E-AblePower Technology

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E-ABLE POWER / SOLAR GARDEN LIGHT / BOLLARD

# Solar Bollard Light CPD 8804

Autumn Moon · 600 / 800 / 1000 mm · Solar 4.5 W · IP65 · 180°

The Autumn Moon is a 600 / 800 / 1000 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 Φ257 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 / 6000 mAh LiFePO4 battery sit in the head.



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| IP65 | 4.5 W | 246.07–259.8 | 3–5 | 180° | Φ257 |
|---|---|---|---|---|---|
| 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 / 6000 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.

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

## ORDERING OPTIONS

| Model | Size | Power | Mounting | Head |
|---|---|---|---|---|
| **CPD-8804 / 60** | 600 mm | Solar 4.5 W | Base, expansion screws | Φ257 mm |
| **CPD-8804 / 80** | 800 mm | Solar 4.5 W | Base, expansion screws | Φ257 mm |
| **CPD-8804 / 100** | 1000 mm | Solar 4.5 W | Base, expansion screws | Φ257 mm |

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## TECHNICAL DATA

02

Luminous flux is quoted as measured on the production sample, with the decimals of the supplier sheet kept. Net weight is not stated per unit by the supplier; the gross weight below is for a carton of four.

| Item | 600 mm | 800 mm | 1000 mm |
|---|---|---|---|
| **Electrical** | | | |
| **Rated power** | 4.5 W | 4.5 W | 4.5 W |
| **Input voltage** | DC 3.2 V | DC 3.2 V | DC 3.2 V |
| **Solar panel** | 4.5 W / 5 V monocrystalline | 4.5 W / 5 V monocrystalline | 4.5 W / 5 V monocrystalline |
| **Battery** | 3.2 V / 6000 mAh LiFePO4 | 3.2 V / 6000 mAh LiFePO4 | 3.2 V / 6000 mAh LiFePO4 |
| **Charging time** | 4–6 h by bright sunlight | 4–6 h by bright sunlight | 4–6 h by bright sunlight |
| **Autonomy** | 3–5 rainy days | 3–5 rainy days | 3–5 rainy days |
| **Optical** | | | |
| **Light source** | 2835 SMD LED, 40 pcs | 2835 SMD LED, 40 pcs | 2835 SMD LED, 40 pcs |
| **Luminous flux** | 246.07 lm (3000K) / 259.8 lm (6500K) | 246.07 lm (3000K) / 259.8 lm (6500K) | 246.07 lm (3000K) / 259.8 lm (6500K) |
| **Colour temperature** | 3000K – 6500K | 3000K – 6500K | 3000K – 6500K |
| **CRI (Ra)** | > 79 | > 79 | > 79 |
| **Beam angle** | 180° | 180° | 180° |
| **Construction** | | | |
| **Material** | Die-cast aluminium + PC | Die-cast aluminium + PC | Die-cast aluminium + PC |
| **Lamp colour** | Black (other colours on request) | Black (other colours on request) | Black (other colours on request) |
| **Head size** | Φ257 mm | Φ257 mm | Φ257 mm |
| **Overall size** | Φ257 × 110 × H600 mm | Φ257 × 110 × H800 mm | Φ257 × 110 × H1000 mm |
| **Mounting** | Base, expansion screws | Base, expansion screws | Base, expansion screws |
| **Operating** | | | |
| **Protection** | IP65 | IP65 | IP65 |
| **Operating temperature** | −25 to +50 °C | −25 to +50 °C | −25 to +50 °C |
| **Humidity** | 10–90 % | 10–90 % | 10–90 % |
| **Installation height** | 3–5 m | 3–5 m | 3–5 m |
| **Packing** | | | |
| **Outer carton** | 4 pcs, 500 × 500 × 680 mm | 4 pcs, 500 × 500 × 870 mm | 4 pcs, 510 × 510 × 1070 mm |
| **Gross weight** | 11.35 kg (outer, 4 pcs) | 13.44 kg (outer, 4 pcs) | 16.01 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.

## VERSIONS



600 mm, panel face



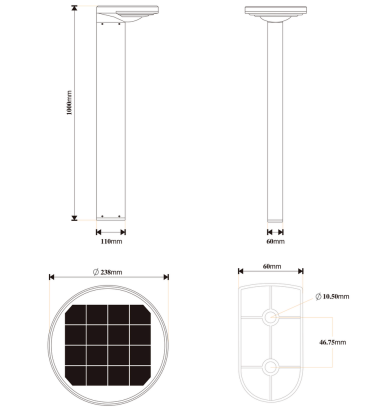
1000 mm, front view

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## DIMENSIONS

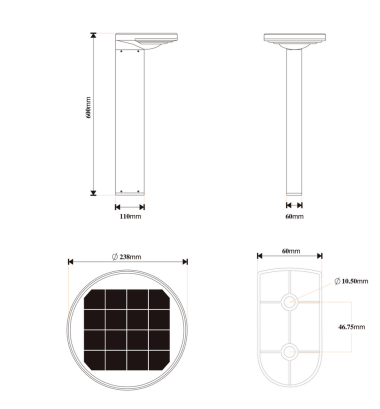


CPD8804-1000mm



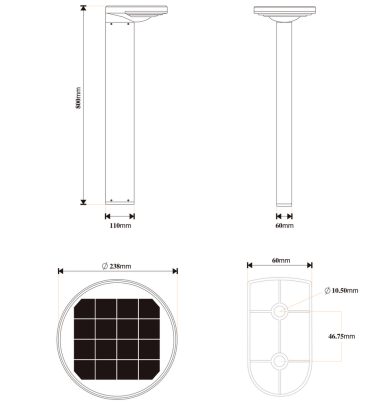

CPD-8804 / 100 · overall height 1000 mm

CPD8804-600mm




CPD-8804 / 60 · overall height 600 mm

CPD8804-800mm




CPD-8804 / 80 · overall height 800 mm

The parameter table quotes the head as Φ257 mm; the drawing dimensions the solar face at Φ238 mm, and both figures belong to the same head. Body 60 × 110 mm, base plate with two Φ10.5 mm holes at 46.75 mm centres.

The base version is fixed to a concrete plinth or a paving base with two expansion screws. The three heights share the same 60 × 110 mm foot and the same two fixing points, so one unit can be replaced by another 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
- Body and base plate
- Expansion screws

### BY THE PROJECT

- Concrete plinth or paving base

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## CONSTRUCTION

04



3000K — warm white, 246.07 lm, Ra 78.11



6500K — white, 259.8 lm, Ra 79.35

## BUILD AND MATERIALS

| Construction | |
|---|---|
| **Light source** | 2835 SMD LED, 40 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 / 6000 mAh, more than 2 000 cycles |
| **Control** | Dusk-to-dawn sensor, PWM controller, waterproof push switch |

The flat disc head sits on a 60 × 110 mm post, so the 180° distribution reads as a wide pool around the foot rather than a forward beam; that is what suits planting borders and low hedges.

## WHAT TO SPECIFY

- **Height.** 600 / 800 / 1000 mm — the low unit for planting borders, the tall ones where the head must clear shrubs and low hedges.
- **Fixing.** Base plate on a concrete plinth or a paving base; two M10.5 holes at 46.75 mm centres, the same on every height.
- **Spacing.** 3–5 m along a path edge and 6–8 m on estate roads; the 180° distribution keeps the light on the walking surface.
- **Light colour.** 3000K – 6500K: 3000K for warm residential settings, 6500K where a cooler, brighter path is wanted.

| 2 years | CE, RoHS, IP65 | PWM |
|---|---|---|
| WARRANTY | CERTIFICATIONS | CONTROLLER |

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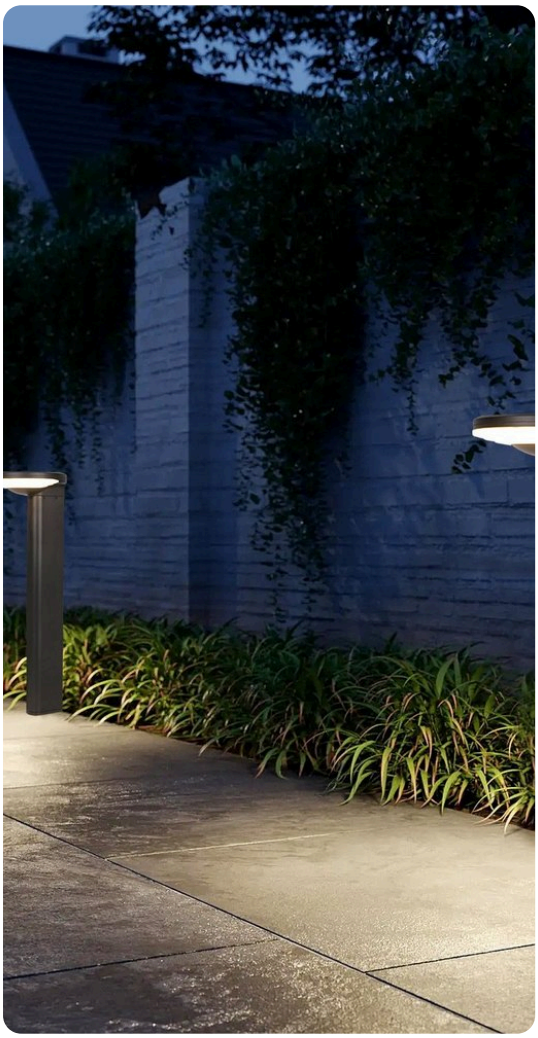
## APPLICATIONS

05

A 600 / 800 / 1000 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

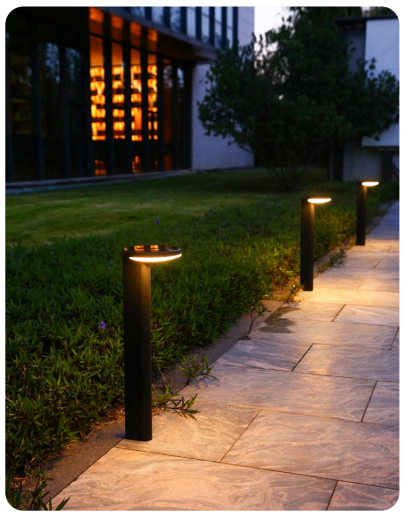
- **Villa gardens and courtyards** — line the path from gate to door at 3–4 m spacing; the 180° distribution lights the paving without throwing light into bedroom windows.
- **Community greenways and residential roads** — higher units on both edges read as a continuous ribbon at night and mark the kerb 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.