3687
Net weight of product (kg)	26	61	38	85	129
Product dimension (mm) LxWxD	1122×733×152	1122×1496×152	1582×733×152	1582×1496×152	1582×2259×152
Pole mounting diameter (mm)	89	89	89	89	89
System wind speed rating (km/h)	257	186	257	186	186

TECHNICAL & OPERATING PARAMETERS	
Battery voltage & cycle life	12.8Vdc / >4000 cycles
Battery charging temperature	Between 0°C~51°C
Battery discharging temperature	Between -20°C~60°C
Controller type	PWM (Programmable via USB)
Photoelectric switch on/off level (lx)	30

