



ELGIN SOLAR LIGHT

INTEGRATED SYSTEM

Jointly Launched by

ELGIN SYSTEM INC., CANADA

ELGIN SYSTEM (INDIA) PRIVATE LIMITED

For a Clearer Sky

ELGIN SOLAR LIGHT

into

Health & environment protection

Green energy saves earth

Corporates Brief

Elgin System Inc. (ESI), a Canada based technology R & D Corporation in the field of betterment of the pollution control, provides the tailored technical solutions for the emission control of SPM and the Solar Energy.

Elgin System (India) Private (ESIPL), an extended arm of ESI in India, serves the India market in the fields of emission control in Thermal Power sector and develops the Rooftop Solar Projects.

Elgin System (India) Private Limited (ESIPL) has its registered office and full fledged team at Raipur in Chhattisgarh state of India to implement the projects and carry out the service after sales.

Solar Lights in India

The sun is an inexhaustive, reliable, non-polluting source of power. Globally more and more emphasis is being laid towards the use of renewable sources of energy because of climate change, local air pollution and resource scarcity, in this regard photovoltaic (PV) is best suited as an alternative source of energy in India where clear 300 Days of sunshine is available. Solar powered outdoor lighting products are ideal for lighting the area in remote locations where electricity is unavailable or erratic. Even in urban areas these find great usage to reduce the dependency on conventional power and contribute towards green living.

The government of India gradually and steadily is encouraging the use of solar power through their various schemes.

We devote ourselves into the betterment of the performance of these integrated lighting systems through various system optimizations.

What we do is follow strict quality control procedures to maintain the quality standards of our solar light products to deliver the maximized and perfect performance.

WHY SOLAR ?

India has 300 clear days of sunshine every year.

Established technology globally.

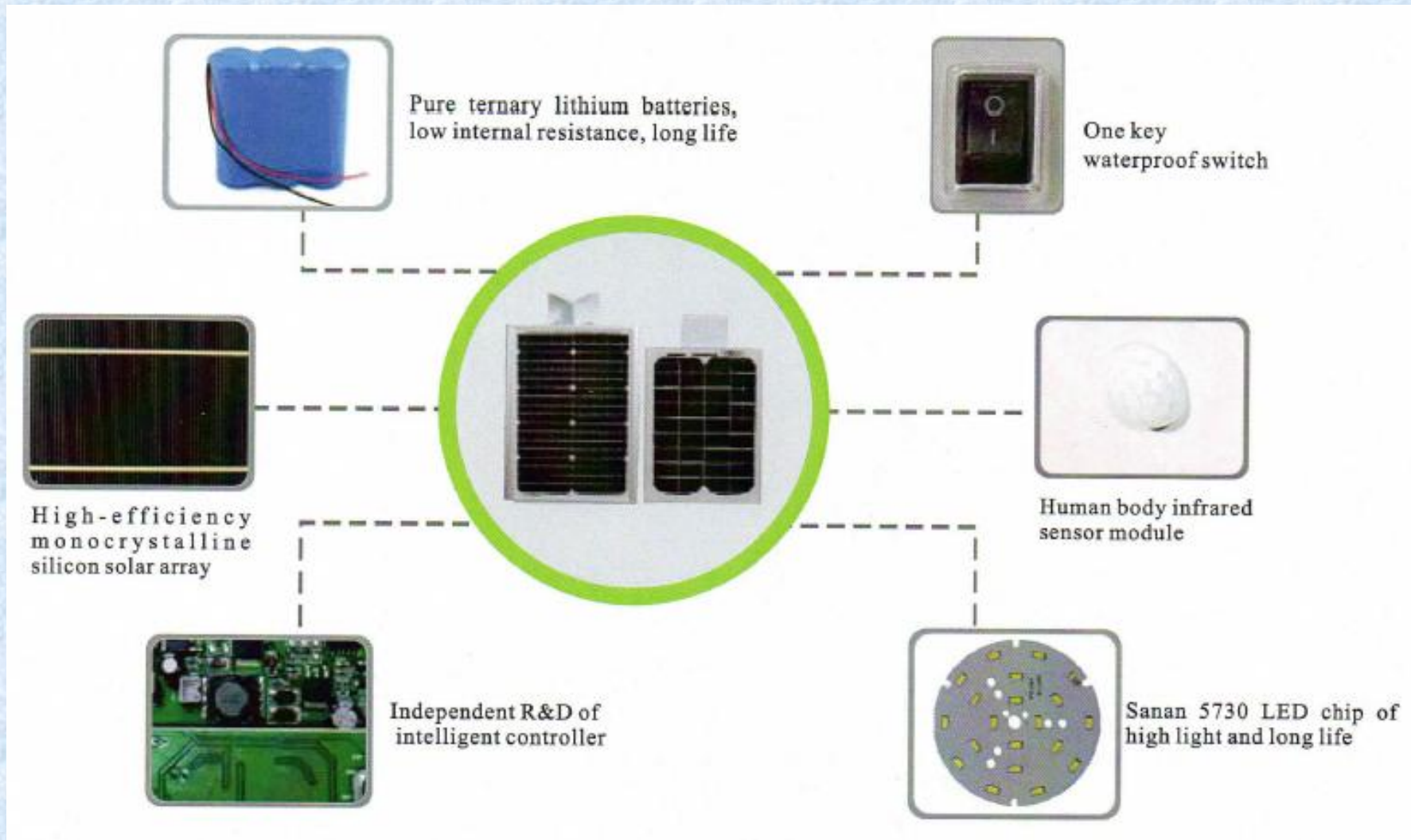
Power Generated at the point of consumption.

No cabling cost.

No cost of accessories (like transformers, distribution systems & switches etc,.)


Negligible Maintenance.


PRODUCT FEATURES

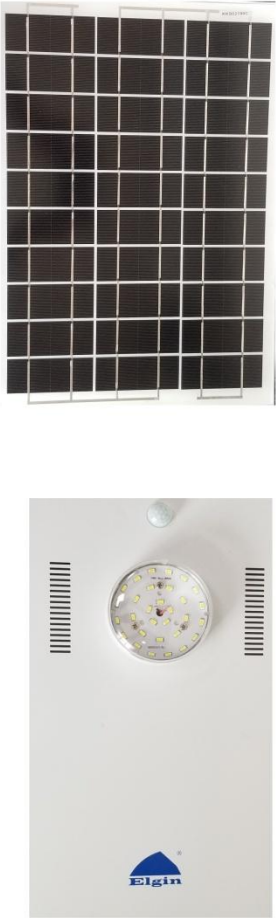


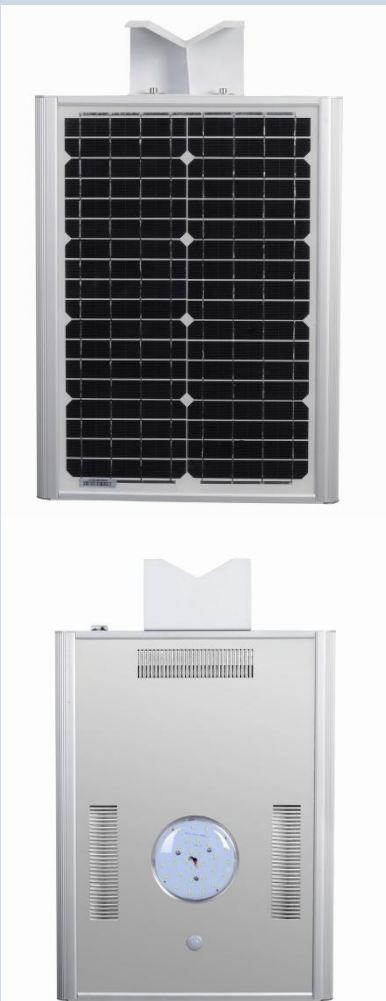



OUR PRODUCTS

MODEL No. / POWER	IMAGE	SPECIFICATION
ET5W / 5W		<p> Solar Panel : High Efficiency Monocrystalline Silicon 6W Light Source : LED Light(Sanan 2835) Luminous Flux : 380LM Lithium Battery : 6.6AH Installation Height : 3m Working Time : rainy 1-2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grade : IP65 Product Size : 330*175*90mm Net Weight : 1.4KG Gross Weight : 1.85KG Packing Size : 360*240*110mm Packing Volume:0.01m3 </p>


MODEL No. / POWER	IMAGE	SPECIFICATION
ET10W / 10W		<p> Solar Panel : High Efficiency Monocrystalline Silicon 15W Light Source : LED Light(Sanan 2835) Luminous Flux : 800LM Lithium Battery : 4.4AH (12V) Installation Height : 5m Working Time : rainy 1-2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grade : IP65 Sensor : Body Induction & Light-Dependent Control Product Size : 410*250*90mm Net Weight : 2.2KG Gross Weight :2.9KG Packing Size : 460*280*110mm Packing Volume:0.013m3 </p>

MODEL No. / POWER	IMAGE	SPECIFICATION
ET15W / 15W		<p>Solar Panel : High Efficiency Monocrystalline Silicon 20W Light Source : LED Light (Bridgelux3030) Lumen : 1200LM Lithium Battery : 6.6AH(12V) Installation Height : 3-6m Working Time : rainy 3-4days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grade : IP65 Sensor : Body Induction Product Size : 460*250*90mm Net Weight : 3.5KG Gross Weight : 3.8KG Packing Size : 625*320*110mm Packing Volume:0.022m3</p>


MODEL No. / POWER	IMAGE	SPECIFICATION
ET20W / 20W		<p> Solar Panel : High Efficiency Monocrystalline Silicon 28W Light Source : LED Light(Sanan 5730) Lumen : 1600LM Lithium Battery : 8.8AH(12V) Installation Height : 3-7m Working Time : rainy 2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grade : IP65 Sensor : Body Induction & Light-Dependent Control Product Size : 530*400*45mm Net Weight : 5.6KG Gross Weight : 6.8KG Packing Size : 660*465*130mm Packing Volume: 0.04m3 </p>


MODEL No. / POWER	IMAGE	SPECIFICATION
ET24W / 24W		<p> Solar Panel : High Efficiency Monocrystalline Silicon 30W Light Source : LED Light (Bridgelux3030) Lumen : 1920LM Lithium Battery : 11AH(12V) Installation Height : 4-8m Working Time : rainy 5-7 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grade : IP65 Sensor : Body Induction /Time control (Selectable) Product Size : 800*230*45mm Net Weight : 6.35KG Gross Weight : 7.65KG Packing Size : 880*260*220mm Packing Volume: 0.05m3 </p>

MODEL No. / POWER	IMAGE	SPECIFICATION
ET30W / 30W		<p> Solar Panel : High Efficiency Monocrystalline Silicon 40W Light Source : LED Light(Sanan 5730) Luminous Flux : 2400LM Lithium Battery : 13.2AH(12V) Proposed Pole Height : 6-8m Working Time : rainy 2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grade : IP65 Sensor : Body Induction & Light-Dependent Control Product Size : 655*400*45mm Net Weight : 6.6KG Gross Weight : 7.95KG Packing Size : 800*465*130mm Packing Volume:0.05m3 </p>

MODEL No. / POWER	IMAGE	SPECIFICATION
ET40W / 40W		<p> Solar Panel : High Efficiency Monocrystalline Silicon 50W Light Source : LED (Bridgelux 45ML) Luminous Flux : 3300LM Lithium Battery : 17.6AH(12V) Proposed Pole Height : 6-8m Working Time : rainy 2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grades : IP65 Sensor : Body Induction & Light - Dependent Control Product Size : 790*400*45mm Net Weight : 8.5KG Gross Weight : 9.8KG Packing Size : 940*460*130mm 5. Packing Volume:0.056m3 </p>

MODEL No./POWER	IMAGE	SPECIFICATION
ET60W / 60W		<p> Solar Panel : High Efficiency Monocrystalline Silicon 70W Light Source : LED(Bridgelux 45ML) Luminous Flux : 6000LM Lithium Battery : 26.4AH(12V) Installation Height : 7-10m Working Time : rainy 2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grades : IP65 Sensor : Body Induction, Delayed induction & Light-Dependent Control Product Size : 1250*400*45mm Net Weight : 15KG Gross Weight : 17KG Packing Size :1300*460*130mm Packing Volume:0.0103m3 </p>

MODEL No. / POWER	IMAGE	SPECIFICATION
ET80W / 80W		<p>Solar Panel : High Efficiency Monocrystalline Silicon 90W Light Source : LED(Bridgelux 45ML) Luminous Flux : 8000LM Lithium Battery : 17.6AH(24V) Installation Height : 7-10m Working Time : rainy 2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 hrs. Grade : IP65 Sensor : Body Induction, Delayed induction & Light-Dependent Control Product Size : 1490*400*45mm 2.Net Weight : 17.2KG 3.Gross Weight : 19.5KG 4.Packing Size : 1550*460*130mm 5. Packing Volume:0.114m3</p>

MODEL No. / POWER	IMAGE	SPECIFICATION
ET100W / 100W		<p>Solar Panel : High Efficiency Monocrystalline Silicon 120W Light Source : LED (Bridgelux 45ML) Luminous Flux : 10000LM Lithium Battery : 22AH(24V) Installation Height : 10-12m Working Time : rainy 2 days Working Temperature : -20 C ~ 60 C Charging Time : 6 – 8 h Grades : IP65 Sensor : Body Induction, Delayed induction & Light Dependent Control Product Size : 1800*400*45mm 2.Net Weight : 22.5KG 3.Gross Weight : 25KG 4.Packing Size : 1870*460*130mm Packing Volume:0.144m3</p>

OTHER TECHNICAL DETAILS

Sl.No.	LED Watt W	LED Lumens Lum	Luminous Efficacy Lum/Watt	Beam Angle In Degrees	Area Covered In (m ²)
1	5	380	76	120°	42
2	10	800	80	120°	75
3	15	1100	73	120°	95
4	20	1400	70	120°	118
5	24	1550	65	120°	142
6	30	2100	70	120°	170
7	40	3300	83	120°	241
8	60	6000	100	120°	382
9	80	8000	100	120°	471
10	100	10000	100	120°	679

WARRANTY OFFERED

This product is fully guaranteed against defective materials and manufacturing defaults inclusive of parts and services for a period of 12 months from the date of purchase.

The warranty period of 15 years shall apply once to the solar panel.
Standard warranty of 2 years will apply once to LED of Solar Lights.
1 year warranty shall apply once to Battery of Solar Lights.

The company also provides various extended warranty schemes on the Battery at an additional cost.

Advantages of Solar Lights

No line voltage, trenching, or metering

No power outages

Battery backup for cloudy or rainy days

Independent power and light source- no two systems are connected, hence no single point of failure.

Easy to install

No maintenance except for the battery

No cost of transformers or meters to be added for electric service

Qualify for savings from various state taxes and incentives

No monthly electric bills

Controlled charging to prolong battery service life

Long-life PV modules with more than 25 years of power generation capacity

Environment friendly - 100% powered by the sun, solar panels reduce fossil fuel consumption, eliminating pollution

IP 65 Luminaries ensures long lasting and consistent high performance

Safe 12/24 volt circuit, no risk of electric shock.

Comparisons between Solar lights and Traditional Lights

Sl. No	Content	Solar light	Traditional light
1	Power Source	Solar Radiation free of cost	Electricity on chargeable basis by Electricity Board
2	Civil works	Pole foundation	Pole foundation, excavation, cable trench, soil back fill, tubing, cabling
3	Erection & Installation	Direct bolt fixing	Direct bolt fixing, cable wiring and connection
4	Other accessories	Only solar radiation required, independent operation, simple construction, low labor cost and accessories cost	Complexity cabling, higher labor cost and accessories cost
5	Controls and flexibilities	Mini-controller, no noise, flexible control on different solar light installed on same area	Large control box, high noise with disturbance and pollution, no flexible control on each or certain group of lights, waste of the energy
6	Power source configuration	Solar radiation free of cost	requires certain capacity of transformer and transmission line, power distribution cabinet required
7	Safety	12V to 24V DC extra low voltage	220V AC power supply with hidden safety issue
8	Potential issues	No direct sun radiation due to surrounding buildings or trees	Quality of construction, aging of cable, disturbed power supply or conflict with the other utilities like water piping, gas piping, etc.
9	Power voltage	Maintenance free Li-battery, independent power supply system, intelligent DC control, power saving after mid night when less movement of human	The voltage of the lights is easy to have large fluctuation due to the power grid variation. After mid night and when the peak power consumption is higher, the voltage increases dramatically and some times reaches 270V and results in energy waste and also reduce the life of the lights
10	Maintenance cost	Once-investment, no maintenance cost	Fixed tariff and require cable or circuit maintenance and this maintenance cost will increase year by year

APPLICATIONS

- Street lighting
- Roadway lighting
- Pathway lighting
- Ramp lighting
- Sidewalk lighting
- Private road lighting
- Farm lighting
- Wildlife area lighting
- Perimeter security lighting
- Park lighting
- Gate lighting
- Railway yard lighting
- Fence lighting
- Campus lighting
- Ship dock lighting
- Remote area lighting
- Military base lighting
- Jogging path lighting





Park lighting



Gram panchayat lightning



Sirpur forest lightning



Perimeter security lighting



Roadway lighting

24W



Private road lighting



Campus lighting



Car Parking

INSTALLATION DETAILS

Model		ET-15	ET-20	ET-24	ET-30	ET-40	ET-60	ET-80	ET-100
LED	Power	15W	20W	24W	30W	40W	60W	80W	100W
	LED brand	Bridgelux 3030	Sanon 5730	Bridgelux 3030	Sanon 5730	Bridgelux 45ML			
	Luminous Flux (LM)	1200	1600	1920	2400	3300	6000	8000	10000
	Life	40,000 hours							
Solar Panel	Power	20W	28W	30W	40W	50W	70W	90W	120W
	Cell	High Efficiency Monocrystalline silicon							
	Life	25 years							
Battery	Capacity	6.6AH 12V	8.8AH 12V	11AH 12V	13.2AH 12V	17.6AH 12V	26.4AH 12V	17.6AH 24V	22AH 24V
	Type	LV lithium							
	Life	3 years							
Charging Time	Regular	6h to 8h							
Temperature		-20°C ~ 60°C							
Height for Installation		3M to 6M	3M to 7M	4M to 8M	6M to 7M	6M to 8M	7M to 10M	7M to 10M	10M to 12M
Pitch for installation		10M to 15M	15M to 20M	15M to 20M	20M to 25M	25M to 30M	30M to 40M	40M to 50M	50M to 60M

Recommended Pole Design & Height for 10W to 40W

Pole Length Adjustable

6m

5.5m

4.5m

4m

3.5m



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POLE DESIGN DETAILS


Sl.No.	Pole Height In Mtrs	Diameter 1 In mm	Diameter 2 In mm	Diameter 3 In mm	Wall Thickness In mm	Base Plate In mm
1	3.5	100	75	50	3	250x250x12
2	4	100	75	50	3	250x250x12
3	4.5	100	75	50	3	250x250x12
4	5.5	125	100	75	3	300x300x16
5	6	125	100	75	3	300x300x16



ELGIN INTEGRATED SOLAR LIGHT

Quality controlled by

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