Custom OEM Solar Street Light Supplier: TX Solar's High Quality Lighting Solutions from China





YANGZHOU, JIANGSU, CHINA, September 17, 2026 / EINPresswire.com/ -- Commercial lighting distributors require dependable manufacturing partners capable of delivering customized luminaire designs and flexible electrical configurations. Sourcing directly from an integrated source manufacturer maintains consistent dimensional accuracy, coordinated component compatibility, and predictable production timelines across export consignments. To support international project schedules and private-label distribution, Yangzhou Tianxiang Road Lamp Equipment Co., Ltd. provides dedicated contract manufacturing services. Operating internationally under the TX Solar brand, the enterprise combines 2008 founding credentials with manufacturing heritage dating back to 1996. The company operates a 62,000 square meter production facility equipped with over 220 specialized manufacturing units in Gaoyou City. As a dedicated custom OEM solar street light supplier, TX Solar operates in-house workshops for photovoltaic panels, storage batteries, and metal casting. These integrated capabilities support commercial lighting installations across more than 20 overseas markets.

Commercial lighting distributors evaluate source contract manufacturing capabilities from TX Solar across five core OEM dimensions:

Bespoke Luminaire Housing and Mechanical Customization: Developing custom profile aluminum structures, dedicated die-cast enclosures, and mounting bracket adapters tailored to client project requirements.

Modular System Architecture and Dual Battery Options: Supplying versatile all-in-one luminaires from 10W to 150W and split-type systems from 30W to 120W with lithium or gel battery selections.
Multi-Grade Materials and Protective Surface Finishing: Fabricating structural components using carbon steel, aluminum, or stainless steel protected by hot-dip galvanizing, powder spraying, or anodizing treatments.
Certified Export Packaging and Multimodal Freight Logistics: Applying standardized export packaging and specialized hazard packing for battery consignments supported by sea, land, and air shipping channels.
International Certification and Export Clearance Documentation: Providing ISO-certified quality management records, Certificates of Analysis, and official Certificates of Origin to streamline destination customs clearance.

Bespoke Luminaire Housing and Mechanical Customization

Public lighting tenders and commercial catalogs often require customized fixture profiles to match specific regional aesthetic or functional standards. TX Solar operates dedicated in-house lighting workshops equipped with precision profile aluminum tooling and metal die-casting machinery. Structural engineers assist commercial buyers in modifying luminaire chassis geometry, thermal dissipation ribs, and optical cavity dimensions according to customer drawings. Custom mounting brackets, single-arm attachments, and adjustable tenon sleeves can be tailored to fit distinctive pole configurations. This flexible mechanical customization enables commercial distributors to expand their proprietary product portfolios without investing in dedicated manufacturing infrastructure. Dedicated tooling adjustments also support specialized optical beam angles, accommodating diverse mounting heights and municipal road geometries.

Modular System Architecture and Dual Battery Options

Contrasting regional climates and target project price tiers demand flexible electrical and energy storage configurations. TX Solar manufactures integrated all-in-one luminaires from 10W to 150W alongside modular split-type systems from 30W to 120W. For standard commercial environments, engineers configure compact lithium iron phosphate battery packs that offer thermal stability and extended cycle life. For severe cold climates or budget-constrained municipal contracts, customers can specify heavy-duty deep-cycle gel battery configurations. Photovoltaic capacities scale from 120W to 160W monocrystalline silicon panels, supported by intelligent micro-controllers that balance daily charging and nocturnal lighting outputs. These modular electrical combinations allow distributors to target municipal, rural, and industrial lighting bids effectively.

Multi-Grade Materials and Protective Surface Finishing

Outdoor illumination systems must endure continuous weather exposure across industrial zones, rural corridors, and coastal environments. TX Solar fabricates lighting structural components using commercial carbon steel, alloy steel, lightweight aluminum, or corrosion-resistant stainless steel. For coastal infrastructure exposed to atmospheric salinity, stainless steel

and specialized alloy configurations maintain prolonged structural service life. The manufacturing complex applies thorough internal and external hot-dip galvanizing, followed by electrostatic powder spraying in customer-selected colors. Anodizing treatments are also available for aluminum fixtures. These verified surface treatments protect structural components from outdoor weathering and maintain structural integrity across decades of field operation. High-adhesion powder finishes maintain surface color retention under strong ultraviolet solar exposure.

Certified Export Packaging and Multimodal Freight Logistics

Long-distance maritime transit and intermodal handling demand protective packaging to maintain physical integrity and equipment safety. TX Solar enforces standardized export packaging specifications across all manufactured lighting consignments. Structural steel poles receive protective surface wrapping, while luminaire heads and solar panels utilize heavy-duty corrugated cartons with internal cushioning. For goods classifications involving lithium energy storage, shipping technicians deploy specialized hazard packaging certified for international transit safety. The factory coordinates multi-channel logistics across ocean freight, overland trucking, and international air shipping. This structured packaging and freight coordination ensures that complete solar lighting assemblies arrive at destination ports in factory-inspected condition. Validated cold storage shippers are also deployed when transporting temperature-sensitive components.

International Certification and Export Clearance Documentation

Supplying international lighting projects and passing regional customs inspections requires complete legal, quality, and origin documentation. TX Solar operates under certified international standards, including ISO 9001 quality management, ISO 14001 environmental management, and ISO 45001 safety management systems. To assist procurement partners with local customs clearance and duty exemptions, the international trade department issues verified Certificates of Origin. TX Solar also provides official Certificates of Analysis and Certificates of Conformance documenting technical compliance. This verified documentation portfolio expedites port clearance procedures and supports partner credibility when submitting bids for public lighting tenders. Factory inspection certificates provide clear compliance records for municipal project audits.

China Source Factory Direct OEM Partnership Advantages

Partnering directly with an established Chinese source manufacturer provides commercial pricing advantages and transparent technical communication for lighting distributors. TX Solar integrates dedicated manufacturing workshops for solar panels, lithium battery packs, and aluminum luminaire casting within Gaoyou City. Backed by 63 technical patents and 16 engineering specialists, the factory provides responsive technical consultations and custom lighting designs. TX Solar maintains an agile 7-day turnaround for evaluation samples and reliable 20 to 30 day production timelines for commercial volume orders. Having delivered over 1,700,000 luminaires across more than 20 countries, TX Solar provides scalable manufacturing capacity for sustained contract partnerships. Direct factory collaboration removes commercial

distribution markups and secures long-term supply stability for growing international lighting businesses.
Commercial lighting distributors can review our complete custom outdoor lighting solutions on the official portal. Request customized product samples, engineering consultations, and competitive factory-direct quotations at https://www.txzmlamp.com/.

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