

Datasheet

LEADSUN
Limitless Light. Beyond the Grid.

SPLIT HIGH-PERFORMANCE SOLAR LIGHT

AE6 All-in-Two



Split high-performance solar lighting for **maximum charging and precise photometric placement.**

The Leadsun AE6 Split Model separates the solar engine from the LED luminaire, letting each be positioned independently for maximum charging efficiency and precise photometric placement.

Ideal for locations with variable shading, off-axis solar orientation, or installations requiring an outreach arm.



Long-Life Battery

820–1640 Wh LiFePO₄ battery



Modular Solar

150–300W solar module options



Independent LED

IES T2-S, T2-L, T3 distributions

Up to
190 lm/W

LED
EFFICACY

IP66

WEATHER
RATED

15200 lm

MAX
FLUX

150 mph

WIND
RATED



AE6 All-in-Two

Split High-Performance Solar Light

Why Split-Configuration

The AE6 All-in-two separates the high-output solar engine from the LED luminaire. The engine mounts where the sun is best; the light head mounts where it's needed. That independence lets a crew chase peak charging on the panel while aiming the luminaire for precise photometric placement on the ground.

The result is reliable high-output performance in shaded, off-axis, or outreach-arm installations, without compromising the install. Reinforced framing rated to 150 mph, a 3-day battery backup, and PIR or DISS sensing keep the system running dawn-to-dawn with no grid and no maintenance trips.

STEP 1 · POSITION

Independent Solar Aim

Angle the solar engine for peak charging, separate from the luminaire.

STEP 2 · PLACE

Precise Photometrics

Mount any RS head where light is needed, ideal for shading, off-axis sun, or outreach arms.

STEP 3 · ILLUMINATE

Adaptive, 3-Day Backup

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

Core Advantages

- **Split-Configuration Flexibility:** Separate solar engine and luminaire placement for maximum charging and precise light delivery.
- **Built for Storm Zones:** IP66 waterproof, IK08 impact rated, reinforced frame rated to 150 mph.
- **High-Output Modular Platform:** 150–300W solar pairs with five RS luminaire heads for broad-area coverage.
- **Pole-Flexible:** Compatible with standard round poles and outreach arms; PIR or optional DISS sensing.

Specifications

MECHANICAL	AE6S150 V12B64		AE6S200 V12B96		AE6S300 V12B128
PV Module Power	150 W		200 W		300 W
Battery Capacity	820 Wh		1229 Wh		1640 Wh
Net Weight	54 lbs		65 lbs		102 lbs
Dimensions (in.)	44 × 29 × 6		62 × 29 × 6		60 × 43 × 6
MOUNTING	RS30	RS40	RS50	RS60	RS80
Tenon OD	– Fits standard 3.5" OD tenons –				
Wind Load Rate	– 150 mph –				
Installation HT.	20–26 ft	20–30 ft	25–35 ft	25–35 ft	35–44 ft
Installation Dist.	65–100 ft	80–115 ft	90–140 ft	90–140 ft	150–215 ft

Applications: Roads, main streets, pathways, industrial sites, and broader-area lighting with complex solar conditions.

LIGHTING	RS30	RS40	RS50	RS60	RS80
Light Output	30 W	40 W	50 W	60 W	80 W
Luminous Flux	5700 lm	7600 lm	9500 lm	11400 lm	15200 lm
LED Efficacy	– Up to 190 lm/W –				
Color Temperature	– 3000/4000/5000 K –				
Optical Distribution	– Type II / Type III / Type V / Type II Long / Type II Wide –				
BUG Rating	–B2-U1-G2 / B3-U2-G3 –				
Sensor Options	– PIR Motion Sensor / DISS Sensor –				
IP Rating	– IP66 –				
Sensor Options	– Programmable (default 30%–100%)–				
Battery Backup	– 3-5 Days –				

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