



# GH TECHNO WORLD

## SOLAR LIGHTING

ISO 9001:2015 CERTIFIED COMPANY

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## About Us

Our company was established in 2014, and since then, we have been working in the field of lighting products serving numerous clients across the country.

We Provide an advanced energy-efficient, power-saving, and long-lasting solution for industries, hospital, fuel stations, roads, etc. floodlights, street lights, high bay lights, mid bay lights, and inspection lamp. We manufacture an advanced range of lighting products by maintaining quality control at every step of the production process.

## Our Vision

**Our vision is to be the leader in the industry and a consumer's First choice.**

We strive to fulfil this every day by being open to changes and constantly improving ourselves. We at GH Group believe in enhancing the quality of life of our customers.

### **Sustainable aware organization**

Our core business strategy has sustainable embedded into it right from the beginning. We believe in giving back to the community and adapting to the importance of being social and environment-conscious in all that we do.

## Mission

To design, manufacture, and deliver reliable, energy-efficient, and technologically advanced lighting solutions that enhance industrial safety, productivity & sustain ability, while consistently exceeding customer expectations through quality, innovation, and service excellence.

## Core Values



Integrity



Trust



Customer Delight



Innovation

# SMART SOLAR STREET LIGHT WITH CCTV SYSTEM

## Smart Surveillance & Lighting System

### Product Overview

The Solar Street Light with Camera is an integrated off-grid smart lighting and surveillance solution combining high-efficiency solar LED street lighting with an in-built CCTV / AI camera. Powered entirely by solar energy, it delivers 24×7 illumination and real-time monitoring without grid dependency. Ideal for smart cities, industrial campuses, highways, and remote locations.

### CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

### BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub>
Battery Capacity / No. of Batteries	60Ah / 100Ah (Project dependent)
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

### LUMINARIES DETAILS

Parameter	Specification
Wattage	40 W / 60 W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
LED Type	High-efficiency SMD LEDs / 6 Nos
No. of Lights	01 Nos. / 02 Nos. Dual LENS (Project dependent)
Beam Angle	120°
Ingress Protection	IP65/66

### PANEL DETAILS

Parameter	Specification
Panel wattage	165 W / 200 W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos (Project Dependent)

## CAMERA & SURVEILLANCE DETAILS

Parameter	Specification
Camera Resolution	2MP / 4MP / 5MP
Camera Type	Fixed / PTZ (Optional)
Lens	2.8 mm / 3.6 mm
Night Vision	IR LEDs / Color Night Vision
Detection	Motion / Human Detection (AI)
Connectivity	4G LTE / Wi-Fi
Storage	SD Card / Cloud
Viewing	Mobile App / Web Portal



### Key Benefits

- ✓ Integrated Solar LED Street Light + Camera
- ✓ Grid-free operation (Solar Panel + Battery)
- ✓ HD / Full HD / 4G AI Camera options
- ✓ Motion detection & event alerts
- ✓ Remote monitoring via mobile app / web portal
- ✓ High-efficiency Li-ion / LiFePO<sub>4</sub> battery
- ✓ Weatherproof IP65 / IP66 outdoor design
- ✓ Ideal for smart city & security projects

### Performance Benefits

- ✓ Zero electricity & trenching cost
- ✓ Integrated lighting + security in one pole
- ✓ Ideal for remote & high-risk areas
- ✓ Reduced infrastructure & maintenance cost
- ✓ Supports Smart City initiatives

# SOLAR HIGH MAST LIGHTING SYSTEM

Dual Solar Panels | Dual Battery | 6 LED Luminaires

## Product Overview

The Solar High Mast Lighting System is a heavy-duty, off-grid illumination solution designed for large open areas requiring high-intensity, reliable lighting without grid power.

Configured with 2 high-efficiency solar panels, 2 long-life batteries, and 6 powerful LED luminaires, this system ensures uniform, high-lux illumination with extended autonomy—ideal for infrastructure, industrial, and public lighting projects.

## CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

## BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	24V 78Ah / 12V 60AH (Project dependent) / 2 / 4 Nos
Autonomy	2–3 nights (without sun)
Battery Housing	Weatherproof, lockable box

## MAST DETAILS

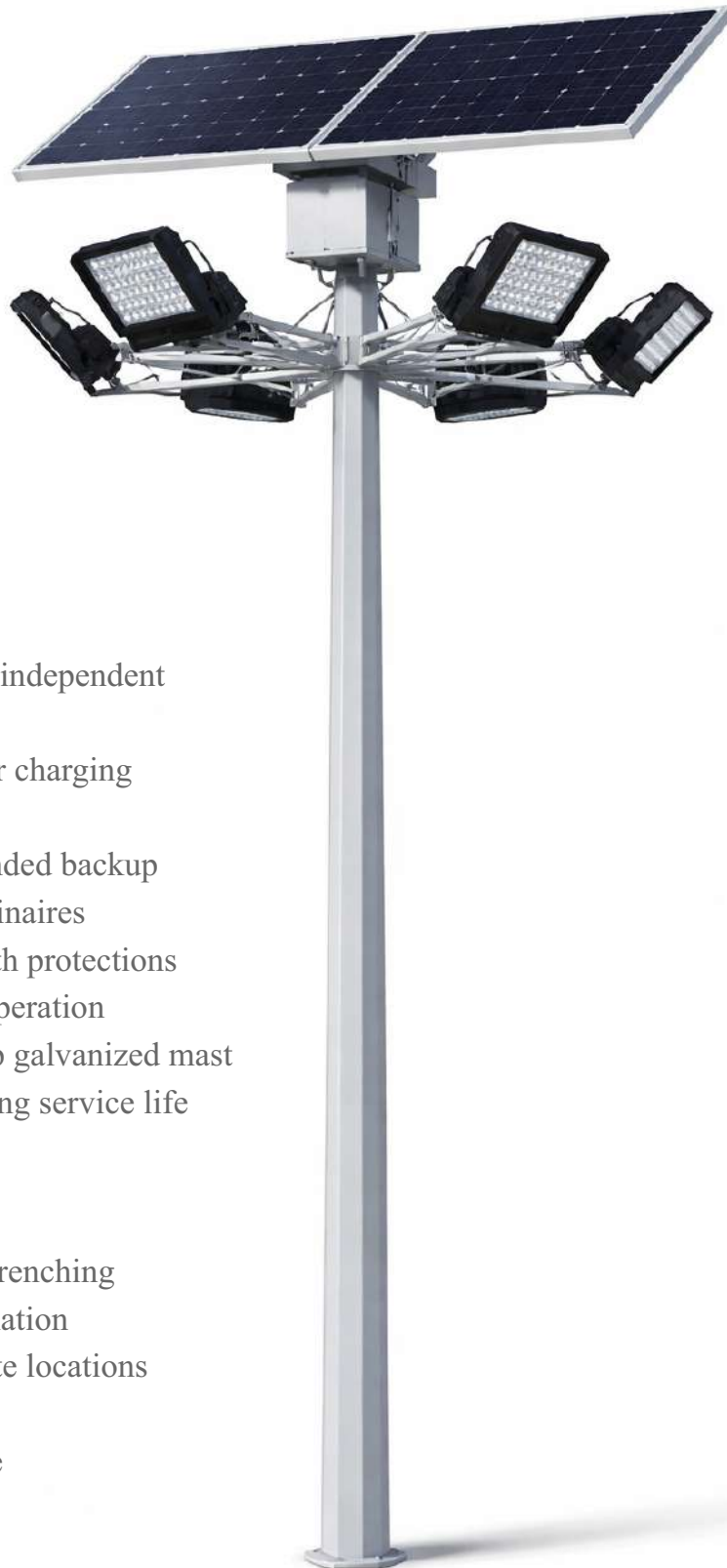
Parameter	Specification
Mast Height	06 Mtr. / 07 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC foundation with anchor bolts

## LUMINARIES DETAILS

Parameter	Specification
Wattage	30W / 40W
Luminous Efficacy	≥ 140–160 lm/W
LED Type / No. of Lights	High-efficiency SMD LEDs / 6 Nos / 4 Nos
CRI	>80
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	250 W / 335 W each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	2 Nos



### Key Benefits

- ✓ 100% Solar-powered, grid-independent system
- ✓ Dual solar panels for faster charging & redundancy
- ✓ Dual battery bank for extended backup
- ✓ 6 high-efficiency LED luminaires
- ✓ Smart charge controller with protections
- ✓ Automatic dusk-to-dawn operation
- ✓ High-wind resistant hot-dip galvanized mast
- ✓ Minimal maintenance & long service life

### Performance Benefits

- ✓ Zero electricity cost & no trenching
- ✓ Large-area uniform illumination
- ✓ Reliable operation in remote locations
- ✓ Reduced carbon footprint
- ✓ Low maintenance, long life

# SOLAR HIGH MAST LIGHTING SYSTEM

4 Solar Panels | 4 Batteries | 4 LED Luminaires

## Product Overview

The Solar High Mast Lighting System with Raising & Lowering Mechanism is a premium, off-grid lighting solution designed for large open areas where high illumination, reliability, and easy maintenance at ground level are critical.

Equipped with 4 high-efficiency solar panels, 4 long-life batteries, and 4 powerful LED luminaires, the integrated raising & lowering bracket system allows safe servicing without cranes or ladders. Ideal for highways, industrial yards, stadiums, ports, and smart infrastructure projects.

## CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

## BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12V 100Ah / 12V 120Ah (Project Dependent) / 4 Nos
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

## MAST DETAILS

Parameter	Specification
Mast Height	06 Mtr. / 09 Mtr. / 12 Mtr
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

## LUMINARIES DETAILS

Parameter	Specification
Wattage	50W / 80W
Luminous Efficacy	≥ 140–160 lm/W
No. of Lights	4 Nos
LED Type	High-efficiency SMD LEDs
CRI	>80
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	270 W / 335 W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	04 Nos



### Key Benefits

- ✓ 100% solar-powered, grid-independent system
- ✓ Raising & lowering bracket system for easy maintenance
- ✓ Four solar panels for high charging capacity
- ✓ Four battery bank for extended backup
- ✓ Four high-efficiency LED luminaires
- ✓ Smart MPPT charge controller
- ✓ Automatic dusk-to-dawn operation
- ✓ Heavy-duty hot-dip galvanized mast
- ✓ Low operating & maintenance cost

### Performance Benefits

- ✓ Manual or winch-operated mechanism
- ✓ Corrosion-resistant steel wire rope
- ✓ Smooth guided lowering of luminaire ring
- ✓ Maintenance at ground level – no crane required
- ✓ Enhanced safety & reduced downtime
- ✓ Designed to reduce maintenance cost & improve technician safety.

# HYBRID SOLAR LED STREET LIGHT

## Smart Hybrid Lighting

### Product Overview

The Hybrid Solar LED Street Light is an intelligent outdoor lighting solution that operates on solar energy with automatic grid power backup. Designed for all-weather reliability, it ensures uninterrupted illumination even during prolonged cloudy conditions, making it ideal for urban roads, highways, industrial campuses, and smart city projects.

### CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Ac Supply	230V AC 50hz

### BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12 V 40 Ah / 12 V 60 Ah (Project Dependent) / 1 Nos
Autonomy	1–2 nights (solar mode)
Charging	Solar & Grid charging

### POLE DETAILS

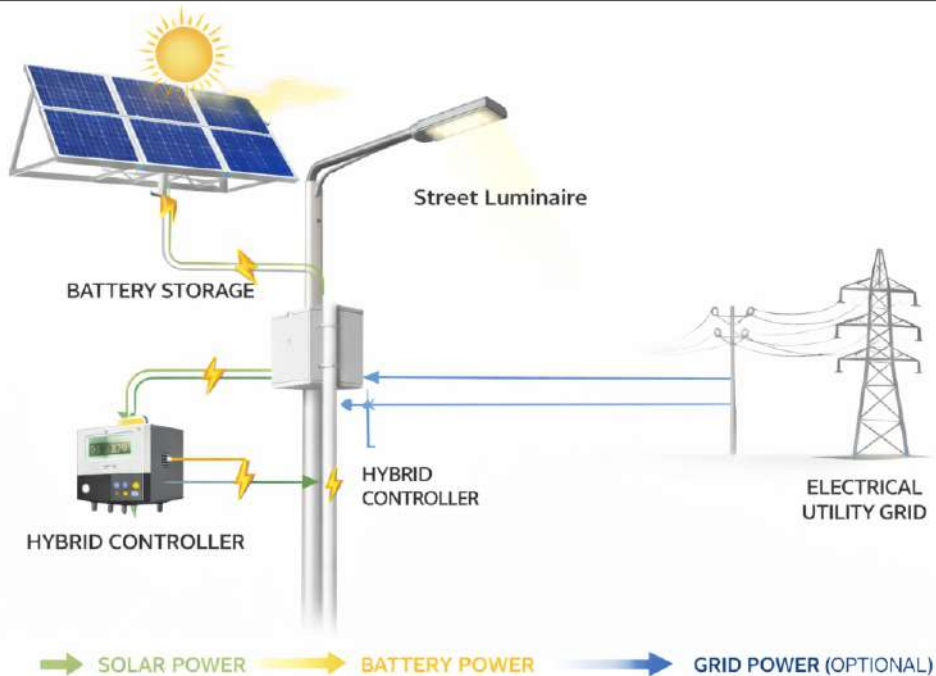
Parameter	Specification
Pole Height	06 Mtr. / 07 Mtr. / 09 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

### LUMINARIES DETAILS

Parameter	Specification
Wattage	30 W /40 W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
Input Voltage range	120–277V AC, 50/60 Hz
LED Type	High-efficiency SMD LEDs
CRI	>80
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	75 W / 125 W / 200W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos



Semi Integrated Solar Hybrid Street Light Type

### Key Benefits

- ✓ Dual power source – Solar + Grid
- ✓ Automatic changeover between solar & grid
- ✓ Smart energy management controller
- ✓ High-efficiency LED street luminaire
- ✓ Reduced electricity cost with grid backup security
- ✓ Weatherproof IP66 outdoor design
- ✓ Suitable for smart city & infrastructure projects

### Performance Benefits

- ✓ Uninterrupted lighting in all weather conditions
- ✓ Reduced grid electricity consumption
- ✓ Ideal for areas with unstable power supply
- ✓ Lower carbon footprint
- ✓ Easy integration into existing infrastructure



Integrated Solar Hybrid Street Light Type

# SOLAR STREET LIGHTING SYSTEM (Remote Monitoring)

IoT Enabled | Real-Time Data & Control

## Product Overview

The Remote Monitoring Based Solar Street Light is an advanced IoT-enabled smart lighting solution designed to provide real-time performance data, remote control, and intelligent automation. Integrated with a smart controller, communication module, and cloud-based dashboard, this system allows operators to monitor, control, and optimize solar street lights remotely, improving reliability, energy efficiency, and maintenance response.

Ideal for Smart Cities, highways, industrial campuses, government & municipal projects.

## CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

## BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12 V 100 Ah (Project Dependent) / 1 Nos
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

## PANEL DETAILS

Parameter	Specification
Panel wattage	200 W Each
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos / 02 Nos

## LUMINARIES DETAILS

Parameter	Specification
Wattage	40 W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
LED Type / No. of Lights	High-efficiency SMD LEDs / 6 Nos
CRI	>80
Beam Angle	120°
Ingress Protection	IP65/66

## REMOTE MONITORING & IoT DETAILS

Parameter	Specification
Communication	GSM / 4G LTE / LoRaWAN / NB-IoT
Location Tracking	GPS Enabled
Data Parameters	Battery SOC, Solar Voltage/Current, Load Status
Lighting Status	ON/OFF / Dim Level / Fault
Alerts	Battery low, panel fault, light failure, tamper
Control	Remote ON/OFF, dimming, scheduling
Storage	Cloud Based
Data Security	Encrypted cloud communication



### Key Benefits

- ✓ Real-time remote monitoring & control
- ✓ Live data for battery, solar, and lighting performance
- ✓ Automatic fault detection & alerts
- ✓ Individual light or group-based control
- ✓ Dusk-to-dawn & adaptive dimming automation
- ✓ Cloud dashboard + mobile app access
- ✓ Reduces maintenance cost & downtime
- ✓ Scalable for large city-wide deployments

### Performance Benefits

- ✓ Reduced maintenance & manpower cost
- ✓ Faster fault resolution
- ✓ Improved system uptime
- ✓ Optimized battery life
- ✓ Ideal for large-scale smart city deployments

# SOLAR HIGH MAST LIGHTING SYSTEM (Remote Monitoring High Mast)

IoT-enabled, large-area illumination solution

## Product Overview

The Remote Monitoring Based Solar High Mast Lighting System is an advanced IoT-enabled, large-area illumination solution designed to deliver real-time performance data, intelligent control, and high-reliability lighting for expansive outdoor spaces.

By integrating solar power, smart controllers, communication modules, and a cloud-based monitoring platform, this system enables live monitoring, remote operation, and predictive maintenance of high mast installations. Ideal for highways, ports, industrial yards, mining areas, stadiums, smart cities, and critical infrastructure projects

## CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

## BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12 V 100 Ah (Project Dependent) / 04 Nos. / 06 Nos.
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

## MAST DETAILS

Parameter	Specification
Mast Height	06 Mtr. / 09 Mtr. / 12 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

## LUMINARIES DETAILS

Parameter	Specification
Wattage	50 W / 80 W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
LED Type / No. of Lights	High-efficiency SMD LEDs / 6 Nos
CRI	>80
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	335 W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	04 Nos / 06 Nos (Project Dependent)



## REMOTE MONITORING & IoT DETAILS

Parameter	Specification
Communication	GSM / 4G LTE / LoRaWAN / NB-IoT
Location Tracking	GPS Enabled
Live Parameters	Solar V/I, Battery SOC, Load Status
Lighting Status	ON/OFF / Dim Level / Fault
Alerts	Battery low, panel fault, light failure, tamper
Dashboard	Web Portal + Mobile App
Data Security	Encrypted cloud communication

### Key Benefits

- ✓ Real-time remote monitoring & control of entire high mast system
- ✓ Live data for solar panels, batteries and LED luminaires
- ✓ Remote ON/OFF, dimming & scheduling
- ✓ Automatic fault detection & alerts
- ✓ Cloud-based dashboard + mobile app access
- ✓ Individual mast or group-based control
- ✓ Optimized energy usage & battery life
- ✓ Scalable for city-wide or campus-wide deployment

# ALL-IN-ONE SOLAR LED STREET LIGHT

## Integrated Solar Lighting Solution

### Product Overview

The All-in-One Solar LED Street Light is a compact, self-contained outdoor luminaire that integrates the solar panel, lithium battery, charge controller, and LED light into a single housing. Designed for quick installation and zero grid dependency, it delivers reliable, energy-efficient lighting for roads, campuses, and remote areas.

Ideal for smart cities, villages, industrial roads, parking areas, and pathways.

### CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

### BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12V 45Ah / 60Ah (Project Dependent)
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

### POLE DETAILS

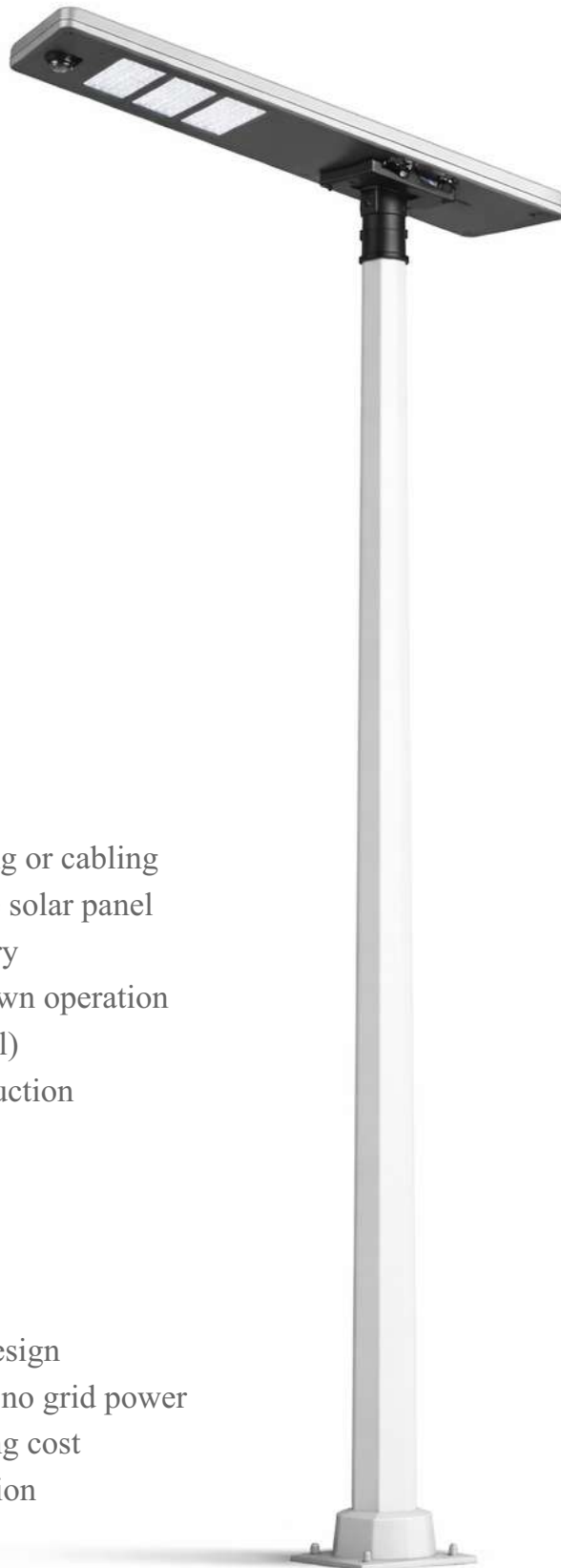
Parameter	Specification
Pole Height	06 Mtr. / 07 Mtr. / 09 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

### LUMINARIES DETAILS

Parameter	Specification
Wattage	40W / 50W / 60W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
Optional AC Supply	Yes, 230V AC 50hz
LED Type	High-efficiency SMD LEDs / 4 Nos
No. of Lights	01 Nos. Dual LENS
Beam Distribution	Wide Area Roadways Optics
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	75 W / 125 W / 200 W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos



### Key Benefits

- ✓ All-in-one integrated design (panel + battery + LED)
- ✓ 100% solar powered, no trenching or cabling
- ✓ High-efficiency mono-crystalline solar panel
- ✓ Long-life Li-ion / LiFePO<sub>4</sub> battery
- ✓ Smart controller with dusk-to-dawn operation
- ✓ Motion sensor dimming (optional)
- ✓ Weatherproof IP65 / IP66 construction
- ✓ Quick pole-mount installation

### Performance Benefits

- ✓ Zero electricity & trenching cost
- ✓ Compact & aesthetically clean design
- ✓ Ideal for areas with unreliable or no grid power
- ✓ Reduced maintenance & operating cost
- ✓ Environment-friendly solar solution

# BLUETOOTH-BASED SOLAR LED STREET LIGHT

App-Controlled | Smart Solar Lighting

## Product Overview

The Bluetooth-Based Solar LED Street Light is a smart, app-controlled off-grid lighting solution that allows wireless configuration, monitoring, and control via a mobile device—without SIM cards or internet. Using Bluetooth connectivity, installers and operators can set schedules, dim levels, and modes on-site, making it ideal for campuses, townships, parks, and industrial premises.

## CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Bluetooth Enabled	Yes Inbuilt in Controller

## BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12V 45Ah / 60Ah (Project Dependent)
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

## POLE DETAILS

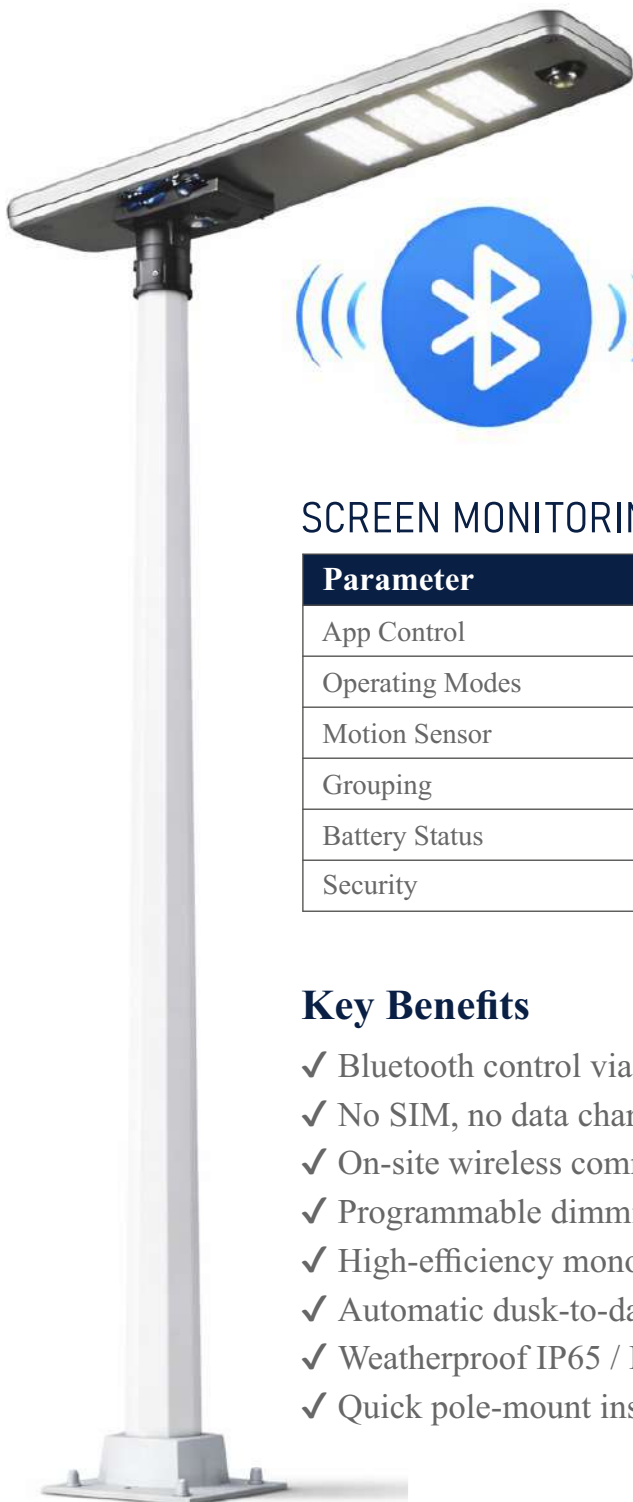
Parameter	Specification
Pole Height	06 Mtr. / 07 Mtr. / 09 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head
Foundation	RCC with anchor bolts

## LUMINARIES DETAILS

Parameter	Specification
Wattage	20W / 30W / 40W / 60W
Luminous Efficacy	≥ 140–160 lm/W
LED Type	High-efficiency SMD LEDs
CRI	>80
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	60W / 80W / 100W / 120W
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos



## SCREEN MONITORING DETAILS

Parameter	Specification
App Control	ON/OFF, dimming, scheduling
Operating Modes	Dusk-to-Dawn / Time-based / Motion
Motion Sensor	PIR / Microwave (Optional)
Grouping	Control multiple lights together
Battery Status	Live battery level via app
Security	Password-protected access

### Key Benefits

- ✓ Bluetooth control via mobile app (Android / iOS)
- ✓ No SIM, no data charges, no internet required
- ✓ On-site wireless commissioning & maintenance
- ✓ Programmable dimming, timing & motion modes
- ✓ High-efficiency mono solar panel + lithium battery
- ✓ Automatic dusk-to-dawn operation
- ✓ Weatherproof IP65 / IP66 outdoor construction
- ✓ Quick pole-mount installation

# ALL-IN-ONE SOLAR HIGH MAST – 04 LIGHT SYSTEM

Integrated Solar | Battery | Controller | LED

## Product Overview

The All-in-One Solar High Mast – 04 Light System is a compact, self-contained off-grid lighting solution engineered for large open areas requiring reliable illumination with minimum installation effort. Each system integrates the solar panel, lithium battery, smart controller, and LED luminaires into a unified high-mast assembly, eliminating external battery boxes and complex wiring. Ideal for industrial yards, highways, campuses, parking areas, and public infrastructure.

## CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

## BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity	12V 45Ah / 60 Ah (Project Dependent)
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

## MAST DETAILS

Parameter	Specification
Mast Height	06 Mtr. / 07 Mtr. / 09 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150–180 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

## LUMINARIES DETAILS

Parameter	Specification
Wattage	40W / 50W / 60W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
Optional AC Supply	Yes, 230V AC 50hz
LED Type	High-efficiency SMD LEDs
CRI	>80
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	75 W / 125 W / 200 W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	04 Nos (Project Dependent)



### Key Benefits

- ✓ All-in-one integrated design  
(panel + battery + controller + LEDs)
- ✓ 04 high-efficiency LED luminaires on a single mast
- ✓ No external battery cabinet or trenching
- ✓ Smart MPPT controller with dusk-to-dawn automation
- ✓ Programmable dimming & energy management
- ✓ Weatherproof IP65 / IP66 construction
- ✓ Hot-dip galvanized mast for long outdoor life
- ✓ Fast installation & low maintenance

### Performance & Safety Benefits

- ✓ Zero electricity cost & no grid dependency
- ✓ Clean installation without external battery boxes
- ✓ Uniform illumination for large areas
- ✓ Reduced maintenance & operational cost
- ✓ Ideal for remote and infrastructure locations

# DECORATIVE SOLAR STREET LIGHT SYSTEM

Standalone / Integrated Solar Luminaire

## Product Overview

Decorative Solar Street Light System is an aesthetically designed, energy-efficient outdoor lighting solution powered by solar energy. It combines modern LED technology with elegant pole and luminaire design, ideal for urban streets, parks, pathways, campuses, gardens, resorts, and smart city projects. The system operates automatically from dusk to dawn without grid power.

## CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

## BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12V 45Ah / 60Ah / 100Ah (Project Dependent) / 01 Nos
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

## POLE DETAILS

Parameter	Specification
Pole Height	06 Mtr. / 07 Mtr. / 09 Mtr.
Material	Hot-Dip Galvanized Steel / Cast Iron Powder Coated
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

## LUMINARIES DETAILS

Parameter	Specification
Wattage	40 W / 60 W / 80 W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
LED Type	High-efficiency SMD LEDs
No. of Lights	01 Nos. / 02 Nos. Dual LENS
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	125 W / 165 W/ 200 W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos (Project Dependent)



### Key Benefits

- ✓ Attractive Decorative Design for urban & landscape lighting
- ✓ 100% Solar Powered – no electricity cost
- ✓ Automatic Dusk-to-Dawn Operation
- ✓ High-Efficiency LED Light Source
- ✓ Maintenance-Free Operation
- ✓ Weatherproof & Corrosion Resistant
- ✓ Environment Friendly & Zero Emission

### Performance & Safety Benefits

- ✓ No Trenching or Cabling Required
- ✓ Reduced Installation Cost
- ✓ Ideal for Remote & Off-Grid Areas
- ✓ Long Life LEDs & Batteries
- Low Maintenance & High Reliability

# SOLAR STREET LIGHT WITH INBUILT BATTERY

## Motion Controlled Lighting System

### Product Overview

Solar Street Light with Inbuilt Battery is an advanced, self-contained outdoor lighting system that integrates a high-efficiency solar panel, lithium battery, LED luminaire, and smart charge controller into a single compact unit. Designed for reliable, maintenance-free operation, it is ideal for roads, campuses, industrial areas, and remote locations with no grid access.

### CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Motion Censor	Available

### BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12 V 45 Ah / 60 Ah / 100Ah (Project Dependent) / 1 Nos
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

### POLE DETAILS

Parameter	Specification
Pole Height	06 Mtr. / 07 Mtr. / 09 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

### LUMINARIES DETAILS

Parameter	Specification
Wattage	40W / 60W / 80W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
LED Type	High-efficiency SMD LEDs
No. of Lights	01 Nos. / 02 Nos. Dual LENS
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	125W / 165W / 200W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos (Project Dependent)



### Key Benefits

- ✓ All-in-One Integrated Design
- ✓ Inbuilt Lithium Battery (No External Battery Box)
- ✓ High Lumen Output with Uniform Road Illumination
- ✓ Automatic Dusk-to-Dawn Operation
- ✓ Smart Charge & Discharge Controller
- ✓ Weatherproof & Dustproof Construction
- ✓ Easy Installation on Pole / Wall

### Performance & Safety Benefits

- ✓ Zero Electricity Consumption
- ✓ No Trenching or Cabling Required
- ✓ Long Life Battery & LED
- ✓ Minimal Maintenance
- ✓ Ideal for Government & Solar EPC Projects

# SOLAR FLOOD LIGHT WITH INBUILT BATTERY

## Semi Integrated Solar Flood Light

### Product Overview

Solar Flood Light with Inbuilt Battery System is a compact, high-performance outdoor lighting solution integrating lithium battery, LED luminaire, and controller into a single unit. It is designed for quick installation, zero electricity consumption, and reliable illumination in off-grid and remote locations.

### CONTROLLER DETAILS

Parameter	Specification
Charge Controller	Smart MPPT (In-built)
Operating Modes	Dusk-to-Dawn / Time-based dimming
Protections	Over-charge, deep-discharge, short-circuit
Cabling	UV-resistant internal wiring

### BATTERY DETAILS

Parameter	Specification
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity / No. of Batteries	12V 45Ah / 60Ah (Project Dependent) / 01 Nos
Autonomy	2–3 nights (without sun)
Battery Housing	In-built, weatherproof

### POLE DETAILS

Parameter	Specification
Pole Height	06 Mtr. / 08 Mtr. / 09 Mtr.
Material	Hot-Dip Galvanized Steel
Wind Resistance	Up to 150 km/h
Maintenance Option	Fixed Head / Raising-Lowering
Foundation	RCC with anchor bolts

### LUMINARIES DETAILS

Parameter	Specification
Wattage	40W / 60W / 80W (Project dependent)
Luminous Efficacy	≥ 140–160 lm/W
LED Type	High-efficiency SMD LEDs / 6 Nos
No. of Lights	04 Nos. / 06 Nos. Dual LENS (Project dependent)
Beam Angle	120°
Ingress Protection	IP65/66

## PANEL DETAILS

Parameter	Specification
Panel wattage	165W / 200W / 270W Each (Project Dependent)
Mounting	Adjustable tilt structure
Panel type	Mono-crystalline
No. Panels	01 Nos (Project Dependent)



### Key Benefits

- ✓ All-in-One Design (Battery + LED + Controller)
- ✓ No External Battery or Wiring Required
- ✓ High-Efficiency LED with Uniform Light Distribution
- ✓ Automatic Dusk-to-Dawn Operation
- ✓ Inbuilt Lithium Battery for Long Backup
- ✓ Weatherproof & Corrosion Resistant
- ✓ Low Maintenance & Easy Installation

### Performance & Safety Benefits

- ✓ Zero Electricity Cost
- ✓ Quick Plug-and-Play Installation
- ✓ Compact & Aesthetic Design
- ✓ Long Life LED & Battery
- ✓ Ideal for Government & Solar Projects

# SOLAR BLINKER WITH POLE

Solar Warning / Aviation / Traffic Blinker System

## Product Overview

The Solar Blinker with Pole is a self-powered warning and safety lighting system designed for road safety, traffic control, aviation zones, construction sites, and industrial premises. Powered by high-efficiency solar panels with an inbuilt battery system, it operates reliably without grid electricity and ensures high visibility during night and low-visibility conditions

## SOLAR POWER DETAILS

Parameter	Specification
Pole Type	MS / GI / Aluminium
Pole Shape	Round / Octagonal
Pole Height	2 m / 3 m / 4 m (Customizable)
Finish	Hot-Dip Galvanized / Powder Coated
Mounting	Flange Base / Direct Embedment

## SOLAR LIGHTING SPECIFICATIONS

Parameter	Specification
Light Source	High Brightness Red / Amber LED
Blinking Mode	Flashing / Steady (Optional)
Solar Panel	Mono / Polycrystalline
Panel Wattage	5W / 10W (as per requirement)
Battery Type	LiFePO <sub>4</sub> , 3500 Cycles
Battery Capacity	6Ah – 12Ah
Autonomy	2–3 Nights Backup
Charging Time	6–8 Hours (Sunlight)
Optical Visibility	Up to 800–1000 meters
Housing Material	UV Stabilized Polycarbonate / Aluminium
Ingress Protection	IP65 / Ip66
Operating Temperature	-10°C to +60°C



## **Key Benefits**

- ✓ 100% Solar Powered – No external power required
- ✓ High-Intensity LED Blinker for long-distance visibility
- ✓ Automatic Dusk-to-Dawn Operation
- ✓ Weatherproof & Corrosion-Resistant Design
- ✓ Maintenance-Free Operation
- ✓ Standalone Pole-Mounted System
- ✓ Eco-Friendly & Energy Efficient

## **Performance & Safety Benefits**

- ✓ Enhances road and site safety
- ✓ Zero electricity cost
- ✓ Quick installation
- ✓ Works during power failures
- ✓ Long service life

# OUR VALUED CUSTOMER





**60000 + square feet Production facility**

**12000 + Trusted customers Globally**



**114 + energy efficient products**



**In house testing equipmet**



**NABL approved Semi Automatic &  
Automatic Assembly Line**

**1 Million + AC/DC luminaries delivered**






**2200 + digitally accessed & monitored  
Products delivered**



# GH TECHNO WORLD

MANUFACTURERS OF INDUSTRIAL LIGHTING

ISO 9001:2015 CERTIFIED COMPANY

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