E-AblePower Technology

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E-ABLE POWER / SOLAR LIGHTING

Installation & commissioning

All-in-one solar street lights

SunMyth GH / LKH series · OrbitRay LKAS series · manual for the installing contractor

SCOPE 01

Series	Models	Pole clamp	Installation height
SunMyth GH / LKH	GH-30W · GH-40W · LKH-60W · LKH-80W · LKH-100W · LKH-120W	Ø80–92 mm	5–16 m
OrbitRay LKAS	LKAS-30W · 40W · 60W · 80W · 100W · 120W · 150W	Ø60 / 76 mm	5–16 m

BEFORE YOU START

- Read this manual and the datasheet of the ordered model before unpacking.
- Installation, adjustment and maintenance are carried out by trained or authorised personnel only.
- Set the light source direction from the road body, so the maximum illuminated area falls on the carriageway.
- The panel must face the sun path with no shade from buildings, trees or the pole at any hour.
- Keep the luminaire away from heat sources; do not install the light source above the solar cells.
- Protect the luminaire from vibration in transport and handling, and mount it on a rigid, non-vibrating support.

TOOLS

- Hex key for the M8 socket bolts
- Spirit level
- Torque wrench (value per the pole supplier)
- Ladder or platform, safety harness

MOUNTING SEQUENCE

1. Unpack and check the packing list against the order acknowledgement.
2. Switch on the waterproof switch inside the luminaire before lifting it to the pole.
3. Offer the luminaire to the pole and engage the clamp; the adaptor seats on the pole without forcing.
4. Fit the M8 × 25 socket bolts with spring washer and gasket, and tighten evenly so the gasket is compressed without distortion.
5. Set the panel tilt between 0° and 15°, then re-check the bolts.
6. Check the sun path at 09:00, 12:00 and 15:00, and leave the luminaire on charge for the first day.

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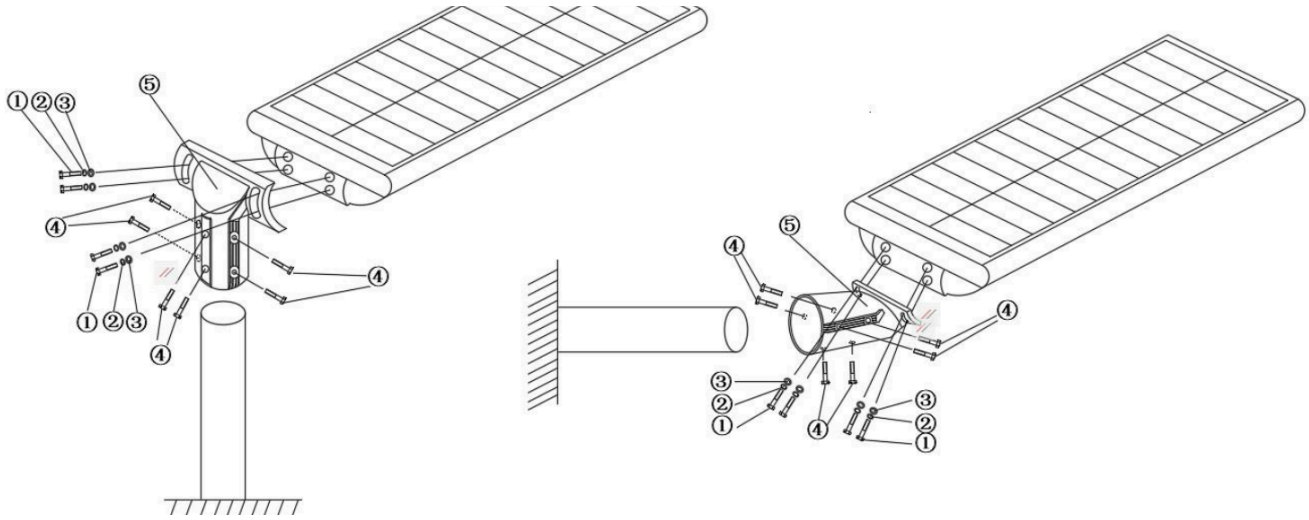
SITE CONDITIONS

02

- The pole and its foundation are supplied by others. The pole must be plumb, stable and rated for the luminaire plus the wind load of the site.
- Mounting height per model is given in the datasheet; it sets the pole class and the spacing between units.
- Panel tilt between 0° and 15°, set for the latitude of the site. Steep tilt improves winter yield but increases wind load.
- Install on a dry day. A luminaire installed in rain cannot recover charge before its first night.
- After storage longer than 6 months, recharge in sunlight or through the charging port before installation.

PACKING LIST

- Luminaire with integrated panel, battery and controller — 1 pc
- Pole adaptor or clamp set for the ordered diameter — 1 set
- M8 × 25 socket bolts, spring washers and gaskets — 1 set
- Remote control and this manual — hand over to the operator



Left: top mount on a vertical pole. Right: side entry through a pole arm.
① M8 × 25 hexagon socket bolt ② M8 spring washer ③ M8 gasket ④ M8 × 25 bolt ⑤ connector

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COMMISSIONING

03

- Waterproof switch is on and the connector is fully seated.
- Clamp bolts tight, gasket compressed evenly, luminaire cannot rotate by hand.
- Panel free of shade at 09:00, 12:00 and 15:00 on the day of installation.
- Battery voltage above the controller cut-in level before the first night.
- Night test: light on at dusk, full output on approach, dimming after 15 s.
- Model, serial number and commissioning date recorded for the warranty file.

REMOTE CONTROL

A / 1	**6 h 100/30 · 4 h 80/20 · 2 h 100/30**
B / 2	**1 h 80 · 2 h 100 · 1 h 70 · 8 h 30**
C / 3	**1 h 80/80 · 3 h 100/100 · 2 h 70/30 · 4 h 50/10 · 2 h 70/20**

Two figures per period: output with motion detection / output without motion. Single figures are fixed output. One key switches the luminaire on and off; the mode keys write a preset night schedule to the controller. SunMyth labels the same three schedules 1 / 2 / 3 on the controller, plus a custom schedule 4.

TROUBLESHOOTING

Symptom	Check
No light at dusk	Waterproof switch off, connector loose, or battery below cut-in after a first day without charge.
Light stays at reduced output	The active mode is a dimmed schedule, or the battery is low after several overcast days.
Short nightly run time	Panel soiled or shaded, or the battery is at the end of its service life.
Clamp loose or luminaire rotates	Bolt torque lost or wrong adaptor for the pole diameter; re-fit with the correct adaptor.

MAINTENANCE

- Clean the panel twice a year, monthly in dusty or coastal sites.
- Inspect clamp, gasket and cable entry at the same visit.
- The housing is factory-sealed: battery and controller service follows the factory procedure, not site work.

This manual restates the factory user manual for the two series. Torque values, foundation design and pole selection are the responsibility of the pole supplier and the project engineer. Draft R02 for internal review.