E-AblePower Technology

LISHUI E-ABLE POWER EQUIPMENT CO., LTD
No.368, Chengbei Road, Liandu District, 323000, Lishui City, Zhejiang, China
www.e-ablepower.com | arthur@e-ablepower.com | WhatsApp +86 153 5558 9600

E-ABLE POWER / SOLAR GARDEN LIGHT / POST TOP

Solar Post Top Light TYD 5105

Lily · 3-head / 6-head · 52.5 W / 105 W · IP65 · 180°

The Lily is a post-top head for garden and estate lighting: it fixes on a Φ89 mm pole and throws light down onto the surface below from 4–10 m. Only the head is supplied, so the pole, foundation and cable are specified with the project rather than with the luminaire.

The body is die-cast aluminium with a PC diffuser, sealed to IP65, with a 18 V / 52.5 W (3-head) · 18 V / 105 W (6-head) monocrystalline panel and a 3.2 V / 60000–120000 mAh LiFePO4 battery in the head. Distribution is 180°, so spacing follows the pole grid and the head does not need to be aimed.



IN THIS DATASHEET

01	Technical data	Page 2
02	Dimensions	Page 3
03	Construction	Page 4
04	Applications	Page 5

IP65	105 W	8303	3–5	180°	Φ1660
PROTECTION	PANEL	LUMEN	RAINY DAYS	BEAM	HEAD, MM

KEY FEATURES

01

Die-cast aluminium body
One-piece casting, corrosion resistant, fixed with stainless fasteners.

Monocrystalline panel
18 V / 52.5 W (3-head) · 18 V / 105 W (6-head) panel in the head; charges in overcast weather.

LiFePO4 battery
3.2 V / 60000–120000 mAh; stable chemistry, deep-cycle tolerant.

Dusk-to-dawn control
Automatic on at dusk, off at dawn; no timer to set.

IP65 protection
Sealed against rain and dust for permanent outdoor use.

180° distribution
Light spread over 180° so the pool stays on the walking surface.

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
TYD-5105 / 3-head	3-head	52.5 W	Pole mount	Φ1660 mm
TYD-5105 / 6-head	6-head	105 W	Pole mount	Φ1660 mm

E-AblePower Technology

LISHUI E-ABLE POWER EQUIPMENT CO., LTD
No.368, Chengbei Road, Liandu District, 323000, Lishui City, Zhejiang, China
www.e-ablepower.com | arthur@e-ablepower.com | WhatsApp +86 153 5558 9600

TECHNICAL DATA

02

Values are transcribed from the supplier specification for this model, one column per head count. The 3-head figure for luminous flux is the supplier's figure for that mould; the 6-head flux is quoted per colour temperature. Bodies are cast in grey or black.

Item	3-head · 52.5 W	6-head · 105 W
Electrical		
Rated power	52.5 W	105 W
Input voltage	DC 3.2 V	DC 3.2 V
Solar panel	52.5 W / 18 V monocrystalline	105 W / 18 V monocrystalline
Battery	3.2 V / 60000 mAh LiFePO4	3.2 V / 120000 mAh LiFePO4
Charging time	6 h by bright sunlight	6 h by bright sunlight
Autonomy	12 h, 3–5 rainy days	12 h, 3–5 rainy days
Optical		
Light source	3030 SMD LED, 240 pcs	3030 SMD LED, 480 pcs
Luminous flux	4151 lm	7896 lm (3000K) / 8303 lm (6500K)
Colour temperature	3000K – 6500K	3000K – 6500K
CRI (Ra)	> 80	> 80
Beam angle	180°	180°
Construction		
Material	Die-cast aluminium + PC	Die-cast aluminium + PC
Head size	Φ1660 mm	Φ1660 mm
Overall size	1660 × H435 mm	1660 × H435 mm
Net weight	16.50 kg	27.84 kg
Mounting	Pole mount	Pole mount
Pole	Φ89 mm	Φ89 mm
Operating		
Protection	IP65	IP65
Operating temperature	−25 to +50 °C	−25 to +50 °C
Humidity	10–90 %	10–90 %
Installation height	4–10 m	4–10 m
Controller	Dusk-to-dawn sensor, waterproof push switch	Dusk-to-dawn sensor, waterproof push switch
Warranty	2 years	2 years
Certifications	CE, RoHS, IP65	CE, RoHS, IP65
Packing		
Outer carton	1 × 800 × 310 × 400 mm + 390 × 390 × 370 mm	2 × 800 × 310 × 400 mm + 390 × 390 × 370 mm
Gross weight	19.5 kg	30.5 kg

NOTES

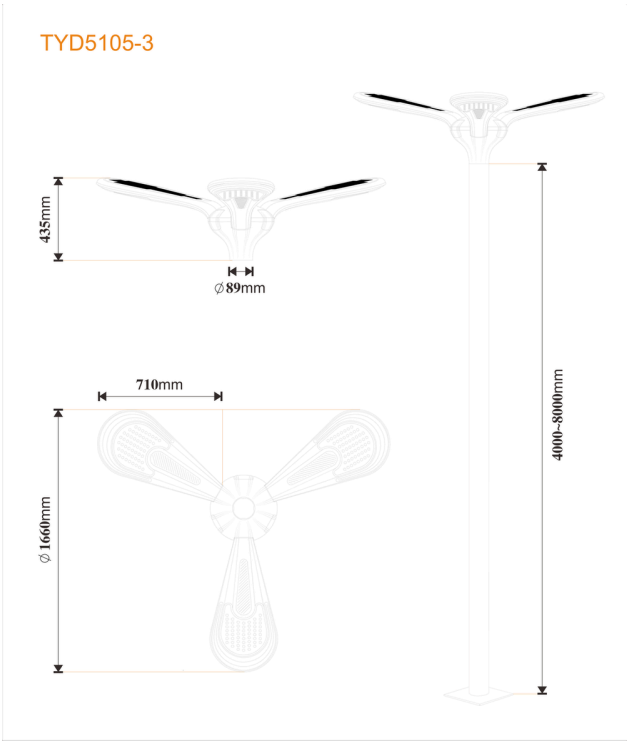
- Values are transcribed from the supplier specification sheet for this model. Where a range is given, the lower figure applies to the warm-white version and the upper to the cool-white version.
- Autonomy figures assume a full charge, the factory dusk-to-dawn program and normal winter insolation for the latitude of installation.
- Luminous flux and CRI are quoted per colour temperature; the two are measured separately on the production sample.

E-AblePower Technology

LISHUI E-ABLE POWER EQUIPMENT CO., LTD
No.368, Chengbei Road, Liandu District, 323000, Lishui City, Zhejiang, China
www.e-ablepower.com | arthur@e-ablepower.com | WhatsApp +86 153 5558 9600

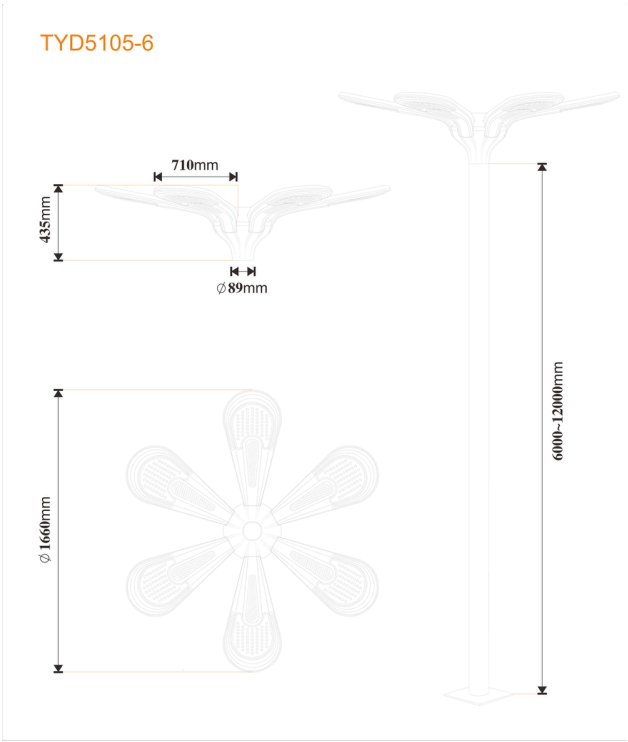
DIMENSIONS

TYD5105-3



TYD-5105 / 3-head · Φ1660 mm, H435 mm, pole socket Φ89 mm

TYD5105-6



TYD-5105 / 6-head · Φ1660 mm, H435 mm, pole socket Φ89 mm

One drawing per head count: three arms or six arms on the same 435 mm centre, spreading to a 1660 mm diameter, with a Φ89 mm pole socket. Both configurations take the same pole.

The head is supplied for pole mounting; the pole, foundation and cable are project items. Confirm the pole top diameter before ordering, and leave the cable loop long enough to connect the head before it is lifted into place.

INSTALLATION SEQUENCE

- **1 · Set the pole grid.** Mark centres at 6–10 m, depending on mounting height and the evenness of light wanted on the carriageway.
- **2 · Prepare the pole.** Confirm the pole top diameter and the cable entry; the head is fixed with the fasteners supplied through the mounting flange.
- **3 · Lift and fix.** Connect the supply or the panel lead, then lift the head and tighten the flange screws evenly so the head stays level.
- **4 · Commission.** Switch on and check the lamp responds to darkness only; a full charge takes one clear day.

SUPPLIED BY E-ABLE

- Luminaire head with integrated panel and battery
- Mounting flange and fasteners

BY THE PROJECT

- Pole and foundation
- Supply cable and protection (AC version only)

LISHUI E-ABLE POWER EQUIPMENT CO., LTD
No.368, Chengbei Road, Liandu District, 323000, Lishui City, Zhejiang, China
www.e-ablepower.com | arthur@e-ablepower.com | WhatsApp +86 153 5558 9600

CONSTRUCTION

04



3000K — warm white, 7896 lm, Ra 79.12



6500K — white, 8303 lm, Ra 80.09

BUILD AND MATERIALS

Construction	
Light source	3030 SMD LED, 480 pcs
Diffuser	PC translucent diffuser, even distribution
Body	One-piece die-cast aluminium, corrosion resistant
Solar panel	Monocrystalline 18 V / 105 W, integrated in the head
Battery	LiFePO4 3.2 V / 120000 mAh
Control	Dusk-to-dawn sensor, waterproof push switch

Each arm carries its own lens and LED board and is bolted to a common hub, so a 6-head unit is the 3-head casting repeated on a taller hub. That is why the two configurations share the pole socket, the size and the installation height.

WHAT TO SPECIFY

- **Configuration.** Head count and pole-top diameter are confirmed against the pole layout before the order is released.
- **Height.** 4–10 m mounting height for gardens and estate roads; confirm the pole top diameter before ordering.
- **Light colour.** 3000K – 6500K: 3000K for residential estates, 6500K for car parks and through roads.
- **Supply.** Solar head with integrated panel and battery, or 220–240 V AC where the pole already carries a cable.

2 years	CE, RoHS, IP65	MPPT
WARRANTY	CERTIFICATIONS	CONTROLLER

LISHUI E-ABLE POWER EQUIPMENT CO., LTD
No.368, Chengbei Road, Liandu District, 323000, Lishui City, Zhejiang, China
www.e-ablepower.com | arthur@e-ablepower.com | WhatsApp +86 153 5558 9600

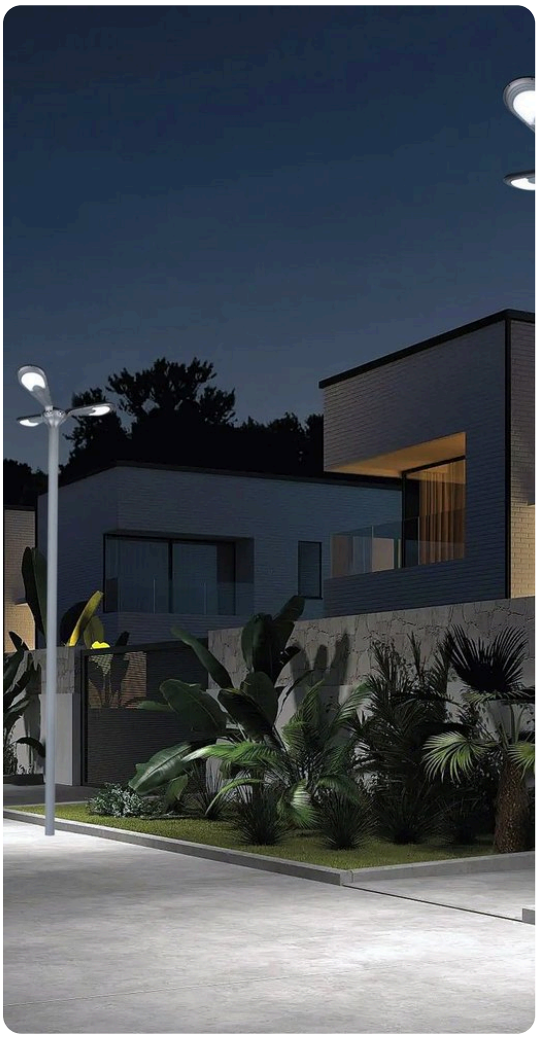
APPLICATIONS

05

A Lily is a **post-top** luminaire: the head is what we supply, and its job is to put an even layer of light on the road or path below from 4–10 m. The five settings below are the ones this model is ordered for most often.

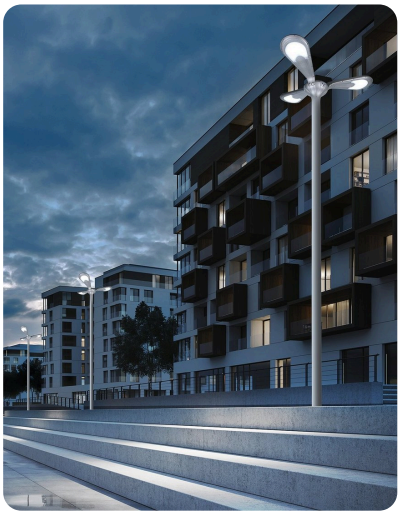
WHERE IT FITS

- **Residential estates and villa roads** — 6–8 m pole spacing on one side; the head's 180° distribution reaches the opposite kerb without overspill into gardens.
- **Park and plaza lighting** — poles set back from the walkway, heads at 4–5 m, so the light arrives at a shallow angle and faces are not in shadow.
- **Hotel and resort drives** — the head is a visible design element by day; single and multi-head versions can be mixed along the same drive.
- **Industrial parks and campuses** — wider spacing with multi-head configurations, where the priority is uniform coverage rather than accent.
- **Municipal roads and car parks** — solar heads where trenching is impractical; 3–5 overcast days of autonomy covers most temperate sites.











Selection note: 6–10 m pole spacing depending on mounting height; confirm pole top diameter, cable entry and the number of heads before ordering.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement.