



Solar Engine

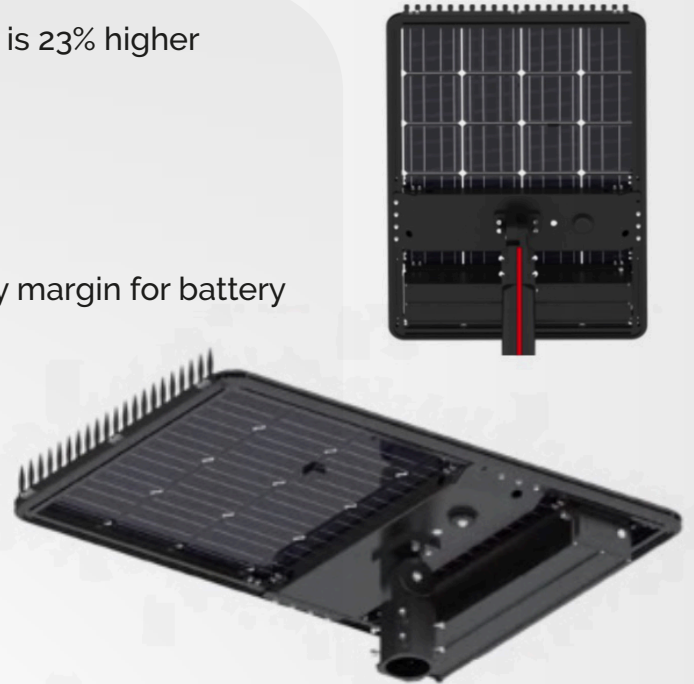
SPECIFICATIONS

Off-grid solar-powered engine for use with LED bollards.

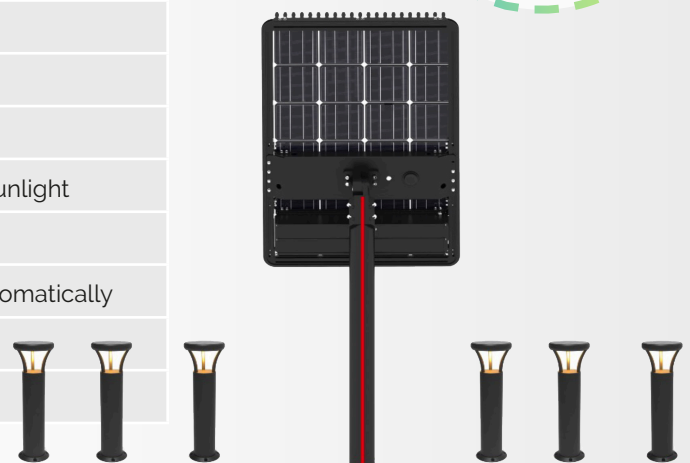
Large battery capacity to maximise autonomy.

Programmable power output to maximise output and autonomy for specific locations and applications.

- > Bifacial solar panel light absorption efficiency is 23% higher than monofacial solar panel
- > External battery can be replaced if required
- > Lithium Ion 18650 - More than 2000 cycles
- > Low capacity protection, minimum 20% safety margin for battery
- > MPPT controller and BIM included
- > IP Rating: Battery IP66 & Controller IP68
- > Aluminum + stainless fixing (anti-rust)
- > Working Temperature: -20°C-65°C
- > ASW3.0 energy saving technology
- > The PTC auto-heat system can make the light operate normally even when the temperature goes down -40°C (suitable for cold areas)



Specification	Solar Engine
Solar panel	Bifacial 160W
IK Rating	IK 08
Battery Rating (AH)	135.2 AH
Battery Capacity	12V/ 135.2AH Li-ion
Charging Time	10 Hours
Discharge Duration	10 days autonomy without sunlight
Controller Type	MPPT&BIM included
Photovoltaic sensor	Work from dusk to dawn automatically
Working Temperature	-20°C-65°C
Dimensions	L1060*W820*H200mm





LED Bollard Light

SPECIFICATIONS

Our LED Bollard, when used with our Solar Engine, is the perfect solution for providing light to areas where there is no/little direct sunlight.

Patented design combined with rugged, high-brightness LEDs make it ideal for all your individual lighting projects.

- > LED Power 3W 540lm
- > Polycarbonate Lens - no glass
- > Operation Mode: Dusk to dawn
- > Life Span > 50,000 Hours
- > CCT: 3,000K/4000K/5,000K/6,000K, Amber color available)
- > LED chips: OSRAM LED
- > IP65 Rating
- > Easy for Installation
- > Hidden Cover for CCT&Switch Button
- > M8*3pcs plum anti-theft screws & M10*4 bolts
- > Powder -Coated Die Cast Aluminium (Anti UV Coating)



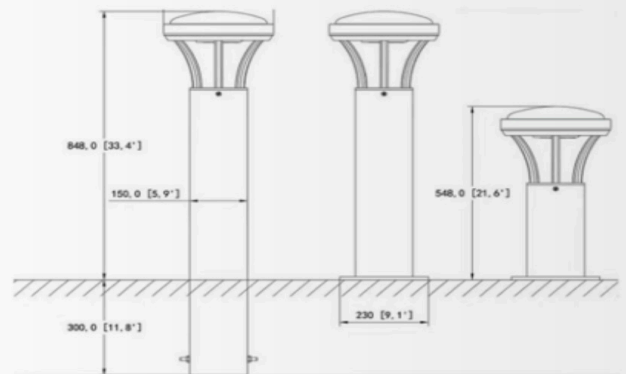
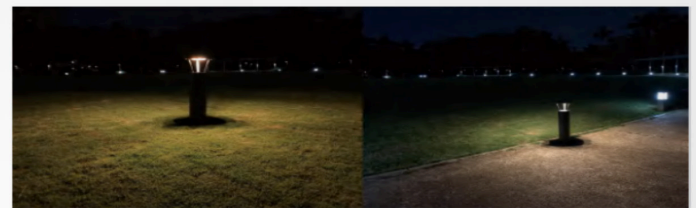
RECTANGULAR LENS

Side Illumination
Type IMI



ROUND LENS

Circle Illumination
Type V



Specification	LED Bollard Light
Power	3W
Lumen	540
Dimension (mm)	5401mm
Light Efficacy	180lm/w
LED chips	Osram
Beam Angle	Type III/Type V (Optional)
Color Temperature	2700k/5000K (other colours available)
Height	60cm/90cm/120cm height available
Mounting Base	Ground/buried

Note: The quantity of LED Bollard light can be selected according to the actual demand of the project.

Connecting Cables

Each cable has waterproof connectors to connect each LED in series (Max 80M). Connection cables can be customised according to the actual size of the project, please contact us for more information. The default stocked version is as detailed below (1 engine drives 6 Bollard lights)

