E-AblePower Technology

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E-ABLE POWER / SOLAR GARDEN LIGHT / POST TOP

Solar Post Top Light TYD 5108

Red-Crowned Crane · Φ630 × H495 mm · Solar 25 W · IP65 · 90°

The Red-Crowned Crane 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 25 W / 5 V monocrystalline panel and a 3.2 V / 36000 mAh LiFePO4 battery in the head. Distribution is 90°, so spacing follows the pole grid and the head does not need to be aimed.



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IP65	25 W	1767.43	3–5	90°	Φ630
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 / 36000 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.

90° distribution
Light spread over 90° so the pool stays on the walking surface.

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
TYD-5108	Φ630 × H495 mm	Solar 25 W	Pole mount	Φ630 mm

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TECHNICAL DATA

02

Values are transcribed from the supplier specification for this model. Flux and CRI are quoted per colour temperature. The panel fills the top face and the 90° optic is aimed along the bent stem, so the head is fixed to one side of the pole.

Item	Solar · 25 W
Electrical	
Rated power	25 W
Input voltage	DC 3.2 V
Solar panel	25 W / 5 V monocrystalline
Battery	3.2 V / 36000 mAh LiFePO4
Charging time	6 h by bright sunlight
Autonomy	12 h, 3–5 rainy days
Optical	
Light source	3030 SMD LED, 100 pcs
Luminous flux	1574.3 lm (3000K) / 1767.43 lm (6500K)
Colour temperature	3000K – 6500K
CRI (Ra)	> 80
Beam angle	90°
Construction	
Material	Die-cast aluminium + PC
Lamp colour	Black (other colours on request)
Head size	Φ630 mm
Overall size	Φ630 × Φ435 × H495 mm
Net weight	5.73 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, 720 × 490 × 165 mm
Gross weight	6.74 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.

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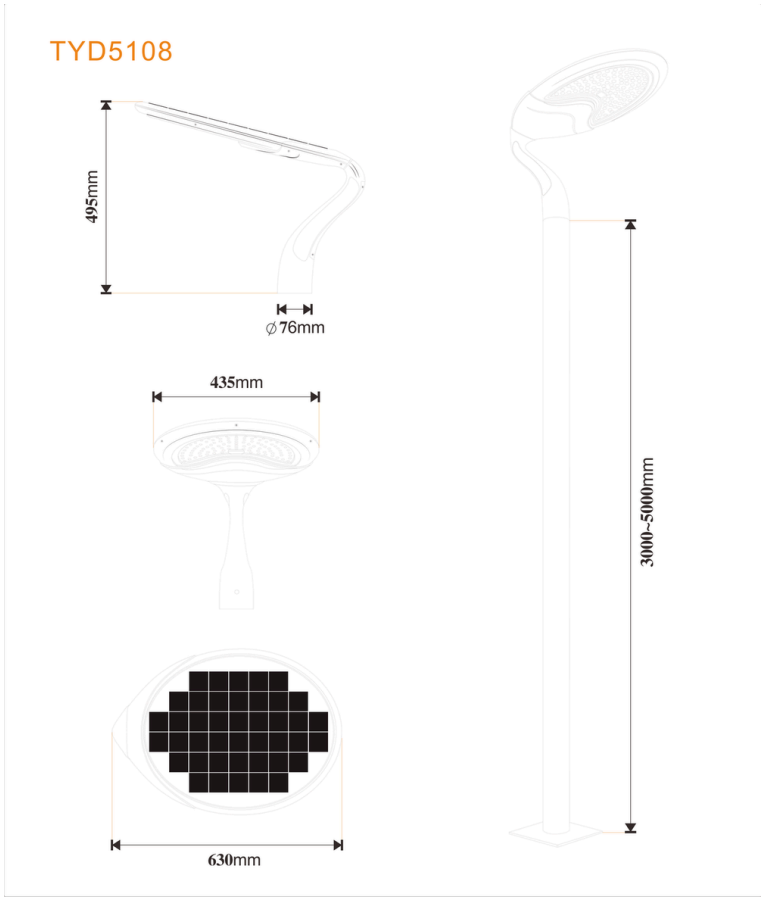
DIMENSIONS

03



TYD-5108 · Φ630 mm, head height 495 mm

The head is a 630 mm disc on a 435 mm deep casting, 495 mm high, with a 76 mm pole socket. 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)

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CONSTRUCTION

04



3000K — warm white, 1574.3 lm, Ra 79.99



6500K — white, 1767.43 lm, Ra 78.44

BUILD AND MATERIALS

Construction	
Light source	3030 SMD LED, 100 pcs
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 / 36000 mAh
Control	Dusk-to-dawn sensor, waterproof push switch

The 100 SMD LEDs sit behind a sealed PC lens that is the full size of the opening, so the light leaves as one broad beam rather than as a spot. That is what keeps a 90° head usable at 3–5 m without a visible hot spot on the ground.

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

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APPLICATIONS

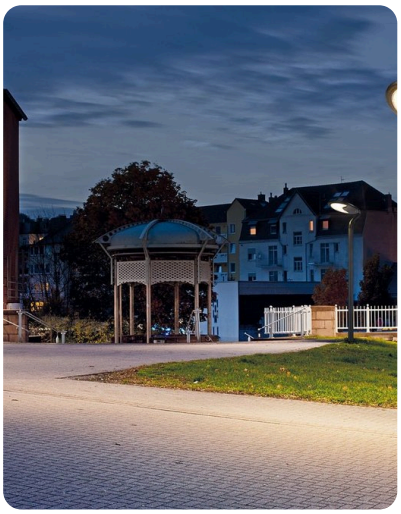
05

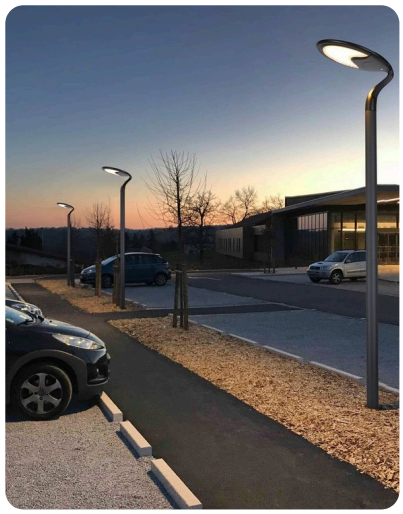
A Red-Crowned Crane is a **post-top** luminaire: the head is what we supply, and its job is to put an even layer of light on the road or path below from 3–5 m. The five settings below are the ones this model is ordered for most often.

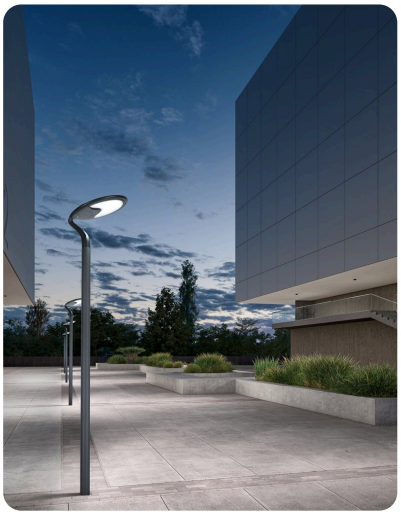
WHERE IT FITS

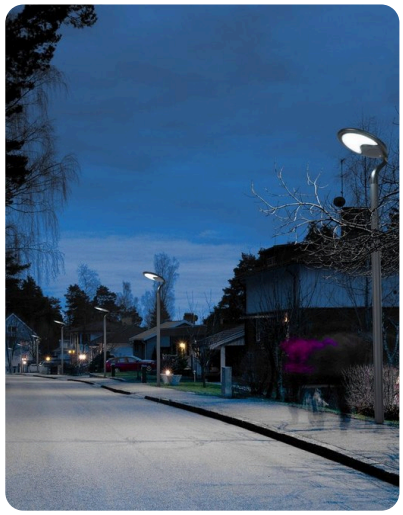
- **Residential estates and villa roads** — 6–8 m pole spacing on one side; the head's 90° distribution reaches the opposite kerb without overspill into gardens.
- **Park and plaza lighting** — poles set back from the walkway, heads at 4–5 m, so the light arrives at a shallow angle and faces are not 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.