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SOLAR LIGHT

Solar Street Light

All-in-one solar street light — high-lumen LED, LiFePO4, PIR smart control, IP66

21600 lm UP TO BRIGHTNESS

5 days RAINY-DAY BACKUP

- **All-in-one** — panel + battery + LED
- **180 lm/W** — high-efficacy LED
- **PIR smart** — motion + dusk-to-dawn
- **LiFePO4 · IP66** — 50 000 h life

Bright, efficient light

- High-efficacy LED up to 180 lm/W — up to 21 600 lm for wide, even road coverage
- Asymmetric street optic; 3000K / 4000K / 5700K selectable colour temperature
- 50 000-hour LED lifespan

Smart & autonomous

- PIR motion + dusk-to-dawn sensor: full light on movement, dims to save power otherwise
- Monocrystalline panel + LiFePO4 battery — 3 to 5 rainy-day autonomy
- MPPT charging fully recharges in 5–6 h of sun

Built for the road

- IP66 die-cast aluminium housing, PC lens, anti-corrosion
- Tool-light pole mounting (4–12 m), no trenching or grid connection
- 3-year warranty (5-year option)

Key specifications

Type	**All-in-one solar street light**
LED power	**30 – 120 W**
Luminous flux	**up to 21 600 lm**
Efficacy	**180 lm/W**
Battery	**LiFePO4**
Backup	**3 – 5 rainy days**
Ingress	**IP66**
Warranty	**3 yr (5 opt.)**

PERFORMANCE

WHY COTECH

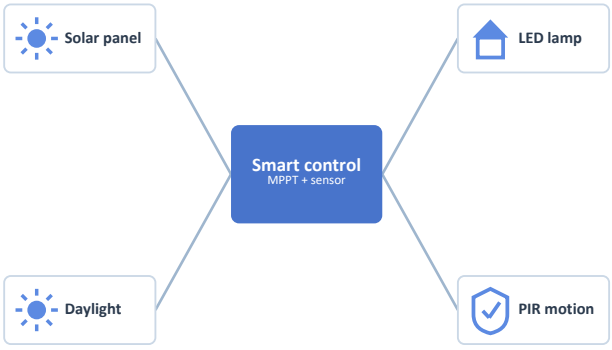
Aged & lumen-tested
Every fixture burn-in & photometry checked

IDEAL FOR

- Roads / streets
- Parking lots
- Pathways
- Perimeter
- Yards & campuses
- Rural / off-grid

APPLICATIONS

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP66 · ISO 9001 · FCC

Lumens, runtime & backup at full charge, 25 °C. Specifications subject to change.

Solar Street Light — specifications

Model	CS-30	CS-60	CS-90	CS-120
Light source				
LED power	**30 W**	**60 W**	**90 W**	**120 W**
Luminous flux	**5400 lm**	**10800 lm**	**16200 lm**	**21600 lm**
Luminous efficacy	180 lm/W			
Colour temperature	3000K / 4000K / 5700K (selectable)			
LED lifespan	50 000 h			
Solar & battery				
Solar panel	**Mono 40 W**	**Mono 70 W**	**Mono 100 W**	**Mono 130 W**
Battery	**LiFePO4 12.8V 12Ah**	**12.8V 22Ah**	**12.8V 32Ah**	**12.8V 40Ah**
Charge time	5 – 6 h (full sun)			
Backup (autonomy)	3 – 5 rainy days			
Control & build				
Smart control	PIR motion + dusk-to-dawn light sensor, dimmable			
Ingress protection	IP66			
Housing	Die-cast aluminium + PC lens			
Recommended pole	**4–6 m**	**6–8 m**	**8–10 m**	**10–12 m**
Operating temp / warranty	−20 ~ +60 °C · 3 years (5-yr option)			

MECHANICAL & SYSTEM

Mechanical	Data
LED lifespan	**50 000 h**
Battery	**LiFePO4 (long-life)**
Control	**PIR motion + dusk-to-dawn, dimmable**
Ingress protection	**IP66**
Housing	**Die-cast aluminium + PC lens**
Warranty	**3 years (5-year option)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **CE · IEC** certified

IDEAL FOR

- Roads / streets
- Parking lots
- Pathways
- Perimeter
- Yards & campuses
- Rural / off-grid

Light up the night — zero wiring, zero bills.

All-in-one solar lights: LiFePO4, high-efficacy LED & PIR smart control, from a Top-50 maker.

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20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **High-efficacy LED** — up to 180 lm/W
- **PIR smart control** — dusk-to-dawn + motion dimming
- **LiFePO4 · 50 000 h** — long life, low maintenance
- **Install in minutes** — no trenching, no grid

50 000 h	LiFePO4	IP66	PIR
LED life	battery	all-weather	smart sensor

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SOLAR LIGHT

Solar Wall Light

Solar wall & security light — motion-sensing, warm or cool light for walls, paths & yards

1500 lm UP TO BRIGHTNESS

12 h UP TO RUNTIME

- **Wall-mount** — security & accent
- **Motion sensor** — PIR auto-on
- **Warm / cool** — 3000K – 6000K
- **LiFePO4 · IP65** — all-weather

Security & ambience

- PIR motion sensor brightens instantly when someone approaches
- Up-and-down or wide wash optics for walls, fences, gardens & entrances
- Selectable warm (3000K) to cool (6000K) light

Truly wireless

- Integrated monocrystalline panel + LiFePO4 battery — up to 12 h per night
- Auto dusk-to-dawn on/off; no wiring, no electrician
- Peel-and-stick or screw mount in minutes

Weatherproof & lasting

- IP65 aluminium / ABS housing for year-round outdoor use
- 50 000-hour LED, low-maintenance LiFePO4
- 2-year warranty

Key specifications

Type	**Solar wall / security light**
LED power	**6 – 15 W**
Luminous flux	**up to 1500 lm**
Sensor	**PIR motion + light**
Battery	**LiFePO4**
Runtime	**up to 12 h**
Ingress	**IP65**
Warranty	**2 years**

PERFORMANCE

Luminous flux		**up to 1500 lm**
Efficacy		**170 lm/W**
Runtime / night		**up to 12 h**
LED lifespan		**50 000 h**

WHY COTECH

Aged & lumen-tested
Every fixture burn-in & photometry checked

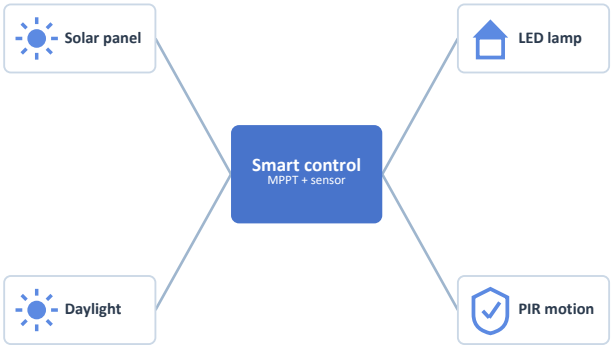
IDEAL FOR

- House walls
- Entrances
- Garages
- Fences
- Pathways
- Gardens

APPLICATIONS

House · Entrance · Garden · Path

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP66 · ISO 9001 · FCC

Lumens, runtime & backup at full charge, 25 °C. Specifications subject to change.

Solar Wall Light — specifications

Model	CSY-06	CSY-10	CSY-15
Light source			
LED power	**6 W**	**10 W**	**15 W**
Luminous flux	**600 lm**	**1000 lm**	**1500 lm**
Luminous efficacy		170 lm/W	
Colour temperature		3000K – 6000K	
LED lifespan		50 000 h	
Solar & battery			
Solar panel		Integrated monocrystalline	
Battery	**LiFePO4 3.2V 2Ah**	**3.2V 3Ah**	**3.2V 4Ah**
Runtime		up to 12 h per night	
Charge time		6 – 8 h (full sun)	
Control & build			
Smart control		PIR motion + dusk-to-dawn, multi-mode	
Ingress protection		IP65	
Housing		Aluminium / ABS, anti-UV	
Mounting		Screw or adhesive, wall	
Warranty		2 years	

MECHANICAL & SYSTEM

Mechanical	Data
LED lifespan	**50 000 h**
Battery	**LiFePO4 (long-life)**
Control	**PIR motion + dusk-to-dawn, dimmable**
Ingress protection	**IP66**
Housing	**Die-cast aluminium + PC lens**
Warranty	**3 years (5-year option)**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **CE · IEC** certified

IDEAL FOR

- House walls
- Entrances
- Garages
- Fences
- Pathways
- Gardens

Light up the night — zero wiring, zero bills.

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- **High-efficacy LED** — up to 180 lm/W
- **PIR smart control** — dusk-to-dawn + motion dimming
- **LiFePO4 · 50 000 h** — long life, low maintenance
- **Install in minutes** — no trenching, no grid

50 000 h LED life · **LiFePO4** battery · **IP66** all-weather · **PIR** smart sensor

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SOLAR LIGHT

Solar Garden Light

Solar garden & landscape light — spike spots and bollards to light paths, trees & lawns

600 lm UP TO BRIGHTNESS

10 h UP TO RUNTIME

- **Spike / bollard** — landscape lighting
- **Warm glow** — 2700K – 6000K
- **Dusk-to-dawn** — auto on/off
- **LiFePO4 · IP65** — all-weather

Beautiful landscapes

- Spike spotlights & bollards to wash trees, beds, paths & features
- Warm 2700K accent to cool 6000K task light
- Adjustable head & angle on spike models

Set and forget

- Integrated mono panel + LiFePO4 battery, dusk-to-dawn auto on/off
- Up to 10 h of light per charge; no wiring at all
- Push into the ground — installed in seconds

Durable outdoors

- IP65 weatherproof housing for rain, frost & sun
- 50 000-hour LED, replaceable LiFePO4
- 2-year warranty

Key specifications

Type	**Solar garden / landscape**
LED power	**3 – 6 W**
Luminous flux	**up to 600 lm**
Colour temp	**2700K – 6000K**
Battery	**LiFePO4**
Runtime	**up to 10 h**
Ingress	**IP65**
Warranty	**2 years**

PERFORMANCE

Luminous flux		**up to 600 lm**
Efficacy		**150 lm/W**
Runtime / night		**up to 10 h**
LED lifespan		**50 000 h**

WHY COTECH

Aged & lumen-tested
Every fixture burn-in & photometry checked

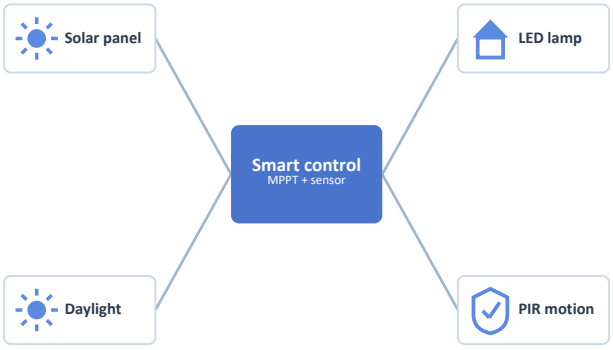
IDEAL FOR

- Pathways
- Flower beds
- Trees / features
- Lawns
- Driveways
- Patios

APPLICATIONS

Garden · Patio · Path · Resort

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP66 · ISO 9001 · FCC

Lumens, runtime & backup at full charge, 25 °C. Specifications subject to change.

Solar Garden Light — specifications

Model	Spike-3	Spike-6	Bollard-6
Light source			
LED power	**3 W**	**6 W**	**6 W**
Luminous flux	**300 lm**	**600 lm**	**550 lm**
Colour temperature		2700K – 6000K	
Form	**Spike spotlight**	**Spike spotlight**	**Bollard**
LED lifespan		50 000 h	
Solar & battery			
Solar panel		Integrated monocrystalline	
Battery		LiFePO4 3.2V (replaceable)	
Runtime		up to 10 h per night	
Control		Dusk-to-dawn auto on/off	
Build			
Ingress protection		IP65	
Housing		Aluminium / ABS, anti-UV	
Mounting		Ground spike / surface	
Warranty		2 years	

MECHANICAL & SYSTEM

Mechanical	Data
LED lifespan	**50 000 h**
Battery	**LiFePO4 (long-life)**
Control	**PIR motion + dusk-to-dawn, dimmable**
Ingress protection	**IP66**
Housing	**Die-cast aluminium + PC lens**
Warranty	**3 years (5-year option)**

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IDEAL FOR

- Pathways
- Flower beds
- Trees / features
- Lawns
- Driveways
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- **Install in minutes** — no trenching, no grid

50 000 h LED life · **LiFePO4** battery · **IP66** all-weather · **PIR** smart sensor

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SOLAR LIGHT

Solar Lighting System

Plug-and-play solar home lighting kits — bulbs, battery & panel in a box, with USB phone charging

47 h UP TO RUNTIME

4 lamps PER KIT UP TO

- **All-in-one kit** — panel + battery + bulbs
- **USB charging** — keeps phones alive
- **LiFePO4 options** — 2000+ cycles
- **Remote control** — from the bed or chair

Light where there is no grid

- Complete kit: solar panel, battery pack, 1 – 4 LED lamps, hanging hooks & wiring
- Lights cabins, village homes, market stalls, tents & camps — no electrician needed
- Up to 47 h of light from one charge (eco mode)

More than light

- USB output charges phones, radios & power banks
- Remote control on/off from anywhere in the room
- Pendant & bulb options, 6000 – 7000 K bright white

Honest, durable batteries

- LiFePO4 power-box versions: 2000+ cycles, display & multiple USB ports
- Li-ion bulb kits for the lightest budgets
- 5 – 6 h solar charge; 3-year warranty

Key specifications

Kit contents	**Panel + battery + LED lamps**
Lamps per kit	**1 – 4**
Solar panel	**Mono 5.5 – 40 W**
Battery	**Li-ion / LiFePO4 up to 20 Ah**
Runtime	**5 – 47 h per charge**
Phone charging	**USB output**
Control	**RF remote / power box**
Warranty	**3 years**

PERFORMANCE

Runtime		**up to 47 h**
Lamps		**up to 4 per kit**
Solar input		**5.5 – 40 W**
Battery life		**LiFePO4 2000+ cyc**

WHY COTECH

Aged & lumen-tested
Every fixture burn-in & photometry checked

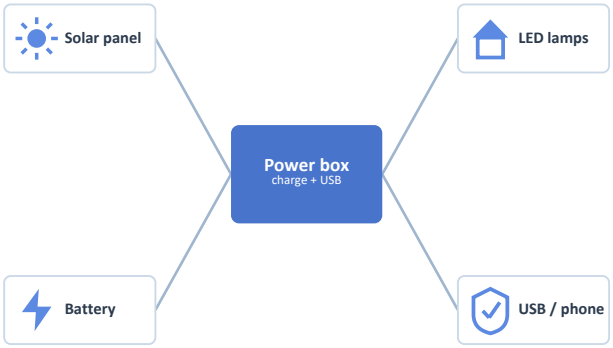
IDEAL FOR

- Off-grid homes
- Camping / glamping
- Market stalls
- Garages & sheds
- Power cuts
- Farm buildings

APPLICATIONS

Homes · Camping · Stalls · Farms

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP66 · ISO 9001 · FCC

Lumens, runtime & backup at full charge, 25 °C. Specifications subject to change.

Solar Lighting System — kit specifications

Model	CSY-1009-2	CSY-1007-4	CSY-1013	CSY-1013A
Kit & light				
LED lamps	2 bulbs (16-LED 5730)	4 bulbs (20-LED 5730)	4 × 2 W LED bulbs	4 × 5 W LED pendants
Colour temperature	6000 – 7000 K bright white			
Lamp size	Ø8 × 13 cm	Ø12 × 18 cm	bulb	pendant
Control	RF remote	RF remote	Power-box switches + display	Power-box + remote
Power				
Solar panel	Mono 5.5 W / 5 V	Mono 20 W / 11 V	Mono 20 W / 5 V	Mono 40 W / 10 V
Battery	Li-ion 2×3.7 V 2500 mAh	Li-ion 4×7.4 V 2500 mAh	LiFePO4 3.2 V / 20 Ah	LiFePO4 6.4 V / 20 Ah
Charge time	5 – 6 h	5 – 9 h	4 – 6 h	4 – 6 h
Runtime per charge	5 – 8 h	5 – 47 h	5 – 14 h	5 – 14 h
USB phone charging	USB wire	USB wire	USB ports (power box)	USB ports (power box)
Power box size	—	—	20.2×8.2×15.5 cm	20.2×8.2×15.5 cm
Warranty	3 years			

MECHANICAL & SYSTEM

Mechanical	Data
LED lifespan	50 000 h
Battery	LiFePO4 (long-life)
Control	PIR motion + dusk-to-dawn, dimmable
Ingress protection	IP66
Housing	Die-cast aluminium + PC lens
Warranty	3 years (5-year option)

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