

sun2light

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sun2light™ solutions solar LED street lighting

by The meeco Group





Overview

The meeco Group's solar street lights are zero-emission solar streetlights and utilize the latest in ultra-efficient LED luminaires. The lamps are extremely low maintenance, rated at over 50,000 hours of reliable, trouble-free operation. They offer a bright natural white light with an impressive color rendering index of better than eighty. These lights are coupled with photovoltaic modules and our intelligent solar lighting controller to make a truly sustainable solution.

Applications

With their long lasting product life and ability to function off of the energy grid, these lights are ideal for nearly an endless list of applications:

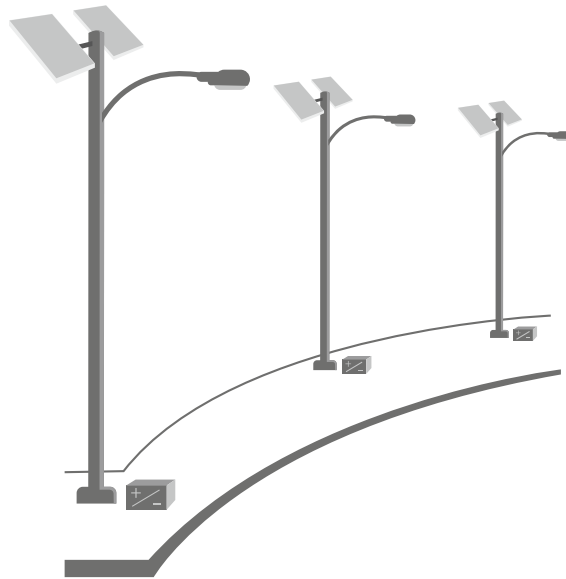
- High mast lighting
- Street lighting
- Highways
- Park lighting
- Parking lot lighting
- Outdoor area lighting
- Shopping malls
- Stadiums
- Golf courses

These lights are also an excellent answer for projects where utility power is not available or trenching or running cable is either not possible or cost prohibitive.

Distributed vs. central

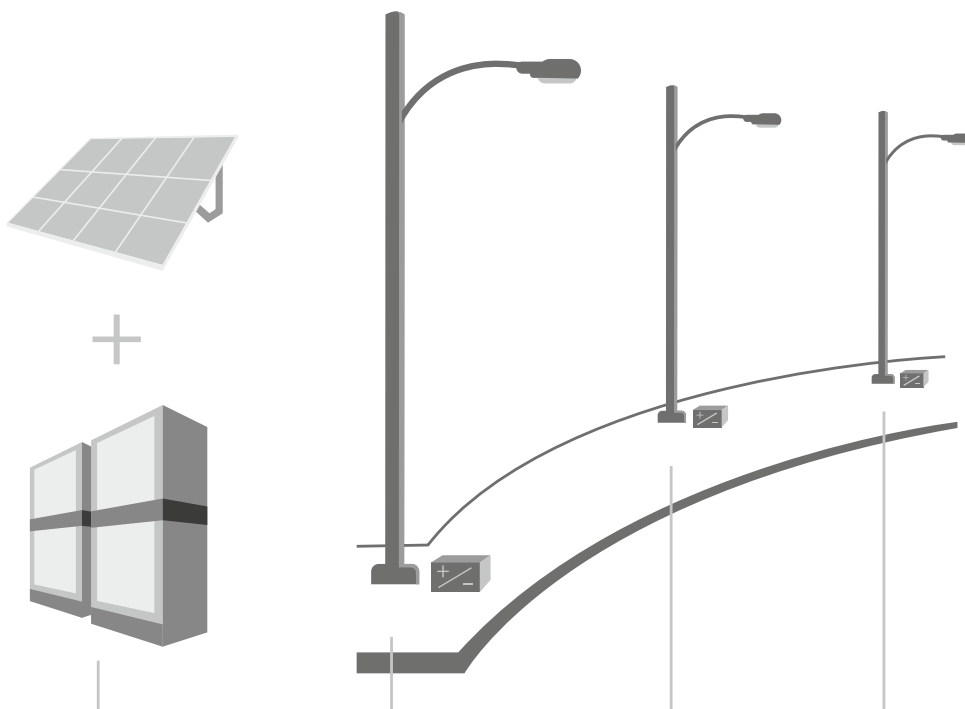
Distributed

- Effective over larger areas
- Lower cable cost/losses
- Simpler cheaply available components.

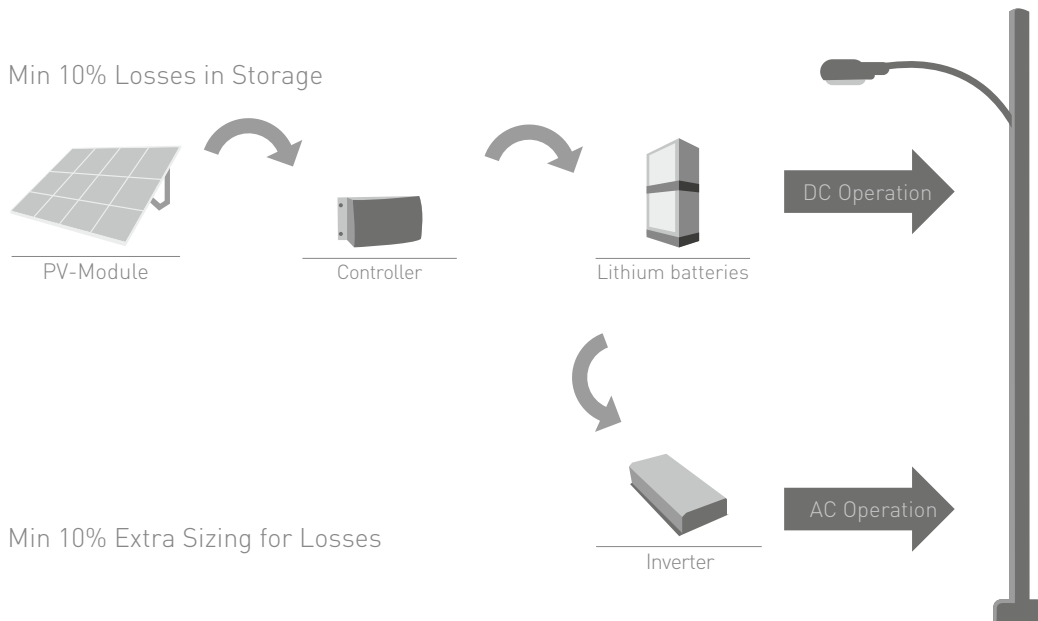


Central

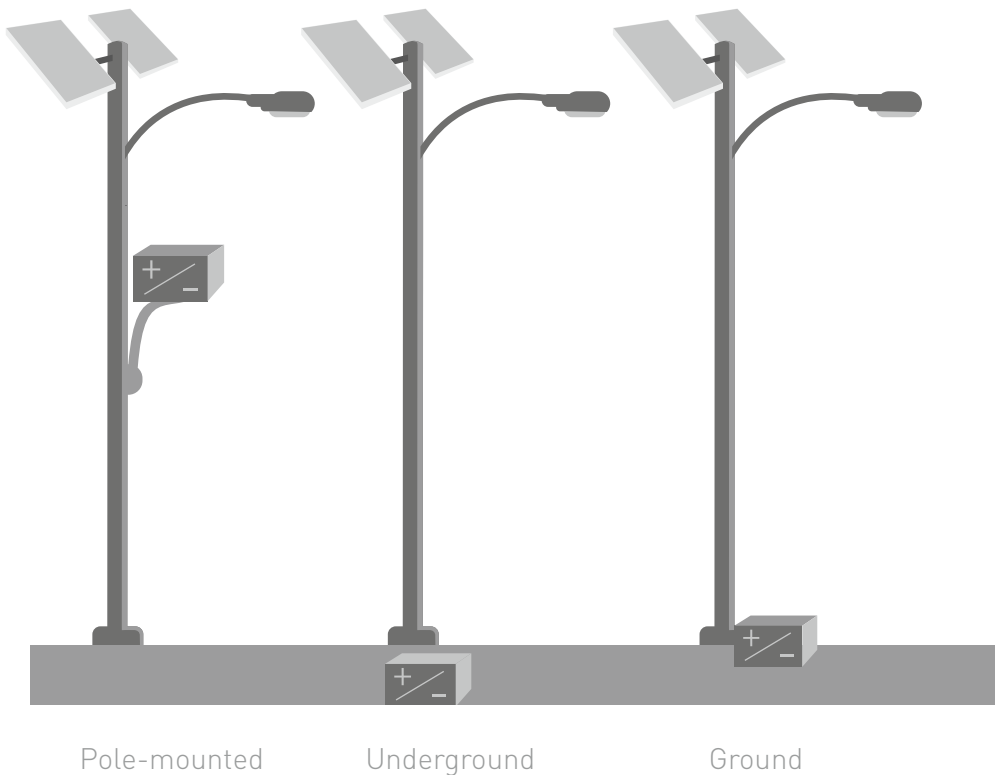
- Effective over a smaller area
- More reliable
- Easier operations and management
- Better overall throughput
- Easier to combine with grid and diesel generator



AC, DC or dual



Pole placement options



Components

Our solar street lights include:

- High powered LED street light fixture
- Street light pole
- Solar module mounting bracket
- Solar module(s)
- Battery bank
- Battery enclosure
- Electrical wiring kit

Our LED lights are environment-friendly, mercury and UV free. The luminaries are highly energy efficient with a power factor > 90% and low lumen depreciation giving a long lifetime.

Outdoor lighting



Indoor lighting



Technical data

▪ Luminaire

Model: LED Bridgelux
Power: 30 W; Voltage: 85-265V
Dimensions (L x W x H): 360 x 175 x 70 mm
Capacity: 3200 Lumen
Beam angle: 120°
Power factor > 0,9; Safety standard: IP65
Colour temp: CW/WW

▪ Pole (with H/w)

Material standards BESN 10025 S 355 J
Galvanization BESN ISO 1461
Height: 6 m

▪ PV Panel(s)

Poly/Mono crystalline with heavy duty anodized aluminum frame
Power: 110 Wp
Weight (approx.): 11 kg

▪ Battery

Nominal voltage 12 V
Rated capacity at 27°: 100 Ah
Dimensions (L x W x H): 557 x 172 x 240 mm
Weight: 44 kg

▪ Charge controller

Programmable, automatic voltage detection
Voltage: 12V(24 V); Current: 10 A
Type: PWM
Dimensions (L x W x H): 145 x 100 x 30 mm

▪ Cable set

4mm DC grade cable with PVC with connectors for battery terminal connectors;

▪ Battery box

GI with Latch
Dimensions (L x W x H): 668.4 x 206.4 x 288 mm





About The meeco Group

As a leader in clean renewable energy, meeco™ has provided clients with services and solutions for over 320 MW across three continents.

We work behind the scenes with project developers, businesses, governments, technology providers, and EPC contractors to structure, finance, and commission highly bankable projects. By providing the optimal set of services and solutions for each project, we generate attractive returns for clients and other stakeholders.

The meeco Group delivers these services and solutions via regional offices located worldwide to ensure we address local requirements and community needs.

Some of these services and solutions include:

- **clear advisory services:**
strategic consulting, project services, financial advisory and communications
- **oursun™ turnkey solutions:**
grid-connected and off-grid solutions, sun2go™ portable solutions and energy storage solutions
- **asset management services:**
on-going site services

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