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 2403

Window of Time · 400 × 400 × H420 mm · 20 W solar or 220–240 V · IP65 · 360°

The Window of Time is a post-top head for garden and estate lighting: it fixes on a Φ76 mm pole and throws light down onto the surface below from 2.5–5 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 20 W / 5 V monocrystalline panel and a 3.2 V / 20 000 mAh LiFePO4 battery in the head. Distribution is 360°, 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 | 20 W | 1 056–1 163 | 3–5 | 360° | 400 |
|---|---|---|---|---|---|
| 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**
20 W / 5 V panel in the head; charges in overcast weather.

**LiFePO4 battery**
3.2 V / 20 000 mAh; stable chemistry, deep-cycle tolerant.

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

**360° distribution**
Light spread over 360° so the pool stays on the walking surface.

**No trenching**
Fixes to the pole in minutes; no supply cable to bury.

## ORDERING OPTIONS

| Model | Size | Power | Mounting | Head |
|---|---|---|---|---|
| **TYD-2403** | 400 × 400 × H420 mm | Solar 20 W | Pole mount | 400 × 400 mm |
| **TYD-2403 AC** | 400 × 400 × H420 mm | 220–240 V AC | Pole mount | 400 × 400 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



The supplier states the head in two versions over the same frame: solar at 20 W with a 5 V / 20 W panel and a 20 000 mAh battery, and 220–240 V AC at 30 W. The AC version carries 100 LEDs against 80 and has a higher CRI; both are quoted per column.

| Item | Solar 20 W | AC 220–240 V |
|---|---|---|
| **Electrical** | | |
| **Rated power** | 20 W | 30 W |
| **Input voltage** | DC 3.2 V | AC 220–240 V, 50 Hz |
| **Solar panel** | 20 W / 5 V monocrystalline | — |
| **Battery** | 3.2 V / 20 000 mAh LiFePO4 | — |
| **Autonomy** | 12 h, 3–5 rainy days | Mains supply |
| **Optical** | | |
| **Light source** | 3030 SMD LED, 80 pcs | 3030 SMD LED, 100 pcs |
| **Luminous flux** | 1 056 lm (3000K) / 1 163 lm (6500K) | 2 912.62 lm (3000K) / 3 152.36 lm (6500K) |
| **Colour temperature** | 3000K – 6500K | 3000K – 6500K |
| **CRI (Ra)** | > 79 | > 81 |
| **Beam angle** | 360° | 360° |
| **Construction** | | |
| **Material** | Die-cast aluminium + PC | Die-cast aluminium + PC |
| **Lamp colour** | Black (other colours on request) | Black (other colours on request) |
| **Head size** | 400 × 400 mm | 400 × 400 mm |
| **Overall size** | 400 × 78 × H420 mm | 400 × 78 × H420 mm |
| **Net weight** | 5.32 kg | 3.72 kg |
| **Mounting** | Pole mount | Pole mount |
| **Operating** | | |
| **Protection** | IP65 | IP65 |
| **Operating temperature** | −25 to +50 °C | −25 to +50 °C |
| **Humidity** | 10–90 % | 10–90 % |
| **Installation height** | 2.5–5 m | 2.5–5 m |
| **Pole** | Φ76 mm | Φ76 mm |
| **Packing** | | |
| **Outer carton** | 1 pc, 405 × 405 × 200 mm | 1 pc, 405 × 405 × 200 mm |
| **Gross weight** | 6.44 kg | 4.48 kg |

## NOTES

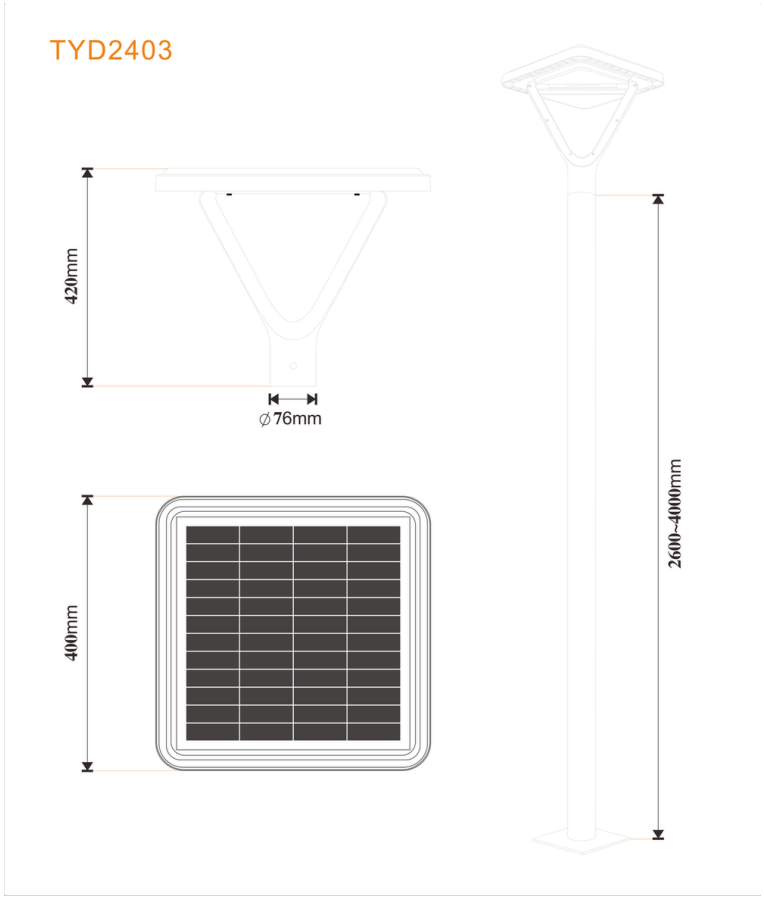
- Values are transcribed from the supplier specification sheet for this model. Where a range is given, the lower figure applies to the warm-white version and the upper to the cool-white version.
- Autonomy figures assume a full charge, the factory dusk-to-dawn program and normal winter insolation for 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

03




TYD-2403 · head 400 × 400 mm, height 420 mm, pole entry Φ76 mm

The head is a 400 × 400 mm frame on a 420 mm deep body that enters the pole through a Φ76 mm spigot. Side view, plan and pole elevation are on the supplier drawing; the pole is a project item and not part of the delivery.

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, 1 056 lm



6500K — white, 1 163 lm

## BUILD AND MATERIALS

| Construction | |
|---|---|
| **Light source** | 3030 SMD LED, 80 pcs, rated 80 000–100 000 h |
| **Diffuser** | PC translucent diffuser, even distribution |
| **Body** | One-piece die-cast aluminium, corrosion resistant |
| **Solar panel** | Monocrystalline 20 W / 5 V, integrated in the head |
| **Battery** | LiFePO4 3.2 V / 20 000 mAh, more than 2 000 cycles |
| **Control** | Dusk-to-dawn sensor, PWM controller, waterproof push switch |

The frame is a hollow aluminium square with the diffuser set into the underside, so the 360° output leaves through the base of the head rather than through the sides. That keeps the upper cover free for the solar panel and hides the LEDs from eye level.

## WHAT TO SPECIFY

- **Configuration.** Head count and pole-top diameter are confirmed against the pole layout before the order is released.
- **Height.** 2.5–5 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 | PWM |
|---|---|---|
| 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 Window of Time 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 2.5–5 m. The five settings below are the ones this model is ordered for most often.

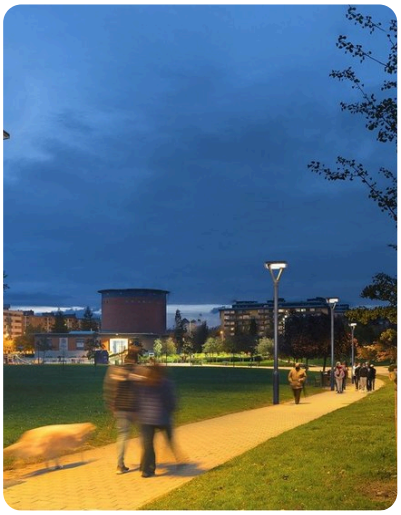
## WHERE IT FITS

- **Residential estates and villa roads** — 6–8 m pole spacing on one side; the head's 360° 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.