



LED  
**STREET**  
LIGHTS



LED  
**FLOOD**  
LIGHTS



LED  
**HIGHBAY**  
LIGHTS



LED  
**INDOOR**  
LIGHTS



LED LINEAR  
**HIGHBAY**  
LIGHTS



SOLAR/DC  
**LED**  
LIGHTS



INTEGRATED  
SOLAR **STREET**  
LIGHTS



SOLAR  
**HOME**  
LIGHTING



ALL IN ONE  
**SOLAR STREET**  
LIGHTS



LED  
**FLAMEPROOF**  
LIGHTS



**LED** | SMART  
**LED LIGHTING**  
SOLUTION

[www.photonicslights.com](http://www.photonicslights.com)

## ABOUT US

We are pleased to introduce our company PHOTONICS, Founded in 2011, Manufacturer & exporter of Solar LED Street Lights (built-in charge & auto dusk to dawn), LED Street Lights, LED Flood Lights, Solar LED Flood Lights, LED High Bay Lights, LED Tube lights, Panel Lights, Down Lights, Flameproof Lights, Landscape Lights, Solar Power Packs etc.

Our mission is to provide quality, high performance cost-effective engineered systems that include solar LED lights and off-utility grid solar power systems for commercial, industrial and government applications. We are a progressive, agile, inventive company and is committed to reducing carbon emissions using best-in-class technology, We bring durable and affordable lighting to a wide range of clients, each having a unique and often harsh operation environment.

We recognize that the industry is rapidly changing as more efficient technology becomes available. That is why we continue to work closely at a grass roots level with users. Contractors, Installers and technologists worldwide. With their practical experience, our team is able to focus our processes and engineering efforts on practical product refinements that enhance durability, performance and reduce costs.

## INFRASTRUCTURE



**LED** | SMART  
LED LIGHTING  
SOLUTION



# PRODUCTS



LED **STREET** LIGHTS  
 LED **FLOOD** LIGHTS  
 LED **HIGHBAY** LIGHTS  
 LED **FLAMEPROOF** LIGHTS  
 SOLAR **LED STREET** LIGHTS  
 SOLAR **LED FLOOD** LIGHTS  
 INTEGRATED **SOLAR STREET** LIGHTS  
**ALL IN ONE** SOLAR STREET LIGHTS  
 LED **INDOOR** LIGHTS  
 SOLAR **MOVABLE LIGHTS TOWER**  
**BLDC FANS**  
 SOLAR **CCTV CAMARA**  
**BUS** LIGHTS  
 LED **LINEAR HIGHBAY** LIGHTS  
**GRID CONNECTED** SOLAR STREET LIGHTS  
 SOLAR **ROOFTOP** SYSTEMS  
 SOLAR **WATER PUMPS**



## CLIENTS



## GLOBAL NETWORK



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**PHOTON SL15-15W**

**PHOTON SL18-18W**

**PHOTON SL-20-20W**

**PHOTON SL24-24W**

**PHOTON SL25-25W**

**PHOTON SL30-30W**



**PHOTON SL36-36W**

**PHOTON SL40-40W**

## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	90-305VAC, 50/60Hz
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
POWER FACTOR	> 0.98
CCT	2700-6500K
CRI	>70
THD	< 10%
LUMINOUS EFFICACY	>120 lm/w
MECHANICAL IMPACT RESISTANCE	IK08 (Body & Frame Only)



## APPLICATION







PHOTON SL45-45W

PHOTON SL-48-48W

PHOTON SL-50-50W

PHOTON SL60-60W

## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	90-305VAC, 50/60Hz
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
POWER FACTOR	> 0.98
CCT	2700-6500K
CRI	>70
THD	< 10%
LUMINOUS EFFICACY	>120 lm/w
MECHANICAL IMPACTRESISTANCE	IK08 (Body & Frame Only)



## APPLICATION



PHOTON SL70-70W

PHOTON SL-75-75W

PHOTON SL-80-80W

PHOTON SL90-90W

PHOTON SL100-100W



**PHOTON SL120-120W**

**PHOTON SL125-125W**

## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	90-305VAC, 50/60Hz
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
POWER FACTOR	> 0.98
CCT	2700-6500K
CRI	>70
THD	< 10%
LUMINOUS EFFICACY	>120 lm/w
MECHANICAL IMPACTRESISTANCE	IK08 (Body & Frame Only)



**PHOTON SL150-150W**

**PHOTON SL-180-180W**

**PHOTON SL-200-200W**

**PHOTON SL250-250W**

## APPLICATION





**PHOTON DL70-70W**

**PHOTON DL150-150W**

## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	90-305VAC, 50/60Hz
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
POWER FACTOR	> 0.98
CCT	2700-6500K
CRI	>70
THD	< 10%
LUMINOUS EFFICACY	>120 lm/w
MECHANICAL IMPACT RESISTANCE	IK08 (Body & Frame Only)



## APPLICATION







PHOTON FL12-12W	PHOTON FL20-20W	PHOTON FL30-30W
PHOTON FL50-50W	PHOTON FL60-60W	PHOTON FL70-70W
PHOTON FL80-80W	PHOTON FL90-90W	PHOTON FL100-100W
PHOTON FL120-120W	PHOTON FL150-150W	PHOTON FL180-180W
PHOTON FL200-200W	PHOTON FL250-250W	PHOTON FL300-300W
PHOTON FL350-350W	PHOTON FL400-400W	

## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	90-305VAC, 50/60Hz/24V AC
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
POWER FACTOR	> 0.98
CCT	2700-6500K
CRI	>70
THD	< 10%
LUMINOUS EFFICACY	>120 lm/w
MECHANICAL IMPACTRESISTANCE	IK08 (Body & Frame Only)





MODEL	WATT	OUTER DIA(mm)	WEIGHT KG.
PHOTON HBY70	70	376	5
PHOTON HBY80	80	376	5
PHOTON HBY90	90	376	5
PHOTON HBY100	100	376	5
PHOTON HBY120	120	376	5
PHOTON HBY150	150	425	9.5
PHOTON HBY180	180	425	9.5
PHOTON HBY200	200	425	9.5
PHOTON HBY250	250	425	9.5

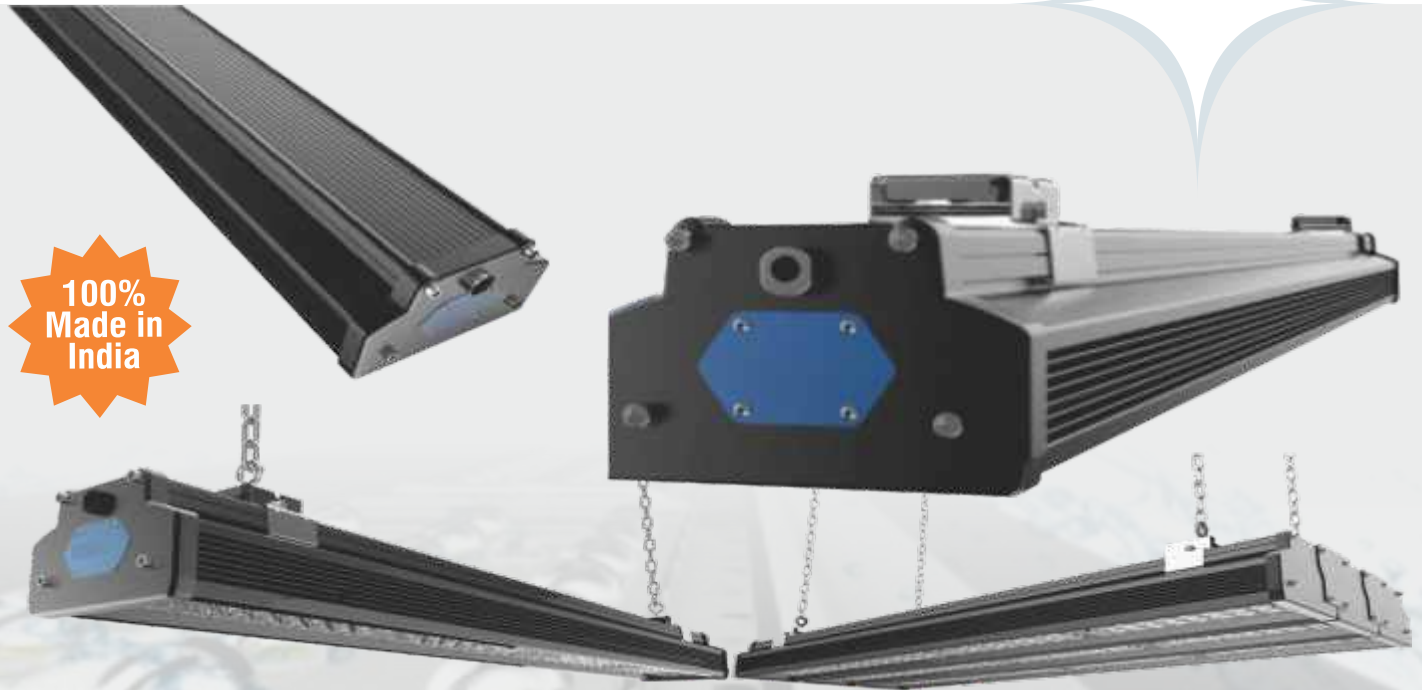


## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	90-305VAC, 50/60Hz
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
POWER FACTOR	> 0.98
CCT	2700-6500K
CRI	>70
THD	< 10%
LUMINOUS EFFICACY	>120 lm/w
MECHANICAL IMPACT RESISTANCE	IK08 (Body & Frame Only)



# LED LINEAR Highbay Lights



100%  
Made in  
India



Ceiling Mounted

Suspending

Spliced

## Model :

- Photon HBYLN35
- Photon HBYLN50
- Photon HBYLN250
- Photon HBYLN100
- Photon HBYLN150
- Photon HBYLN180
- Photon HBYLN200

Workplace lighting in industries must have superior performance and should meet safety standards. The right light improves the mood of the workers and reduces the rate of error. Mid Bay and **High Bay lighting** are designed for taller ceilings and larger areas. These luminaires are ideal for warehouses, manufacturing facilities, ports and any industrial application.

## AREA OF APPLICATION

- High Roof Lighting
- Production Area
- Ware Houses
- Factory Compounds



## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	90-305VAC, 50/60Hz
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
POWER FACTOR	> 0.98
CCT	2700-6500K
CRI	>70
THD	< 10%
LUMINOUS EFFICACY	>130 lm/w
MECHANICAL IMPACTRESISTANCE	IK08 (Body & Frame Only)



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MODEL	WATT	EFFICACY	LUMINOUS
PHOTON FPFL-100	100	125	12500
PHOTON FPFL-120	120	125	15000
PHOTON FPFL-150	150	125	18750
PHOTON FPWG-60	60	125	7500
PHOTON FPBH-60	60	125	7500
PHOTON FPRL-10	60	110	6600



### AREA of APPLICATION

- Oil & Gas field Installation.
- Coal Mines
- Offshore Oil & Gas Platform
- Refineries & Petrochemicals
- Chemical Plants
- Power Plant
- Port Trusts
- Steel Plants
- Fertilizer Plant
- LPG Bottling plant
- Process Industries
- Petroleum Pumping & Gas Compressor station.





## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	12/24V DC
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
CCT	2700-6500K
CRI	>70
LUMINOUS EFFICASY	>120 lm/w
MECHANICAL IMPACTRESISTANCE	IK08 (Body & Frame Only)



PHOTON SSL7-7W	PHOTON SSL9-9W	PHOTON SSL12-12W
PHOTON SSL15-15W	PHOTON SSL18-18W	PHOTON SSL20-20W
PHOTON SSL24-24W	PHOTON SSL30-30W	PHOTON SSL40-40W
PHOTON SSL48-48W	PHOTON SSL60-60W	



PHOTON SSL70-70W	PHOTON SSL80-80W
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## APPLICATION



- | Intelligent dimming during monsoon
- | Over Voltage, Reverse Polarity, Over Charging and deep Discharging Protection
- | MNRE Approved model available
- | Charging and Low battery indication
- | Dusk to Dawn



PHOTON SSL100-100W | PHOTON SSL120-120W | PHOTON SSL150-150W



PHOTON SSL180-180W | PHOTON SSL200-200W | PHOTON SSL250-250W

## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	12/24V DC
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
CCT	2700-6500K
CRI	>70
LUMINOUS EFFICASY	>120 lm/w
MECHANICAL IMPACTRESISTANCE	IK08 (Body & Frame Only)



## APPLICATION



- | Intelligent dimming during monsoon
- | Over Voltage, Reverse Polarity, Over Charging and deep Discharging Protection
- | MNRE Approved model available
- | Charging and Low battery indication
- | Dusk to Dawn





PHOTON SFL20E-20W	PHOTON SFL30E-30W	PHOTON SFL50-50W
PHOTON SFL60-60W	PHOTON SFL70-70W	PHOTON SFL80-80W
PHOTON SFL90-90W	PHOTON SFL100-100W	PHOTON SFL120-120W
PHOTON SFL150-150W	PHOTON SFL180-180W	PHOTON SFL200-200W
PHOTON SFL250-250W		

## PRODUCT INFORMATION

HOUSING	Aluminium PDC
FRAME COLOUR	Black
IP RATING	IP66
OPERATING TEMP	(-40°C to 60°C)
INPUT VOLTAGE	12/24V DC
LIFESPAN	>50,000 hours (Ta-25°C)
ALUMINIUM GRADE	ADC12/LM24/ALSL132
CCT	2700-6500K
CRI	>70
LUMINOUS EFFICASY	>120 lm/w
MECHANICAL IMPACTRESISTANCE	IK08 (Body & Frame Only)



# INTEGRATED SOLAR STREET LIGHTS



PHOTON SSL7-TIO	PHOTON SSL9-TIO	PHOTON SSL12-TIO
PHOTON SSL15-TIO	PHOTON SSL18-TIO	PHOTON SSL20-TIO
PHOTON SSL24-TIO	PHOTON SSL30-TIO	PHOTON SSL36-TIO
PHOTON SSL40-TIO	PHOTON SSL50-TIO	PHOTON SSL60-TIO
PHOTON SSL70-TIO	PHOTON SSL80-TIO	PHOTON SSL90-TIO
PHOTON SSL100-TIO		

**Photronics®**  
Your Energy Partner

## Salient Features

- In-built battery to stop nuisance of theft
- PIR Motion Sensor adjusts brightness on sensing motion (12m range) resulting into longer battery cycle
- Automatic Dusk-to-Dawn operation and solar panel dirty indication
- Lithium-Ion/FerroPhosphate battery technology provides longer product life with absolutely zero maintenance
- Green & Red Indicators provided for indicating battery charging / fault
- No requirement of connecting wires or trenching
- Can be used with old panel and pole
- Simple and easy installation • 100% Environment Friendly



[www.photonicslights.com](http://www.photonicslights.com)

# ALL IN ONE SOLAR STREET LIGHTS



**MNRE  
Approved**



**Photonic<sup>®</sup>**  
Your Energy Partner

PHOTON SSL7-AIO	PHOTON SSL9-AIO	PHOTON SSL12-AIO
PHOTON SSL15-AIO	PHOTON SSL18-AIO	PHOTON SSL20-AIO
PHOTON SSL25-AIO	PHOTON SSL30-AIO	PHOTON SSL40-AIO

**100%  
Made in  
India**

## Features :

- Integrated Solar panel, LED light, PIR motion sensor, Li-ion battery and high efficiency solar charge controller
- PIR Sensor adjusts LED brightness on sensing motion (12m range)
- LEDs dim to 1/3 intensity after 1 min. of detecting no motion
- Automatic dusk to dawn operation & Solar panel dirty indication
- Microcontroller based design enables intelligent and efficient working
- Lithium-ion battery technology provides longer product life and is completely maintenance free
- GREEN & RED LEDs for indicating battery charging / fault



Day Time OFF

40% Brightness When  
No Object Around

100% Brightness When  
Human Enter in the range



LM79 LM80



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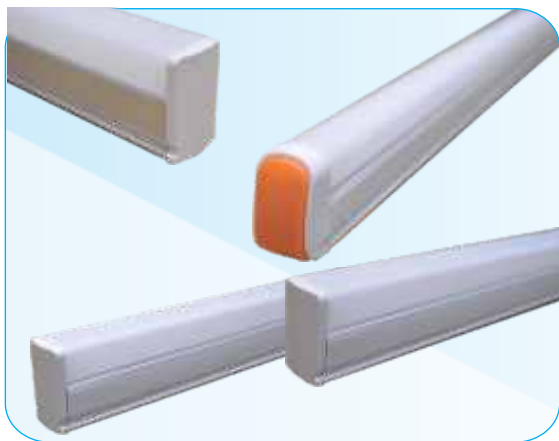


# LED INDOOR LIGHTS



## ULTRA SLIM SURFACE PANEL LIGHTS

MODEL NO	O/D	HEIGHT
<b>SQUARE</b>		
PHOTON - USS-SQ-6W	90MM	24
PHOTON - USS-SQ-12W	140MM	24
PHOTON - USS-SQ-18W	190MM	24
<b>ROUND</b>		
PHOTON - USS-RD-6W	90MM	24
PHOTON - USS-RD-12W	140MM	24
PHOTON - USS-RD-18W	190MM	24



## EDGE LIT PANEL LIGHTS

MODEL NO	O/D	CUTOUT SIZE
<b>SQUARE</b>		
PHOTON - ELS-6W	120MM	100MM
PHOTON - ELS-12W	170MM	148 MM
PHOTON - ELS-18W	225MM	200MM
PHOTON - ELS-24W	298MM	273MM
<b>ROUND</b>		
PHOTON - ELR-6W	120MM	100MM
PHOTON - ELR-12W	170MM	150MM
PHOTON - ELR-18W	223MM	200MM

## BACKLIT PANEL LIGHTS

MODEL NO	O/D	CUTOUT SIZE
<b>SQUARE</b>		
PHOTON - BLS-6W	110MM	93MM
PHOTON - BLS-12W	155MM	130MM
PHOTON - BLS-18W	180MM	150MM
<b>ROUND</b>		
PHOTON - BLR-6W	110MM	90MM
PHOTON - BLR-12W	150MM	126MM
PHOTON - BLR-18W	180MM	150MM



## LED TUBE LIGHTS

MODEL NO	WATT
<b>SQUARE</b>	
PHOTON T5 SQ - SILVER	18
PHOTON T5 SQ - SLIM SILVER	18
PHOTON T8 SQ - SILVER	24
PHOTON T8 SQ - SILVER	36



SOLAR MOVABLE **LIGHT TOWERS**

**SOLARISCA**



100%  
Made in  
India

MODEL : **PSLT 400** **PSLT 600**

**PHOTONICS**<sup>®</sup>  
Your Energy Partner

### **Bright White LED Lighting Powered by Free Renewable Energy**

Zero emissions, zero noise and zero liquid spills. With **PHOTONICS Light Tower** you get the best of both worlds: impressive performance and eco-friendliness. Flexible and Low maintenance, the PHOTONICS Delivers bright LED light and the lowest total cost of Ownership possible for a light tower.

### **Simple To Connect & Tow Trailer**

- Tough commercial grade steel trailer
- 30" wheels for smooth and easy transport

### **Flood Lights**

- Brilliant white LED Lights are Solid State. Unlike filament lights, they are more resistant to vibration damage during transport

### **Compact | Rugged**

### **Portable | Road Ready**



### **EASY OPERATION**

Charge by day, work by night  
External Charge  
Quick Installation (Simple 1 Person Setup)

### **SUPERIOR PERFORMANCE**

Bright White LED Lighting  
Shows True Colors  
Provides Safe Work Areas  
Covers Large Areas

### **SUSTAINABLE LIGHT**

No Expensive Diesel Fuel  
No Time-Consuming Refueling or Maintenance  
No Noise  
No Exhaust Fumes  
No Carbon Emissions  
No On-going Operating Costs

### **RELIABILITY**

Simple to Connect & Tow Trailer  
Tough commercial grade steel trailer  
30" wheels for smooth and easy transport  
**ON-SITE SECURITY**



LM79

LM80



# smart BLDC Ceiling Fans



## 60%

With super energy efficient BLDC motor, it saves upto 60% energy.



Easy access with Remote control  
No regulator needed.  
Saves space on switchboards.



Runs 3 times longer on inverter, that maximize battery life.



**PHOTONICS**<sup>®</sup>  
Your Energy Partner

## Silent Features

- LED underlight for speed indication, also can be used as night light.
- Brisk airflow.
- Highest service value more than 6.5 (air delivery/watt)
- **No humming noise.**
- Power factor more than 0.95
- Consistent performance even at low voltage and power fluctuation.
- Smart algorithms integrated to precisely tune the motor in real time.
- Powder coated Aluminum die cast body that prevents rust.
- Part allocation from renowned sources.
- ROHS electronics.
- World-class double ball bearings.

Description	Watt	Ordinary Fan		Watt	Photonics Fan	
Number of fans		5			5	
Running hours in a day		10	20		10	20
Energy consumption in unit @max speed per day	75W	3.75	7.5	32W	1.6	3.2
Energy consumption in unit @medium speed per day	39W	1.95	3.9	12W	0.6	1.2
Tarriř/Unit of Electricity		7				
Electricity charges per year @max.speed (Rs.)		9581	19162		4088	8176
Electricity charges per year @medium speed (Rs.)		4982	9964		1533	3066
Energy saving per year @ max. speed	Hours	10		20		
	₹	5493		10986		

\* Above result is taken under standard condition actual savings may vary.

\* Above result is taken under standard condition actual savings may vary.



[www.photonicslights.com](http://www.photonicslights.com)



# SOLAR CCTV CAMERA



**Quick and Easy to Install**

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**Not dependent on a Local Power Supply**

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**Controlled from the Cloud**

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## BUS INTERIOR LIGHT



[www.photonicslights.com](http://www.photonicslights.com)

# GRID CONNECTED SOLAR STREET LIGHTS

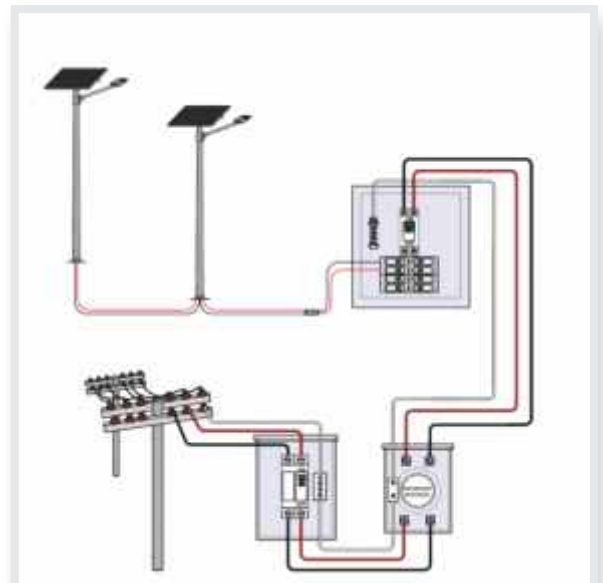


## Features

- High illumination level matching with urban needs
- Much reliable since the street light works with grid power during night time
- No batteries resulting in recurring expenses almost nil
- Totally climate responsive
- No additional infrastructural cost except solar panel and microinverter
- Continuous monitoring possible to ensure carbon neutrality.
- No electricity Bill

## Basic Requirements to Install Grid Connected Solar Street Lights

- Availability of reliable grid and pole
- Permission to connect micro inverter with grid under the State Electricity Regulatory Commission order.



## SOLAR LANTERN

**PHOTONICS Solar Lanterns** are best suited to the rural areas where electricity is not available. Made of advanced techniques these lanterns provide efficient and durable service life. With less maintenance and easy handling these lanterns burn automatically whenever required.

### FOR USE IN:

- Rural Areas
- Areas with no Electricity
- Emergency Zones
- Remote Installations
- Educational Institutions Industries



## SOLAR HOME LIGHTING



**PHOTONICS's Solar Home Lighting System (SHLS)** harnesses the sun's energy to light up your home and power your small appliances. With benefits that extend both to your wallet and to the environment, PHOTONICS's Solar Home Lighting System is not just a 'brilliant' idea; it is a 'responsible' one.

**PHOTONICS's Solar Home Lighting System**, compact, portable and easily mountable, is an economical solution to all your power problems and comes in an easy-to-install kit.

- Economical
- Non-Polluting
- No Maintenance

## SOLAR WATER PUMPS 1 to 50 HP

### Features :

- Three phase low voltage and high voltage AC submersible pump
- MPPT VFD pump controller
- Low maintenance of pump
- AC motor
- Soft starter feature prevents water hammering and increases system life
- Easy to install
- GI structure with the manually movable option





## Photonics Team with Prominent Personalities



### PHOTONICS Team with

Her Excellency  
Ms. Lesego Ethel Motsumi, High Commissioner  
& Ambassador of Botswana Republic to India &  
Mr Morulaganyi Masalila, Director (International  
Business), Botswana Investment & Trade Center







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