

HIGH-OUTPUT INTEGRATED SOLAR STREET LIGHT

AE6 All-in-One

High-output integrated solar street lighting **built for demanding, large-area applications.**

The Leadsun AE6 All-in-one integrates large-format monocrystalline solar modules, high-capacity 820–1,229 Wh batteries, advanced optics, and a 40–80W LED engine into one streamlined housing.

Built for demanding applications where power, durability, and continuous performance matter, roads, industrial parks, large lots, and campus corridors.



Extended Battery

820–1229 Wh LiFePO₄ battery



High-Output Solar

150–200W solar engine



Powerful 40–80W LED

Light for roads and large-area lighting



Up to
190 lm/W

LED
EFFICACY

IP66

WEATHER
RATED

1229 Wh

MAX
BATTERY

150 mph

WIND
RATED

AE6 All-in-One

High-Output Integrated Solar Street Light

Why All-in-One

The AE6 combines large-format solar, high-capacity battery, controller, and a high-output LED engine into one sealed housing. There are no external panels to align, no separate battery boxes, and no inter-unit wiring. A crew mounts the unit to the pole, sets orientation, and moves on.

That single-housing approach delivers serious output without the complexity, reinforced framing rated to 150 mph, a 3-5 day battery backup for continuous performance through cloudy weather, and PIR or DISS adaptive sensing. High-capacity LiFePO₄ storage runs the system dawn-to-dawn with no grid and no maintenance trips.

STEP 1 · INTEGRATE

High-Output Housing

Solar, battery, controller, and 40–80W LED in one sealed unit.

STEP 2 · DEPLOY

Storm-Rated Mount

Fits 3.5" tenons on poles or outreach arms. Rated to 150 mph.

STEP 3 · ILLUMINATE

Adaptive, 3-Day Backup

PIR/DISS sensing and LiFePO₄ storage run dawn-to-dawn through cloudy weather.

Core Advantages

- **High-Output Integration:** Large-format solar, high-capacity battery, and a 40–80W LED engine in one streamlined housing.
- **Built for Storm Zones:** IP66 waterproof, IK08 impact rated, reinforced frame rated to 150 mph wind load.
- **Continuous Performance:** 3-5 days battery backup and programmable 30%–100% output hold light through cloudy stretches.
- **Pole-Flexible:** Compatible with standard round poles and outreach arms; PIR or optional DISS motion sensing.

Specifications

MECHANICAL	AE5S150V12 B64L40	AE5S200V12 B96L60	AE5S200V12 B96L80
PV Module Power	150 W	200 W	300 W
Battery Capacity	820 Wh	1229 Wh	1229 Wh
Net Weight	54 lbs	65 lbs	97 lbs
Dimensions (in.)	44 × 29 × 6	62 × 29 × 6	62 × 43 × 6
MOUNTING	AE5S150V12B64L40 AE5S200V12B96L60		
Tenon OD	– Fits standard 3.5" OD tenons –		
Wind Load Rate	– 150 mph –		
Installation HT.	18–24 ft (T5)	25–35 ft	235–45 ft
Installation Dist.	60–85 ft (T5)	100–160 ft	150–215 ft

Applications: Roads, residential areas, industrial parks, large parking lots, and campus roads.

LIGHTING	AE5S150V12 B64L40	AE5S200V12 B96L60	AE5S200V12 B96L80
Light Output	30 W	60 W	80 W
Luminous Flux	7235 lm	11400 lm	115200 lm
LED Efficacy	– Up to 190 lm/W –		
Color Temperature	– 3000/4000/5000 K –		
Optical Distribution	– Type II Medium / Type V –		
BUG Rating	– B2-U1-G2 / B3-U2-G3 –		
Sensor Options	– PIR Motion Sensor / DISS Sensor –		
IP Rating	– IP66 –		
Sensor Options	– PIR Motion Sensor / DISS–		
Battery Backup	– 3-5 Days –		

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Datasheet AE6 AllInOne v 05202026