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 2508

Bloom · 415 × H385 mm · Solar 20 W · IP65 · 180°

The Bloom 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 3–5 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 5 V / 20 W monocrystalline panel and a 3.2 V / 20000 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	20 W	890.47	3–5	180°	Φ415
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
5 V / 20 W panel in the head; charges in overcast weather.

LiFePO4 battery
3.2 V / 20000 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.

2835 SMD light source
80 pcs, rated for long service in continuous night operation.

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
TYD-2508	415 × H385 mm	Solar 20 W	Pole mount	Φ415 mm

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. Flux and CRI are quoted per colour temperature, measured separately on the production sample; the head is a single die-casting with a milky-white PC diffuser.

Item	Solar · 20 W
Electrical	
Rated power	20 W
Input voltage	DC 3.2 V
Solar panel	20 W / 5 V monocrystalline
Battery	3.2 V / 20000 mAh LiFePO4
Charging time	6 h by bright sunlight
Autonomy	12 h, 3–5 rainy days
Optical	
Light source	2835 SMD LED, 80 pcs
Luminous flux	803.54 lm (3000K) / 890.47 lm (6500K)
Colour temperature	3000K – 6500K
CRI (Ra)	> 80
Beam angle	180°
Construction	
Material	Die-cast aluminium + PC
Lamp colour	Black (other colours on request)
Head size	Φ415 mm
Overall size	415 × H385 mm
Net weight	3.82 kg
Mounting	Pole mount
Pole	Φ76 mm
Operating	
Protection	IP65
Operating temperature	−25 to +50 °C
Humidity	10–90 %
Installation height	3–5 m
Controller	Dusk-to-dawn sensor, waterproof push switch
Warranty	2 years
Certifications	CE, RoHS, IP65
Packing	
Outer carton	1 pc, 415 × 415 × 420 mm
Gross weight	4.75 kg

NOTES

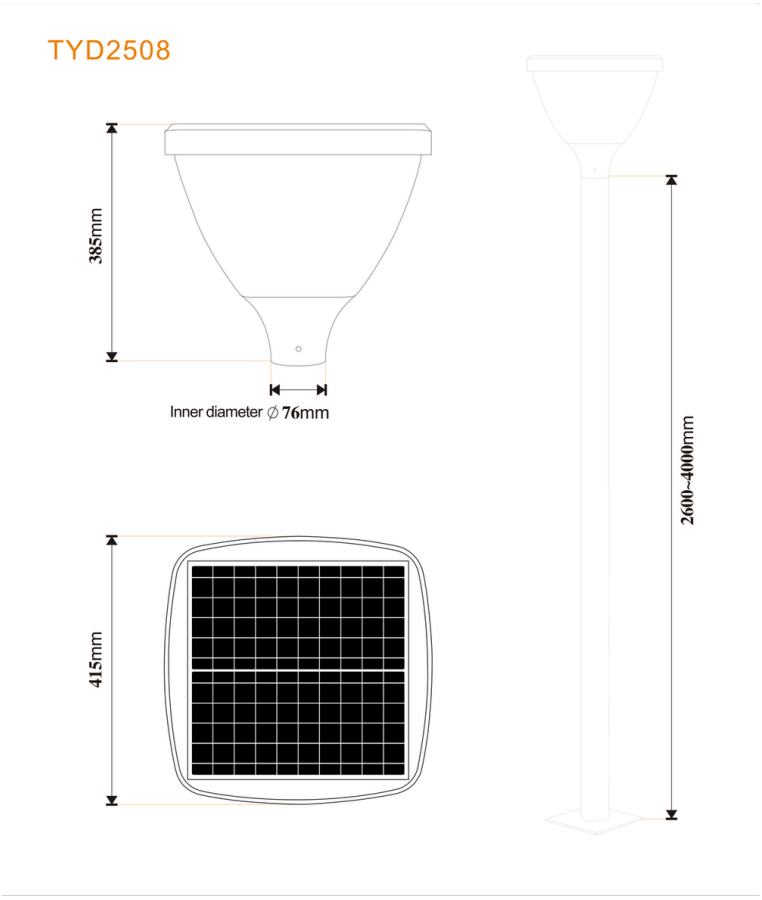
- Values are transcribed from the supplier specification sheet for this model. Where a range is given, the lower figure applies to the warm-white version and the upper to the cool-white version.
- Autonomy figures assume a full charge, the factory dusk-to-dawn program and normal winter insolation for 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-2508 · 415 mm × H385 mm

The square head measures 415 mm across and 385 mm from the panel rim to the pole socket; the socket takes a 76 mm pole top. The drawing is the supplier artwork, reproduced to scale.

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, 803.54 lm, Ra 81.37



6500K — white, 890.47 lm, Ra 80.05

BUILD AND MATERIALS

Construction	
Light source	2835 SMD LED, 80 pcs
Diffuser	PC translucent diffuser, even distribution
Body	One-piece die-cast aluminium, corrosion resistant
Solar panel	Monocrystalline 5 V / 20 W, integrated in the head
Battery	LiFePO4 3.2 V / 20000 mAh
Control	Dusk-to-dawn sensor, waterproof push switch

The panel sits flat on top of the head and the LED board is fixed under it, so the whole head is one casting with no separate gear box. Maintenance means removing four screws; the battery is replaceable and can be ordered with a larger capacity.

WHAT TO SPECIFY

- **Configuration.** Head count and pole-top diameter are confirmed against the pole layout before the order is released.
- **Height.** 3–5 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

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

APPLICATIONS

05

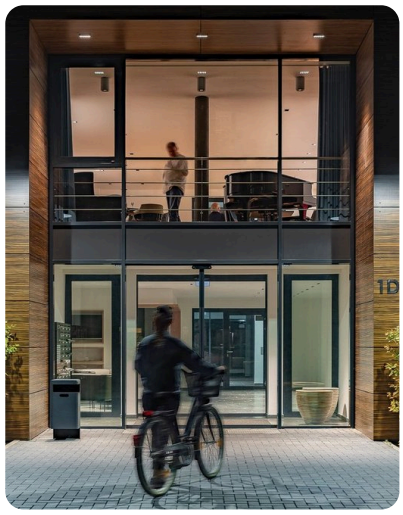
A Bloom is a **post-top** luminaire: the head is what we supply, and its job is to put an even layer of light on the road or path below from 3–5 m. The five settings below are the ones this model is ordered for most often.

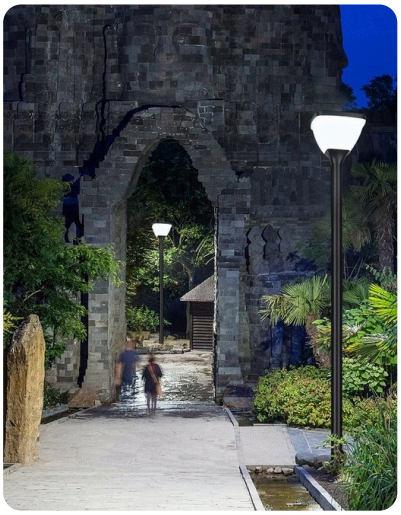
WHERE IT FITS

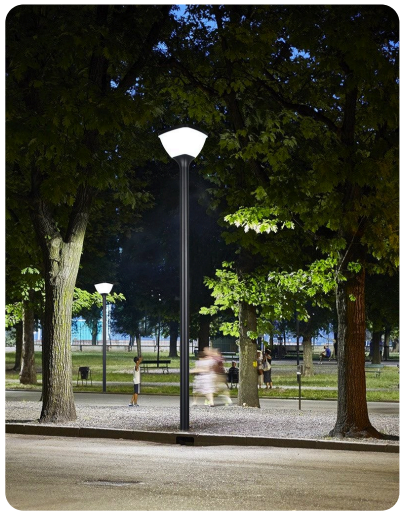
- **Residential estates and villa roads** — 6–8 m pole spacing on one side; the head's 180° distribution reaches the opposite kerb without overspill into gardens.
- **Park and plaza lighting** — poles set back from the walkway, heads at 4–5 m, so the light arrives at a shallow angle and faces are not 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.