E-AblePower Technology

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E-ABLE POWER / SOLAR GARDEN LIGHT / POST TOP

Solar Post Top Light TYD 5106

Fire Wheel · 3-head / 6-head · 33 W / 66 W · IP65 · 360°

The Fire Wheel 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 4–8 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 / 33 W (3-head) · 5 V / 66 W (6-head) monocrystalline panel and a 3.2 V / 45000–80000 mAh LiFePO4 battery in the head. Distribution is 360°, so spacing follows the pole grid and the head does not need to be aimed.



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IP65	66 W	2755.24	3–5	360°	Φ1260
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 / 33 W (3-head) · 5 V / 66 W (6-head) panel in the head; charges in overcast weather.

LiFePO4 battery
3.2 V / 45000–80000 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.

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

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
TYD-5106 / 3-head	3-head	33 W	Pole mount	Φ1260 mm
TYD-5106 / 6-head	6-head	66 W	Pole mount	Φ1260 mm

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TECHNICAL DATA

02

Values are transcribed from the supplier specification and parameter sheet, one column per head count. The supplier quotes a luminous flux for the six-head assembly only, so the three-head flux is left blank rather than estimated. Bodies are cast in grey.

Item	3-head · 33 W	6-head · 66 W
Electrical		
Rated power	33 W	66 W
Input voltage	DC 3.2 V	DC 3.2 V
Solar panel	33 W / 5 V monocrystalline	66 W / 5 V monocrystalline
Battery	3.2 V / 45000 mAh LiFePO4	3.2 V / 80000 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, 180 pcs	3030 SMD LED, 360 pcs
Luminous flux	—	2480.35 lm (3000K) / 2755.24 lm (6500K)
Colour temperature	3000K – 6500K	3000K – 6500K
CRI (Ra)	> 80	> 80
Beam angle	360°	360°
Construction		
Material	Die-cast aluminium + PC	Die-cast aluminium + PC
Head size	Φ1260 mm	Φ1260 mm
Overall size	1260 × H390 mm	1260 × H390 mm
Net weight	14.9 kg	23.93 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	4–8 m	4–8 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 × 610 × 340 × 420 mm + 390 × 390 × 370 mm	2 × 610 × 340 × 420 mm + 390 × 390 × 370 mm
Gross weight	17 kg	26.5 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.

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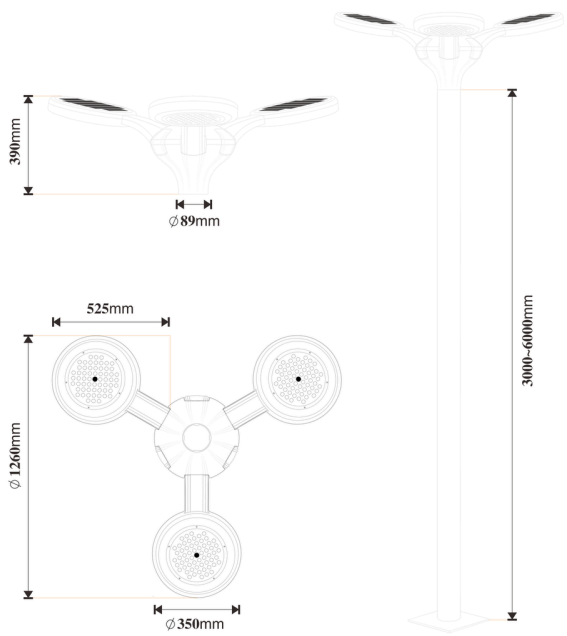
DIMENSIONS

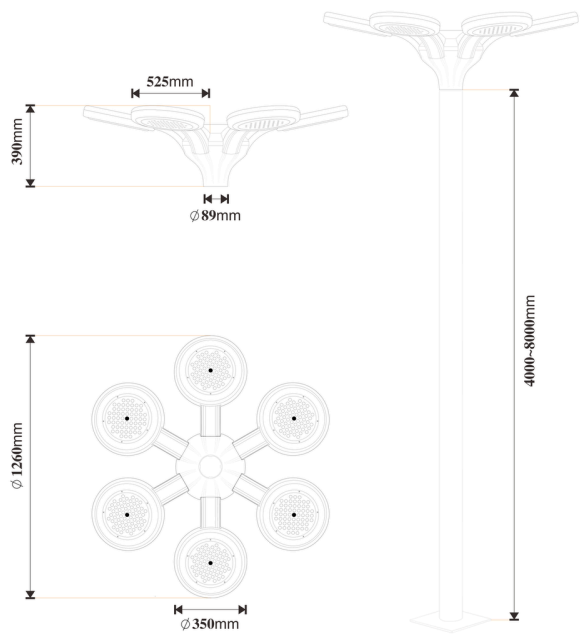
03

TYD5106-3



TYD-5106 / 3-head · Φ1260 mm, H390 mm, pole socket Φ89 mm

TYD5106-6



TYD-5106 / 6-head · Φ1260 mm, H390 mm, pole socket Φ89 mm

One drawing per head count: three or six petal heads on the same hub, 1260 mm overall, 390 mm high, with a Φ89 mm pole socket. Each petal is a 350 mm disc on the 3-head version.

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, 2480.35 lm, Ra 79.12



6500K — white, 2755.24 lm, Ra 80.09

BUILD AND MATERIALS

Construction	
Light source	3030 SMD LED, 360 pcs
Diffuser	PC translucent diffuser, even distribution
Body	One-piece die-cast aluminium, corrosion resistant
Solar panel	Monocrystalline 5 V / 66 W, integrated in the head
Battery	LiFePO4 3.2 V / 80000 mAh
Control	Dusk-to-dawn sensor, waterproof push switch

The petals radiate from a cast hub so the light leaves on 360°, which is why the head works on a pole in the middle of a square rather than against a wall. Each petal carries its own panel on the six-head version; the three-head version uses the same casting with three positions filled.

WHAT TO SPECIFY

- **Configuration.** Head count and pole-top diameter are confirmed against the pole layout before the order is released.
- **Height.** 4–8 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 Fire Wheel 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 4–8 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.