

PRODUCT CATALOG 2026

Street Lighting & PV Mounting Structures

Solar street lights, LED street lights, steel poles, high-mast lighting and solar mounting structures, manufactured at our production base in Kunming, Yunnan, China.

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One production base, two product lines

Solmast manufactures street lighting and solar mounting structures for EPC contractors, distributors and public projects. Steel is cut, formed, welded and galvanized or coated in our own workshops near Kunming. LED luminaires are assembled and aged on our own line. Every product can be modified or designed to your drawing, and branded as your own.

100,000 t Annual structure capacity	11 Automated profile lines	33,000 m² Structure workshops	15 m Poles formed in one pass
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Structures plant

Workshop area	Approx. 33,000 m ²
Lines	11 automated mounting-profile lines
Galvanizing	In-house hot-dip line, 400 t zinc kettle
Equipment	Laser cutting, CNC drilling, cold roll-forming, robotic welding

Lighting plant

Site area	Approx. 8,000 m ² , 100+ staff
Poles	Large press brake, up to 15 m in one pass
Welding & finish	Submerged-arc, argon-arc and CO ₂ welding, straightening, powder coating
Luminaires	Assembly line, aging racks, environmental test chamber



Factory-direct

Quotes built on production cost. FOB, CIF or DAP.

Custom & OEM

Any design, your brand on products, packaging and documents.

Inspect anytime

Factory visits, live video tours and third-party inspection welcome.

Solar street light systems



SPLIT TYPE

Solar panel, battery, controller and LED head are configured as one system on our steel pole. Each system is sized to the site's solar irradiation and the number of rainy days it must run through.

Configuration	Split type: panel and battery separate from the LED head
LED head	LSD series (see next page)
Pole	Steel, formed and welded in-house; height to project
Arm styles	Single, double, decorative, or custom
Panel, battery, autonomy	Sized per project

Free system design: send us

- ✓ Project location (for solar irradiation)
- ✓ Road type and width, pole spacing and height
- ✓ Lighting hours and required lux or lighting class
- ✓ Rainy-day backup required, and quantity

We return LED power, panel, battery, pole height and spacing with a price, usually within 2 working days.

LED street lights, LSD series, 30–400 W

For mains-powered roads, or as the light source in our solar systems. Light distribution curves and dimension drawings available on request.



LSD-C01 · 60–240 W



LSD-C02 · 30–360 W



LSD-C03 · 180–400 W



LSD-C04 · 150–300 W



LSD-C05 · 60–180 W



LSD-C06 · 90–300 W



LSD-C07 · 60–200 W

C01, C03–C07 common data

Input voltage	AC 95–305 V, 50–60 Hz
Luminous efficacy	130–150 lm/W
Power factor	> 0.95
Driver efficiency	> 92 %
Colour temperature	3000–6000 K
CRI	Ra > 75
Ingress protection	IP68 (design)

LSD-C02 modular

Power / flux	30–360 W, 3,300–39,600 lm (110 lm/W)
Input / PF	AC 100–240 V, PF > 0.97
CCT / CRI	2700–6500 K, CRI 70/75/80
Operating range	–45 to +50 °C, 10–90 % RH
Rated life / IP	> 50,000 h, IP68 (design)

Power & dimensions

Model	Power	L × W × H (mm)
LSD-C01	60–240 W	900 × 380 × 232
LSD-C02	30–360 W	435–835 × 370 × 110
LSD-C03	180–400 W	1350 × 400 × 260
LSD-C04	150–300 W	1060 × 380 × 260
LSD-C05	60–180 W	780–875 × 360–370 × 240
LSD-C06	90–300 W	1060 × 380 × 260
LSD-C07	60–200 W	900 × 380 × 200

Custom luminaires

Housing, power, optics, CCT, colour and branding can be specified. Decorative and landmark designs on request.

Steel lighting poles

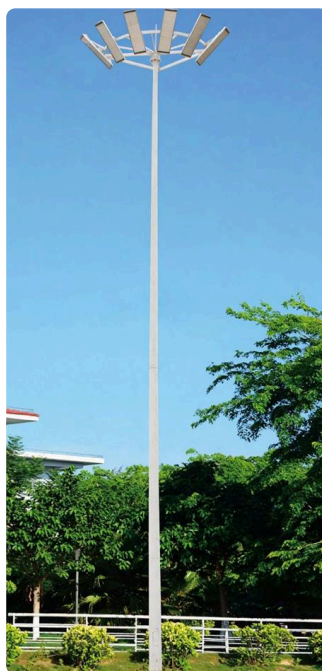
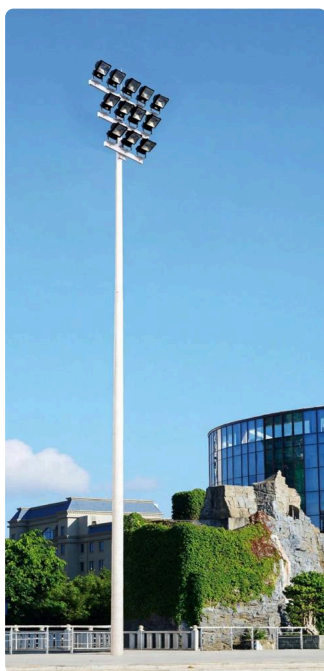
Large press brakes form steel poles up to 15 m in a single pass. Base flanges and arms are welded in-house, and every pole is finished on our own coating line.

- ✓ Octagonal and round sections
- ✓ Single, double and decorative arms, or fully custom designs
- ✓ Height, wall thickness and flange to your drawing or local standard
- ✓ Colour to your specification, OEM marking



High-mast lighting

For interchanges, ports, logistics yards, sports grounds and public squares. Ring crowns or multi-tier floodlight frames, configured to the area to be lit.



Fixed ground-mount systems



The simplest and most cost-effective structure. More than 70 design variants cover flat land, hillsides, farmland, tidal flats and water surfaces, for all common module sizes.

Design standards	Chinese GB, US, European, Japanese
Wind, snow, tilt	Designed per project
Terrain slope	Up to 30° N-S, 20° E-W
Material	Carbon steel; HDG, Zn-Al-Mg or pre-galvanized
Profiles	Cold-formed C, U, hat; round and rectangular tube; H-beam
Foundations	Steel pile, PHC pile, cast-in-place pile, footing
Design life	25 years

To quote a mounting project, send us

- ✓ Capacity (MW) and site layout
- ✓ Module dimensions and weight, portrait or landscape
- ✓ Wind speed, snow load, seismic zone, soil report
- ✓ Incoterm, destination port and schedule

Adjustable-tilt



Linked scissor jacks raise or lower a whole row from one point. Tilt follows the seasons for higher yield, without the cost of a tracker.

Steel weight	Approx. 35 t per MW
Adjustment	Manual or powered; no bolts to loosen; one person adjusts at least 5 MW/day
Drive tool	Battery lasts a full working day
Screw rods	Hot-dip galvanized, rated rust-free for 25 years

Rooftop & distributed



Pitched and flat roofs, carports and commercial buildings, with up-front design including a structural check of the building.

Roof types	Metal sheet, concrete flat, residential, commercial
Fixing	Roof clamps; concrete ballast
Material	Carbon steel, Zn-Al-Mg, pre-galvanized or aluminium alloy
Design life	25 years



Single-axis tracker



- ✓ Smart tracking algorithm, around 2 % additional yield
- ✓ Independently controlled, interlocked drives
- ✓ Spherical bearings follow slopes up to 15 %
- ✓ Multi-point support for structural stability
- ✓ Tracking range up to $\pm 60^\circ$ (optional)

Flexible cable



Pre-tensioned steel cables carry modules high above the ground, for agrivoltaic and fishery-PV projects.

Span	Up to approx. 40 m
Piles	As few as 94 per MW
Wind resistance	Double-cable lower layer, flared tension structure
Cost	2–5 % lower investment than conventional elevated structures

Your design. Our factory. Your brand.

Every luminaire, pole and structure can be modified or designed from scratch to your drawing, standard or local style. Lead time depends on the design and is confirmed in the quote.

1. Brief

Drawing, photo, sketch or tender spec.

2. Design & quote

Drawings or proposal, price and lead time.

3. Sample

Prototype for approval, with photos and video.

4. Production

Photo updates, pre-shipment inspection, loading.

PROJECT REFERENCES

Structures supplied to 1,500 MW

Utility-scale PV plant	Capacity	Utility-scale PV plant	Capacity
Puli Chong, Yuanjiang, Yunnan	100 MW	Tuantian, Yuanjiang, Yunnan	80 MW
Ganba, Yuanjiang, Yunnan	50 MW	Hailahai, Jinyuan, Guizhou	200 MW
Matang Village, Yao'an, Yunnan	180 MW	Sa'gya County, Tibet	100 MW
Jiaojia Village, Dongchuan, Yunnan	180 MW	Malutan, Luquan, Yunnan	120 MW
Matou Village, Yimen, Yunnan	50 MW	Dadi, Huaning, Yunnan	50 MW
Xiaojiashan, Binchuan, Yunnan	180 MW	Daheitu, Mile, Yunnan	210 MW

Street lighting supplied across Yunnan, Sichuan and Guizhou, and exported to Southeast Asia.

CONTACT

Send us your project.

A BOQ, a drawing, or just the road length and plant size. We reply within one working day with questions, a configuration or a price.

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Production base	Kunming, Yunnan, China
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