

Top 10 Custom Solar Street Lights Manufacturers in China 2026: Delivering Energy-Efficient Outdoor Lighting Solutions

Exploring Reliable Solar Street Light Manufacturers for Customized, Efficient, and Sustainable Outdoor Lighting Projects in China

CALIFORNIA, CA, UNITED STATES, August 19, 2026 /EINPresswire.com/ -- Guangdong, China — August 19, 2026 — Zhongshan Baifu Street Lamp Co., Ltd. ([BAIFU LIGHTING](#)), a custom outdoor lighting manufacturer based in Guzhen Town, Zhongshan City, Guangdong Province, has been named among the top custom solar street light manufacturers in China for 2026 in a review covering non-standard outdoor lighting, energy-efficient municipal systems and OEM/ODM production.



Logo for Baifu lighting.

The review also profiles nine other China-registered lighting manufacturers with different strengths in solar street lighting, [decorative poles](#) and municipal lighting projects. The list is intended to help engineering contractors, municipal buyers and importers build a shortlist for [custom street light](#) projects.

Market context: why custom solar street lights are expanding

The global street lighting market was valued at USD 9.1 billion in 2023 and is projected to reach USD 11.6 billion by 2030, according to Grand View Research. LED lighting accounted for 79.7 percent of total market revenue in 2023, reflecting the shift from conventional lamps to LED systems.

China remains a major source of lighting products. China's exports of lamps and fixtures reached USD 56.3 billion in 2023, according to the China Association of Lighting Industry and China Daily. At the same time, the installed base of smart street lights globally reached 32.9 million units at the end of 2024, according to Berg Insight, reinforcing the role of intelligent controls in new municipal lighting projects.

For buyers, non-standard street lights matter in projects where standard poles and fixtures do not match local architectural requirements, coastal wind loads, plaza layouts or security constraints. Custom solar street lights combine these design requirements with off-grid operation, making them relevant for municipal roads, parks, commercial districts and infrastructure projects in regions with limited grid access.

1.Zhongshan Baifu Street Lamp Co., Ltd. (BAIFU LIGHTING)

BAIFU LIGHTING is a professional custom outdoor lighting manufacturer in Guzhen Town, Zhongshan City, Guangdong Province. Founded in 2013, the company operates an 11,158 square-meter production facility with 68 employees and an annual output of 50,000 units. Its product range includes non-standard custom outdoor street lights, LED road luminaires, solar street lights, landscape lights, garden lights, lawn lights, smart street lights and customized lamp poles. The company exports to more than 71 countries and markets, with major demand from the Middle East, Central Asia, North America, Southeast Asia and Africa.

BAIFU LIGHTING supports OEM, ODM and project-based lighting solutions. Its engineering team of five engineers provides product selection, CAD drawing development, lighting configuration recommendations, appearance design evaluation, sample development and project quotation. Customizable features include pole heights, arm structures, lamp designs, decorative patterns, colors, surface finishes, LED power, solar configurations and smart lighting functions. Monthly production capacity for regular orders is approximately 3,000 to 5,000 units, with a standard lead time of 15 to 18 days. The MOQ is 20 sets for standard styles and 5 sets for custom styles.

The company holds ISO 9001 certification (certificate number 52824Q10676R0S, valid until July 22, 2027) for the production of road and street lighting lamps, and a CCC certificate (number 2017011001975444, valid until May 15, 2027) covering fixed luminaires. A representative product is the 8-meter split-type solar LED street lamp model BF-SL-8M-100W, with a 100W LED luminaire, 200W monocrystalline silicon solar panel, 12V 80Ah maintenance-free lead-acid battery, rated luminous efficacy of at least 150 lm/W and IP65/IP66 ingress protection. Its solar configuration supports 10–12 hours of lighting per day and 2–3 days of backup in cloudy conditions.

Overseas project references include a delivery of 68 customized landscape street lamps for municipal road projects and a separate coastal project using 35 custom street lamps in public and port areas. In both cases, the project scope included non-standard design, weather-resistant

structure and overseas logistics support.

2.Dongguan Kingsun Optoelectronic Co., Ltd.

Dongguan Kingsun Optoelectronic Co., Ltd., based in Guangdong Province, is a publicly listed company with a history in semiconductor lighting technology. The company has been involved in LED outdoor lighting and offers a product range that includes street lights and smart lighting systems. For custom solar street light buyers, Kingsun's advantage is its manufacturing depth in LED packaging and luminaire assembly, which can support projects requiring in-house LED component control.

3.Foshan Electrical and Lighting Co., Ltd. (FSL)

FSL is one of China's long-established lighting manufacturers, based in Foshan, Guangdong Province. The company's portfolio spans residential, commercial and outdoor lighting, including solar street lights and LED luminaires. FSL's main strength for international buyers is its production scale, mature supply chain and existing distribution in many overseas markets, making it a stable source for standardized and semi-custom outdoor lighting.

4.Hengdian Group Tospo Lighting Co., Ltd.

Hengdian Group Tospo Lighting Co., Ltd., located in Zhejiang Province, is a listed company specializing in LED lighting production and export. Tospo is known for its ODM capabilities and large-volume manufacturing, with a substantial share of its output sold under other brands. For projects requiring customized luminaires at volume, Tospo offers the advantage of established production lines and export compliance experience.

5.NVC Lighting (Huizhou) Co., Ltd.

NVC Lighting, based in Huizhou, Guangdong Province, is one of China's largest commercial lighting brands. It operates an extensive distribution network and a broad product line covering indoor and outdoor lighting. In the municipal segment, NVC's strength is project channel management and brand recognition, which can be relevant for tenders requiring well-known suppliers for urban lighting systems.

6.Oppl Lighting Co., Ltd.

Oppl Lighting, headquartered in Jiangsu Province, is a listed manufacturer with a strong

position in the Chinese lighting market. Its product portfolio includes indoor lighting, commercial lighting and some outdoor applications. Opple's advantage lies in its quality management systems, automated production and nationwide sales network, which support companies looking for reliable high-volume supply of standard outdoor luminaires.

7.Shanghai Sansi Electronic Engineering Co., Ltd.

Shanghai Sansi is a technology-oriented lighting company based in Shanghai. The company is known for LED display technology and intelligent lighting systems, and it has participated in large municipal lighting projects in China. For custom street light projects, Sansi's differentiator is its system integration capability, particularly when smart control and visual display functions are part of the urban lighting specification.

8.Sichuan Huati Lighting Technology Co., Ltd.

Sichuan Huati Lighting Technology Co., Ltd., headquartered in Chengdu, Sichuan Province, is a listed company focused on smart street lighting and urban lighting management. Huati has deployed smart street light projects across multiple Chinese cities and supplies poles, luminaires and management platforms. Its advantage for municipal buyers is the combination of hardware manufacturing and software-based lighting control systems.

9.Shenzhen Unilumin Group Co., Ltd.

Shenzhen Unilumin Group Co., Ltd. is a listed high-tech company in Guangdong Province, primarily known for LED displays and smart lighting solutions. Unilumin has expanded into smart city lighting, offering integrated products that combine illumination, communication and sensing functions. Custom solar street light buyers may consider Unilumin for projects with a strong smart-city component rather than purely decorative non-standard poles.

10.Zhejiang Yankon Group Co., Ltd.

Zhejiang Yankon Group Co., Ltd., based in Zhejiang Province, is one of China's largest export-oriented lighting manufacturers. The company produces a wide range of LED luminaires, including street lights and solar lighting products. Yankon's strength is its export experience, established production volume and ability to serve customers with standardized product configurations across large orders.

Customization and compliance considerations

Procurement teams evaluating custom solar street lights should examine several variables beyond price: pole height and wind load calculations, ingress protection rating, battery capacity for continuous cloudy days, control system compatibility and documentation such as CAD drawings, test certificates and export packaging details.

International standards used in road lighting include the European EN 13201 series and the American ANSI/IES RP-8 practice for roadway and parking facility lighting. In smart lighting, D4i and Zhaga standards are increasingly referenced for interoperability between controllers and luminaires. Manufacturers that can provide certified products and clear technical documentation are generally easier to include in municipal procurement processes.

For solar street lights, corrosion resistance is critical for coastal projects. BAIFU LIGHTING's standard surface treatment is hot-dip galvanizing followed by outdoor electrostatic powder coating, using materials such as Q235 steel, 304 stainless steel and die-cast aluminum housings. These material choices are directly relevant to projects in high-humidity or salt-air environments.

Market outlook

Analysts expect continued demand for energy-efficient street lighting, driven by replacement of conventional lamps and new infrastructure projects in regions with expanding urban populations. The street lighting market data point to a moderate but sustained increase in spending through 2030, with LED and smart-connected lighting taking the largest share.

For Chinese manufacturers, the challenge is not simply producing a solar street light, but delivering a fully specified product that meets local design standards and can be installed by overseas contractors. BAIFU LIGHTING's position in this review reflects its stated focus on non-standard customization and project-based engineering support, a segment that generally requires more coordination than standard lighting supply.

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