E-AblePower Technology

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E-ABLE POWER / SOLAR GARDEN LIGHT / POST TOP

Solar Post Top Light TYD 1104

Four O'Clock · Φ530 × H440 mm · 25 W solar or 220–240 V · IP65 · 180°

The Four O'Clock 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 25 W / 5 V monocrystalline panel and a 3.2 V / 30 000 mAh LiFePO4 battery in the head. Distribution is 180°, so spacing follows the pole grid and the head does not need to be aimed.



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IP65	25 W	1 249–1 344	3–5	180°	Φ530
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
25 W / 5 V panel in the head; charges in overcast weather.

LiFePO4 battery
3.2 V / 30 000 mAh; stable chemistry, deep-cycle tolerant.

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

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

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

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
TYD-1104	Φ530 × H440 mm	Solar 25 W	Pole mount	Φ530 mm
TYD-1104 AC	Φ530 × H440 mm	220–240 V AC	Pole mount	Φ530 mm

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TECHNICAL DATA

The supplier states the head in two versions over the same body: solar at 25 W with a 5 V / 25 W panel and a 30 000 mAh battery, and 220–240 V AC at 50 W. LED count and beam angle are the same; flux and weight differ and are quoted per column.

Item	Solar 25 W	AC 220–240 V
Electrical		
Rated power	25 W	50 W
Input voltage	DC 3.2 V	AC 220–240 V, 50 Hz
Solar panel	25 W / 5 V monocrystalline	—
Battery	3.2 V / 30 000 mAh LiFePO4	—
Autonomy	12 h, 3–5 rainy days	Mains supply
Optical		
Light source	3030 SMD LED, 160 pcs	3030 SMD LED, 160 pcs
Luminous flux	1 249 lm (3000K) / 1 344 lm (6500K)	4 826.57 lm (3000K) / 5 074.16 lm (6500K)
Colour temperature	3000K – 6500K	3000K – 6500K
CRI (Ra)	> 81	> 81
Beam angle	180°	180°
Construction		
Material	Die-cast aluminium + PC	Die-cast aluminium + PC
Lamp colour	Black (other colours on request)	Black (other colours on request)
Head size	Φ530 mm	Φ530 mm
Overall size	Φ530 × 78 × H440 mm	Φ530 × 78 × H440 mm
Net weight	6.47 kg	4.18 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, 540 × 540 × 470 mm	1 pc, 540 × 540 × 470 mm
Gross weight	7.88 kg	5.60 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.

VERSIONS



Solar head, panel in the top cover



Head Φ530 mm, closed top cover

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DIMENSIONS

03



TYD-1104 · head Φ530 mm, height 440 mm, pole entry Φ76 mm

Two views of the same head: the solar version above, with the panel in the top cover, and the AC version below, with a closed cover. Head Φ530 mm, 440 mm tall, on a Φ76 mm pole entry; the pole itself is a project item.

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)

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CONSTRUCTION

04



3000K — warm white, 1 249 lm, Ra 81.47



6500K — white, 1 344 lm, Ra 81.62

BUILD AND MATERIALS

Construction	
Light source	3030 SMD LED, 160 pcs, rated 80 000–100 000 h
Diffuser	PC translucent diffuser, even distribution
Body	One-piece die-cast aluminium, corrosion resistant
Solar panel	Monocrystalline 25 W / 5 V, integrated in the head
Battery	LiFePO4 3.2 V / 30 000 mAh, more than 2 000 cycles
Control	Dusk-to-dawn sensor, PWM controller, waterproof push switch

The diffuser is a single flared body rather than a lens ring, so the 180° output leaves the head all round the rim and the underside stays evenly lit. The spigot is on the axis, which lets the same head sit level on a straight or a tapered pole top.

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

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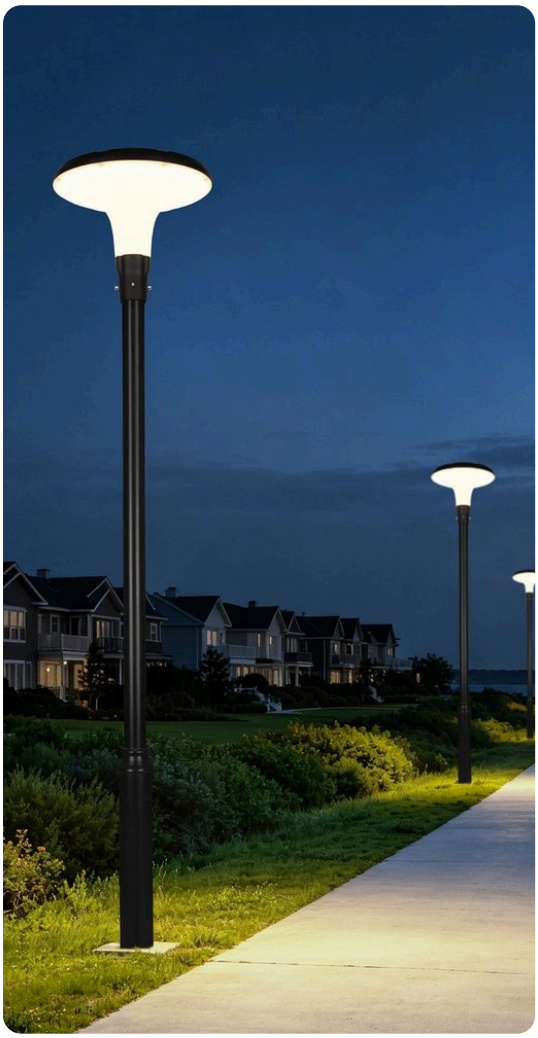
APPLICATIONS

05

A Four O'Clock 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.

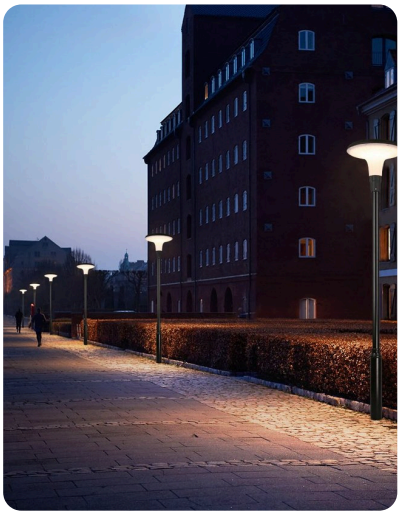
WHERE IT FITS

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