LISHUI E-ABLE POWER EQUIPMENT CO., LTD
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E-ABLE POWER / SOLAR GARDEN LIGHT / BOLLARD

Solar Bollard Light CPD 2104

Heart · H500 / H750 mm · 4.5 W · IP65 · 180°

The Heart is a H500 / H750 mm bollard for paths, garden edges and courtyard planting. It is a pedestrian-scale fixture: the light lands on the surface people walk on, not on the space above it, which is why the format belongs to gardens and estate roads rather than to street lighting.

The head is shared across the range on a Φ260 diameter; the body is die-cast aluminium with a PC diffuser, sealed to IP65. A 4.5 W / 5 V monocrystalline panel and a 3.2 V / 8000 mAh LiFePO4 battery sit in the head.



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IP65	4.5 W	288.54–266.26	3–5	180°	Φ260
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
4.5 W / 5 V panel in the head; charges in overcast weather.

LiFePO4 battery
3.2 V / 8000 mAh; stable chemistry, deep-cycle tolerant.

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

Dusk-to-dawn control
Automatic on at dusk, off at dawn; no timer to set.

No trenching
Fixes to a base plate in minutes; no supply cable to bury.

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
CPD-2104 / H500	H500 mm	4.5 W	Base, expansion screws	Φ260 mm
CPD-2104 / H750	H750 mm	4.5 W	Base, expansion screws	Φ260 mm

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TECHNICAL DATA

02

Values are transcribed from the supplier parameter table for CPD-2104. The head is die-cast aluminium with a double-layer PC shade; the post carries a Φ120 mm plate fixed with three expansion screws, and the lamp can be ordered with a 220 mm spike for soil. Net weight is not stated by the supplier for this model.

Item	H500 mm	H750 mm
Electrical		
Rated power	4.5 W	4.5 W
Input voltage	DC 3.2 V	DC 3.2 V
Solar panel	4.5 W / 5 V monocrystalline	4.5 W / 5 V monocrystalline
Battery	3.2 V / 8000 mAh LiFePO4	3.2 V / 8000 mAh LiFePO4
Charging time	4–6 h by bright sunlight	4–6 h by bright sunlight
Autonomy	3–5 rainy days	3–5 rainy days
Controller	Dusk-to-dawn sensor, PWM controller, waterproof push switch	Dusk-to-dawn sensor, PWM controller, waterproof push switch
Optical		
Light source	2835 SMD LED, 30 pcs	2835 SMD LED, 30 pcs
Luminous flux	288.54 lm (3000K) / 266.26 lm (6500K)	288.54 lm (3000K) / 266.26 lm (6500K)
Colour temperature	3000K – 6500K	3000K – 6500K
CRI (Ra)	> 80	> 80
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	Φ260 mm	Φ260 mm
Overall size	260 × 120 × H500 mm	260 × 120 × H750 mm
Mounting	Base, expansion screws	Base, expansion screws
Operating		
Protection	IP65	IP65
Operating temperature	−25 to +50 °C	−25 to +50 °C
Humidity	10–90 %	10–90 %
Installation height	3–5 m	3–5 m
Warranty	2 years	2 years
Certifications	CE, RoHS, IP65	CE, RoHS, IP65
Packing		
Inner box	1 pc, 280 × 280 × 300 mm	1 pc, 280 × 280 × 300 mm
Outer carton	4 pcs, 580 × 580 × 340 mm	4 pcs, 680 × 590 × 340 mm
Gross weight	10.6 kg (outer, 4 pcs)	12.6 kg (outer, 4 pcs)

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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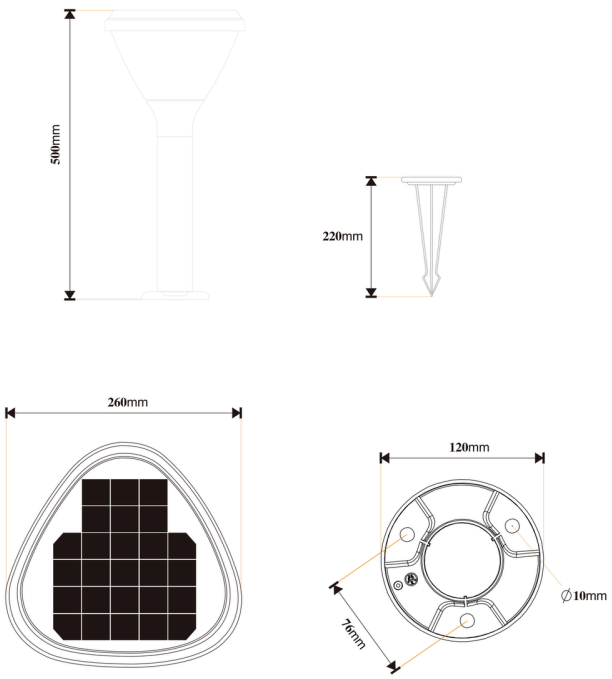
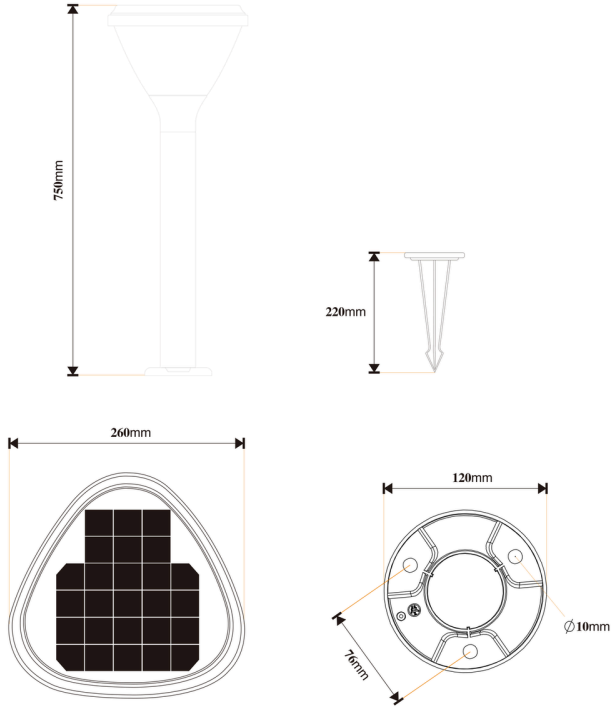
DIMENSIONS



CPD-2104 · H500 mm on a Φ120 mm base plate



CPD-2104 · H750 mm on a Φ120 mm base plate

Both heights are dimensioned on the same Φ120 mm base plate, with the 76 mm fixing circle and four Φ10 mm holes. The 220 mm ground spike shown beside the drawing is an alternative to the plate for planting beds.

The base version is fixed to a concrete plinth or a paving base with expansion screws. Every height in the range uses the same head and the same fixing points, so a shorter unit can be swapped for a taller one without redrilling.

INSTALLATION SEQUENCE

- **1 · Set out the line.** Mark centres at 3–5 m for paths and 6–8 m for estate roads; keep 0.3 m clear of the paving edge so the base is not walked on.
- **2 · Fix the base.** Cast a small plinth or use the paving base, then tighten the three expansion screws; check the post is plumb before final tightening.
- **3 · Mount the head.** Seat the head on the post and align the light distribution with the walking surface; the distribution is symmetric, so alignment is for appearance only.
- **4 · Commission.** Press the switch and wait 3 s; confirm the lamp lights only in darkness. A full charge takes one clear day.

SUPPLIED BY E-ABLE

- Luminaire head with integrated panel and battery
- Post and base plate
- Three expansion screws

BY THE PROJECT

- Concrete plinth or paving base
- Supply cable and protection (AC version only)

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CONSTRUCTION

04



BUILD AND MATERIALS

Construction	
Light source	2835 SMD LED, 30 pcs, rated 80 000–100 000 h
Diffuser	PC translucent diffuser, even distribution
Body	One-piece die-cast aluminium, corrosion resistant
Solar panel	Monocrystalline 4.5 W / 5 V, integrated in the head
Battery	LiFePO4 3.2 V / 8000 mAh, more than 2 000 cycles
Control	Dusk-to-dawn sensor, PWM controller, waterproof push switch

The shade is a double PC layer: the inner skin diffuses the LED image and the outer skin protects it, which is why the head reads as an even panel rather than a point source. The fixture is 500 or 750 mm tall and is fixed at 3–5 m spacing.

WHAT TO SPECIFY

- **Height.** H500 / H750 mm — use the lower height for planting borders and low hedges, the higher where the head must clear shrubs.
- **Mounting.** Base for paving and concrete; spike for soil and mulch.
- **Light colour.** 3000K – 6500K: 3000K for warm residential settings, 6500K where a cooler, brighter path is wanted.

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APPLICATIONS

05

A H500 / H750 mm bollard is a **pedestrian-scale** fixture: it lights the surface people walk on, not the space above it. That is why the format belongs to gardens and estate roads rather than to street lighting. The five settings below are the ones this model is ordered for most often.

WHERE IT FITS

- **Villa gardens and courtyards** — line the path from gate to door at 3–4 m spacing; the 180° distribution lights the paving without throwing light into bedroom windows.
- **Community greenways and residential roads** — higher units on both edges read as a continuous ribbon at night and mark the kerb line for drivers.
- **Park and plaza edges** — mixed with planting, they define the walkable area without poles or glare.
- **Hotel and resort landscaping** — the head is decorative in daylight, so it doubles as garden furniture rather than a technical fixture.
- **Municipal footpaths and cycleways** — solar units avoid trenching; 3–5 overcast days of autonomy covers most temperate and subtropical sites.











Selection note: space the units at 3–5 m for path lighting and 6–8 m for estate roads; keep the lower height for planting borders and the higher where the fixture must clear shrubs.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement.