E-AblePower Technology

LISHUI E-ABLE POWER EQUIPMENT CO., LTD
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E-ABLE POWER / SOLAR LIGHTING / SUNMYTH

SunMyth

All-in-one solar street light · GH / LKH series · 30–120 W · 6 models · IP65

SunMyth is the E-ABLE POWER all-in-one solar street luminaire built on the GH / LKH platform. The solar panel, LiFePO4 battery, MPPT controller, SMD3030 LED module and microwave sensor sit in one sealed aluminium housing, so the pole carries the luminaire only: no separate panel bracket, no battery cabinet, no DC cabling on site.

Six models from 30 W to 120 W share the same 408 × 209 mm mounting interface and the same Ø80–92 mm pole clamp, so a project can be specified from one spare-parts list and one installation procedure.



6	24,000	200	3–5
models, 30–120 W	lm at 120 W	lm/W module efficacy	overcast days autonomy

KEY FEATURES

01

Integrated housing — Panel, battery, MPPT and LED in one die-cast body; the pole carries the luminaire only.

LiFePO4 and MPPT — 231 to 960 Wh, 12 h per night, 3–5 consecutive overcast days.

One clamp interface — 408 × 209 mm footprint and Ø80–92 mm clamp from 30 W to 120 W.

200 lm/W module — SMD3030 module, 96 to 336 LEDs, 6,000 to 24,000 lm across the six models.

Microwave sensing — Two-level dimming 100 % / 30 %, 15 s hold, segmented time control.

IP65 complete unit — RoHS and CE; 3-year manufacturer warranty on the complete luminaire.

MODEL RANGE

Model	Rated power	Luminous flux	Installation height
GH-30W	30 W	6,000 lm	5–7 m
GH-40W	40 W	8,000 lm	6–8 m
LKH-60W	60 W	12,000 lm	8–10 m
LKH-80W	80 W	16,000 lm	10–12 m
LKH-100W	100 W	20,000 lm	12–15 m
LKH-120W	120 W	24,000 lm	14–16 m

Six power steps on one platform; the mounting interface is identical in every model.

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Typical applications — Rural roads · municipal roads · highways · scenic spots · outdoor courts · parks · residential communities

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TECHNICAL DATA

02

Values are reproduced from the factory data sheet; options are confirmed on the order.

Model	30W	40W	60W	80W	100W	120W
Rated power	30 W	40 W	60 W	80 W	100 W	120 W
Solar panel	18 V / 50 W	18 V / 60 W	18 V / 80 W	18 V / 105 W	18 V / 130 W	18 V / 150 W
Battery	3.2 V / 72 Ah	3.2 V / 100 Ah	12.8 V / 38.4 Ah	12.8 V / 45 Ah	12.8 V / 60 Ah	12.8 V / 75 Ah
Battery energy	231 Wh	320 Wh	492 Wh	576 Wh	768 Wh	960 Wh
LED module	96	144	192	240	288	336
Luminous flux	6,000 lm	8,000 lm	12,000 lm	16,000 lm	20,000 lm	24,000 lm
Overall length	828 mm	933 mm	1,173 mm	1,386 mm	1,601 mm	2,006 mm
Installation height	5–7 m	6–8 m	8–10 m	10–12 m	12–15 m	14–16 m

SERIES DATA, COMMON TO ALL MODELS

Luminous efficacy	**200 lm/W (all models)**
Controller	**MPPT, light control + time control + microwave radar**
Discharge profile	**12 h per night, 3–5 rainy days; 100 % on detection, 30 % standby**
Mounting interface	**408 × 209 mm interface, pole clamp Ø80–92 mm**
Housing material	**Die-cast aluminium, anodised surface, silicone gasket**
Ingress protection	**IP65, complete luminaire**
Operating temperature	**0 °C to +55 °C**
Warranty	**3 years, manufacturer standard**

- Values are reproduced from the GH / LKH factory data sheet.
- Dimming levels, hold time and time segments are set on the controller at commissioning.
- Lumen values are module figures at 200 lm/W; luminaire flux at the ordered CCT is confirmed on the order.
- Packing is described by method only; carton size and gross weight are issued with the shipping documents.

CONTROL MODES

Mode 1	**4 h 100/30 · 2 h 100/30 · 4 h 80/20 · 2 h 100/30**
Mode 2	**1 h 80 · 2 h 100 · 1 h 70 · 8 h 30**
Mode 3	**1 h 80/80 · 3 h 100/100 · 2 h 70/30 · 4 h 50/10 · 2 h 70/20**
Mode 4	**Custom, set at commissioning**

Two figures per period: output with motion detection / output without motion. Single figures are fixed output.

WHAT TO FIX WHEN SPECIFYING

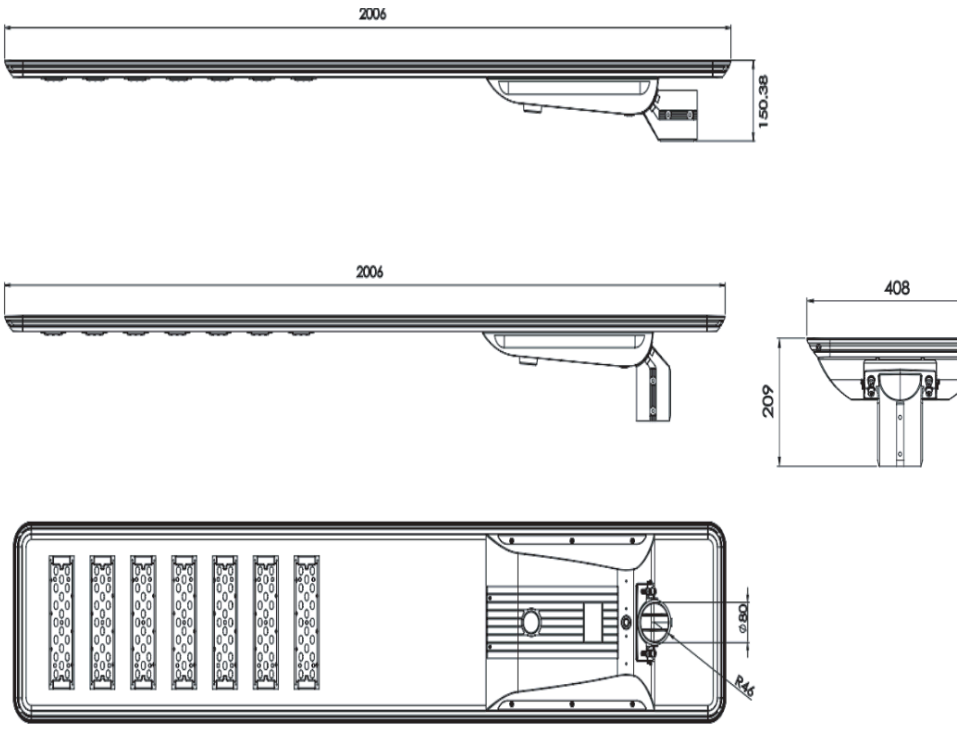
- Mounting height from the table: it sets the pole class, the arm and the spacing.
- Pole diameter at the clamp: Ø80–92 mm for SunMyth, Ø60 / 76 mm adaptor for OrbitRay.
- Nightly hours and overcast days to be covered; both set the battery energy for the site.

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DIMENSIONS & LIGHTING

03



Dimension drawing — Overall length 828 mm (30 W) to 2,006 mm (120 W); mounting interface 408 × 209 mm in every model.

OPERATING PROFILE

100 %
Movement detected

15 s

30 %
No movement, 15 s later

Two-level operation: the luminaire returns to full output within the detection window and dims again 15 s after the zone is clear.

DUSK-TO-DAWN CYCLE

The luminaire starts at dusk and holds rated output while the road is in use. When the detection zone has been clear for 15 s it drops to 30 %, and it returns to 100 % on the next approach. The cycle repeats until dawn, when the controller returns to charging for the next day. A full night is 12 h of operation at the selected profile.

KEY MOUNTING DATA

Ø80–92 mm
Pole clamp

408 × 209 mm
Mounting interface

0 °C to +55 °C
Operating temperature

COMPLIANCE AND PHOTOMETRY

RoHS and CE. IP65 applies to the complete luminaire. IES photometric files are available for all six models and are the reference for DIALux studies.

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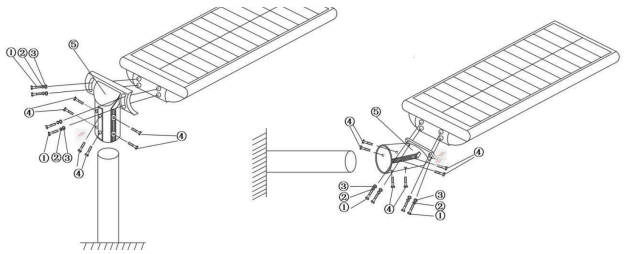
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INSTALLATION & COMMISSIONING

04

MOUNTING SEQUENCE

1. Switch on the waterproof switch inside the luminaire before lifting it to the pole.
2. Offer the luminaire to the pole, engage the clamp, and fit the M8 × 25 socket bolts with spring washer and gasket.
3. Set the panel tilt between 0° and 15° for the site latitude, then tighten evenly so the gasket is compressed without distortion.
4. Check that the panel sees the sun path without shade from buildings, trees or the pole itself for the whole day.
5. Leave the luminaire on charge for the first day; do not force discharge on the first night after installation.



Factory mounting diagram: top mount and side-entry pole.

SITE RULES

- Install on a dry day: a luminaire installed in rain cannot recover charge before its first night.
- The pole and its foundation are by others; the pole must be plumb and rated for the luminaire plus wind load.
- Do not open the sealed housing on site: battery and controller are factory-sealed, service follows the factory procedure.
- Storage over 6 months: recharge in sunlight or through the charging port before installation.

COMMISSIONING CHECKLIST

- 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.

MAINTENANCE / PACKING LIST

- Clean the panel twice a year, or monthly in dusty or coastal sites.
- Inspect the clamp and the gasket at the same time; replace a hardened gasket.
- Check the lens and the sensor window for dust, salt and insect nests.
- Battery capacity is verified by the night test; a shortened night indicates end of battery life.
- 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 instruction sheet (handover to the operator)

ORDERING AND SCOPE

Order by model code, for example GH-80W or LKAS-120W. State the pole diameter, the mounting height and, for OrbitRay, whether IoT monitoring is required. Poles, brackets and adaptors are quoted separately.

RoHS and CE. IP65 applies to the complete luminaire. IES photometric files are available for all six models and are the reference for DIALux studies.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement. Installation is summarised here; the full procedure is issued as a separate manual. Draft R02 for internal review.