E-AblePower Technology

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E-ABLE POWER / SOLAR GARDEN LIGHT / LAWN

Solar Lawn Light CPD 0406

Square Cup · H500 / H700 mm · 2 W · IP65 · 180°

The Square Cup is a H500 / H700 mm garden light that pushes straight into a planting bed, so it needs no plinth and no supply cable. The head carries a 2 W / 5 V monocrystalline panel and a 3.2 V / 3000 mAh LiFePO4 battery, and switches itself on at dusk; a full charge covers 3–5 overcast days.

The housing is ABS with a PC diffuser, sealed to IP65. Light is distributed over 180°, so the fixture reads as a marker along a bed edge rather than as a spotlight: at 2–4 m mounting height it lays a soft pool on the ground and keeps the glow out of windows.

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IP65	2 W	97.41–106.38	3–5	180°	160 × 160
PROTECTION	PANEL	LUMEN	RAINY DAYS	BEAM	HEAD, MM

KEY FEATURES

01

ABS body with PC lens
Impact-resistant polymer housing for lawn and border use.

Monocrystalline panel
2 W / 5 V panel in the head; charges in overcast weather.

LiFePO4 battery
3.2 V / 3000 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.

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

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
CPD-0406 / H500	H500 mm	2 W	Ground spike	160 × 160 mm
CPD-0406 / H700	H700 mm	2 W	Ground spike	160 × 160 mm

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TECHNICAL DATA

Values are transcribed from the supplier parameter table for CPD-0406. The body is thick pressed ABS with a PC diffuser; the pole sections screw together and the 150 mm spike is supplied with every lamp. Packing is quoted per inner box of one unit and per outer carton of ten.

Item	H500 mm	H700 mm
Electrical		
Rated power	2 W	2 W
Input voltage	DC 3.2 V	DC 3.2 V
Solar panel	2 W / 5 V monocrystalline	2 W / 5 V monocrystalline
Battery	3.2 V / 3000 mAh LiFePO4	3.2 V / 3000 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, 16 pcs	2835 SMD LED, 16 pcs
Luminous flux	97.41 lm (3000K) / 106.38 lm (6500K)	97.41 lm (3000K) / 106.38 lm (6500K)
Colour temperature	3000K – 6500K	3000K – 6500K
CRI (Ra)	> 80	> 80
Beam angle	180°	180°
Construction		
Material	ABS + PC	ABS + PC
Lamp colour	Black (other colours on request)	Black (other colours on request)
Head size	160 × 160 mm	160 × 160 mm
Overall size	160 × 160 × H500 mm	160 × 160 × H700 mm
Net weight	0.54 kg	0.54 kg
Mounting	Ground spike	Ground spike
Operating		
Protection	IP65	IP65
Operating temperature	−25 to +50 °C	−25 to +50 °C
Humidity	10–90 %	10–90 %
Installation height	2–4 m	2–4 m
Warranty	2 years	2 years
Certifications	CE, RoHS, IP65	CE, RoHS, IP65
Packing		
Inner box	1 pc, 220 × 163 × 190 mm	1 pc, 220 × 163 × 190 mm
Outer carton	10 pcs, 830 × 455 × 210 mm	10 pcs, 830 × 455 × 210 mm
Gross weight	8.28 kg (outer, 10 pcs)	8.28 kg (outer, 10 pcs)

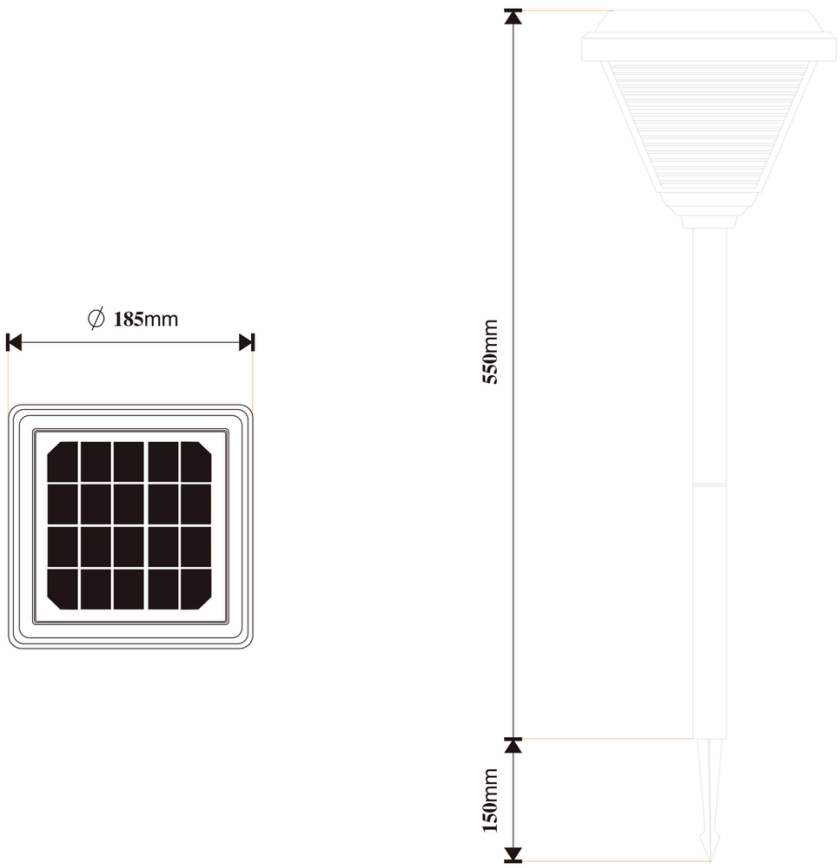
NOTES

- 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

03



CPD-0406 · H700 body 550 mm plus a 150 mm spike

Overall height is given with the 150 mm spike fitted: a 350 mm body gives H500, a 550 mm body gives H700. The head measures 160 × 160 mm; the drawing is the supplier artwork.

The luminaire is supplied with a ground spike: it pushes into soil or mulch and needs no plinth, no concrete and no cable. Set the spike to two-thirds of its length so the head stays stable in wind.

INSTALLATION SEQUENCE

- **1 · Set out the line.** Mark centres at 2–4 m along a bed edge, keeping 0.3 m clear of the paving so the head does not overhang the walkway.
- **2 · Drive the spike.** Push the spike into moist soil to two-thirds of its length; on compacted ground, make a pilot hole first rather than hammering the body.
- **3 · Check the head.** Confirm the head is level and the panel faces the noon sun; the sensor window must not be shaded by planting.
- **4 · Commission.** Press the switch and wait 3 s; the lamp lights only in darkness. A full charge takes one clear day.

SUPPLIED BY E-ABLE

- Luminaire head with integrated panel and battery
- Ground spike
- Fixing screws

BY THE PROJECT

- Paving or soil to receive the spike
- Clearance from irrigation lines

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CONSTRUCTION

04



BUILD AND MATERIALS

Construction	
Light source	2835 SMD LED, 16 pcs, rated 80 000–100 000 h
Diffuser	PC translucent diffuser, even distribution
Body	ABS housing with a PC diffuser
Solar panel	Monocrystalline 2 W / 5 V, integrated in the head
Battery	LiFePO4 3.2 V / 3000 mAh, more than 2 000 cycles
Control	Dusk-to-dawn sensor, PWM controller, waterproof push switch

The 180° distribution throws the light onto the ground at the foot of the fixture rather than into the bed. The switch sits behind the diffuser: press it once and allow 3 s, and the lamp lights only after the sensor reads darkness.

WHAT TO SPECIFY

- **Height.** H500 / H700 mm covers border and path-edge use; taller heads clear ground cover and low shrubs.
- **Light colour.** 3000K – 6500K: 3000K for warm residential beds, 6500K where a cooler, brighter edge is wanted.
- **Spacing.** 2–4 m along a bed edge; wider spacing reads as accent points rather than a continuous line.

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APPLICATIONS

05

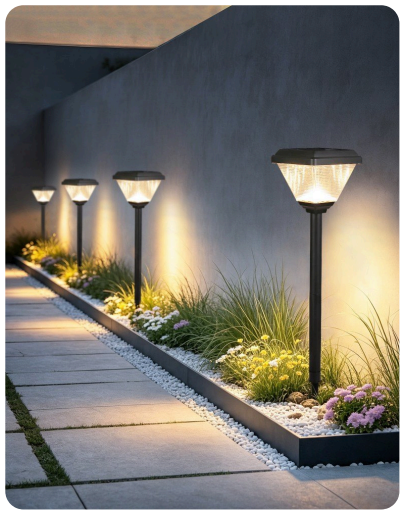
A H500 / H700 mm spike light is a **marker**, not a floodlight: it draws the edge of a bed or the line of a path so people read the route at night. The five settings below are the ones this model is ordered for most often.

WHERE IT FITS

- **Villa gardens and planting beds** — one unit every 2–4 m along the bed edge; the spike needs no plinth, so beds can be replanted without moving the light.
- **Path edges and stepping-stone walks** — keep the head 0.3 m clear of the paving so the light washes the stones instead of shining into the eyes.
- **Community green strips** — repeat in pairs at entrances and at path junctions, where a single unit is not enough to mark the change of direction.
- **Hotel and resort landscaping** — the housing is decorative by day, so units can be placed inside planting rather than along the kerb.
- **Municipal parks and footpaths** — solar units avoid trenching and cable joints; 3–5 overcast days of autonomy covers most temperate sites.











Selection note: 2–4 m spacing for path edges, 4–6 m for accent groups; keep the panel facing the noon sun and clear of ground cover that will grow over it.

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