

Datasheet

LEADSUN
Limitless Light. Beyond the Grid.

GRID-FREE LED BOLLARD

Bollard

Architectural pathway lighting powered by remote solar energy

The Leadsun RESS Bollard is engineered for commercial-grade pathway and pedestrian environments where conventional utility-powered lighting is impractical, expensive, or visually intrusive.

Powered by a single Leadsun Solar Engine, up to 10 bollards per engine, and connected via shallow low-voltage cabling, it delivers sharp cut-off illumination in an architectural form built to survive real-world conditions.



Grid-Free Power

Driven by remote AE3/AE6 Solar Engine



Vandal-Resistant Build

IP65 + IK10 electroplated steel



Programmable Output

PWM smart controller, dawn-to-dawn

275 lm

LIGHT
OUTPUT

Up to 10

BOLLARDS
PER ENGINE

IP65

WEATHER
RATED

IK10

IMPACT
RATED

Compatible with AE3 & AE6 Solar Engines



How it Works

A single Leadsun Solar Engine powers up to 10 bollards through low-voltage shallow-trench cabling. Remotely locating the engine for optimal sun exposure allows the bollards to maintain a clean, low-profile architectural appearance.



STEP 1 · CAPTURE

Solar Energy In

Engine sited for optimal sun. LiFePO₄ battery stores energy for dawn-to-dawn operation.

STEP 2 · DISTRIBUTE

Low-Voltage Distribution

12VDC shallow-trench cable powers up to 10 bollards from one engine. No grid. No conduit.

STEP 3 · ILLUMINATE

Programmable Output

PWM smart controller adjusts intensity through the night for predictable, glare-free pathway light.

Bollard

Powered by Leadsun Solar Engine
Grid-Free LED Bollard

Core Advantages

- **Grid-Free Operation:** Powered entirely by a remote Leadsun Solar Engine with no utility trenching, service connection, or monthly energy costs
- **Vandal-Resistant Build:** Electroplated steel construction, recessed LED module, IK10 impact rating for high-traffic public environments.
- **Shallow-Trench Cabling:** Low-voltage 12VDC eliminates deep excavation, conduit runs, and licensed-electrician requirements.
- **Sharp Cut-Off Optics:** Recessed LED with asymmetric distribution minimizes glare, rear spill, and upward light pollution.

Specifications

MECHANICAL

Part Number	BOLLARD1-B2
Material	Electroplated Steel
Finish	Black Architectural Finish
Diameter	5.75 in
Height	37.5 in.
Weight	22 lbs.
IP Rating	IP65
IK Rating	IK10
Warranty	7 Years

Applications: Pathways, Pedestrian Areas and Sidewalks

LIGHTING

Light Output	275 lm
Distribution	Asymmetric Distribution
Smart Control	Programmable PWM Dimming
CCT	3000 K

ELECTRICAL · RESS LOW-VOLTAGE

Rated Power	1.2 W
DC Voltage	12 VDC
Working Temperature	-31°F to 158°F

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