

Datasheet

LEADSUN
Limitless Light. Beyond the Grid.

SPLIT-CONFIGURATION SOLAR STREET LIGHT

AE1 All-in-Two

Split-configuration solar street lighting
for precise light placement and optimal
sun capture.

The Leadsun AE1 All-in-Two separates the solar module from the LED luminaire, letting installers optimize solar orientation while positioning the light exactly where it's needed.

This split design improves performance in shaded or challenging locations while maintaining a clean, professional installation.



Long-Life Battery

High-cycle LiFePO₄ battery



Bi-Facial Solar

Boosting energy generation by 10–15%



Premium LEDs

Precision optics with multiple light distributions

7200 lm

LUMINOUS
FLUX

IP66

WEATHER
RATED

180 lm/W

LED
EFFICACY

16-26 ft

POLE
HEIGHTS

AE1 All-in-Two

Split-Configuration Solar Street Light

Why Split-Configuration

The AE1 All-in-Two separates the solar module from the LED luminaire. The panel mounts where the sun is best; the light mounts where it's needed. That independence lets a crew chase optimal sun angle on the panel while aiming the luminaire for the right throw on the ground.

The result is stronger performance in shaded, obstructed, or challenging sites, without compromising the clean, professional look of the install. PIR adaptive output and high-cycle LiFePO₄ storage run the system dawn-to-dawn with no grid connection and no maintenance trips.

STEP 1 · POSITION

Independent Solar Aim

Mount the panel for peak sun exposure, separate from the luminaire.

STEP 2 · PLACE

Light Where It's Needed

Aim the LED luminaire for precise throw, ideal for shaded or obstructed sites.

STEP 3 · ILLUMINATE

Adaptive All Night

PIR output and LiFePO₄ storage deliver dawn-to-dawn light with no grid.

Core Advantages

- **Split-Configuration Flexibility:** Separate solar and luminaire placement for optimal sun capture and precise light delivery.
- **Built to Last Outdoors:** IP66 waterproof and municipality-grade corrosion-resistant materials.
- **Adaptive Efficiency:** PIR motion sensing and bi-facial solar maximize runtime and reduce wasted output.
- **Scalable Configuration:** Supports 60–100W solar and 10–40W LED engines across 16–26 ft install heights.

Specifications

MECHANICAL

Model Number	X4S100P-SL40
Net Weight	42 lbs
Dimensions	43 × 22 × 12 in
IP Rating	IP66

ELECTRICAL / SOLAR + BATTERY

PV Module Power	100 W
Lithium Battery Capacity	410 Wh

MOUNTING

Top of Pole / Tenon OD	Fits standard 2 3/8" OD
Installation Height	16–26 ft
Installation Distance	50–115 ft

LIGHTING

Light Output	40 W
Typical Luminous Flux	7200 lm (IES tested)
LED Efficacy	Up to 180 lm/W
Color Temperature	3000/4000/5000 K
Optical Distribution	Type II / Type III
BUG Rating	B2-U1-G2
Sensor Options	PIR Motion Sensor

Applications: Sites requiring precise light placement - streetscapes, parking lots, campuses, and pathways.

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