



SOLAR LED STREET LIGHTING SOLUTION

Concerns over global climatic change, local air pollution and resource scarcity make photovoltaic (PV) an increasingly attractive energy supply technology, the sun being an in-exhaustive, reliable, non-polluting source of power. Using solar energy with LEDs instead of CFL provides a very efficient solution. Solar powered outdoor lighting products are ideal for lighting the area in remote locations where the electricity is unavailable or erratic. Even in urban areas, solar led street lights find great usage to reduce dependency on conventional power and contribute towards green energy. Reliable and long life makes this solution effective in fulfilling our present and future lighting requirements.

Salient Features

- ⌚ No line voltage, trenching or metering
- ⌚ No power outages
- ⌚ Easy to instal
- ⌚ No maintenance except for the battery
- ⌚ Better and long life light source – LED lights feature white light without flickering and instant on
- ⌚ Safe 12/24 volt circuit, no risk of electric shock
- ⌚ Self contained solution light on/off controlled by automatic day light sensing
- ⌚ Auto Dimming Function
- ⌚ Battery backup for cloudy or rainy days
- ⌚ Automatic dusk dawn operation (Timer optional)
- ⌚ No running cost



SOLAR LED STREET LIGHT SPECIFICATION

Luminary Rating	7W	10W	12W	18W	20W	30W	40W	50W	60W
LED Type	Chip led 1.2W 3030 OSRAM								
No. Of LED	12	15	21	27	30	48	60	75	90
Nominal voltage	12V DC								
Wattage ±5%	7W	10W	12W	18W	20W	30W	40W	50W	60W
Type	W-LED								
Luminous efficacy	> 100 Lumen /Watt								
Color temperature range	5500°K-6500°K								
Life time	50,000 hrs								
Colour rendering index	> 80								
Viewing Angle	120°								
Charge controller type	Microcontroller based MOSFET drive PWM								
Charge controller rating ±0.5A	6A			10A			15A		
Charging efficiency	> 90%								
Auto dusk to down	Provided								
Auto dimming	5.30 ~ 6 Hour								
Lighting quality	Uniform illumination , free fom glare and flickering								
Working temperature	-20°C to 55°C								
Humidity	35 to 85% RH								
Temperature Compensation	Provided								
Load regulation	< 2%								
Material	ADC12 alluminum alloy PDC housing								
Diffuser	Poly carbonate (PC) /Glass								
Gasket	Silicone gasket								
IP rating	IP65								
Low Voltage cut off ±0.2V	11.1V								
Load reconnect ±0.2V	12.5V								
Over charge Cut-off ±0.2V	14.4V								
Reverse current flow through the PV module	Provided								
Open Circuit Protection	Provided								
Short circuit protection for LED drive	Provided								
Battery Reverse polarity protection	Provided								
SPV Module Reverse polarity protection	Provided								
Battery charging current limit	Provided								
Surge protection	Provided								
Green LED	Blink in charging & contnuous on when charged								
Red LED	Blink when batt. Low								
Fault	Green and RED led Continuous ON								
Light output in Lux 4 mtr.	Min 16 Lux measured at the periphery of 4 meater diameter from a height of 4			Street lamp should have illumination not less than 0.5 Lux/Watt perpendiculars from the height of 9 m.					
Panel Power (Pmax)	40Wp	60Wp	75Wp	100Wp	100Wp	120Wp	150Wp (75Wp*2)	200Wp (100Wp*2)	200Wp (100Wp*2)
Panel Voc Max	25V DC								
Battery Type	Flooded/VRLA								
Battery Capacity C/10	30Ah C/10	40Ah C/10	50Ah C/10	75Ah C/10	75Ah C/10	100Ah C/10	120Ah C/10	150Ah C/10	150Ah C/10
Pole Detail	GI 5 Meter			GI 5 -7 Meter (Optional)			GI 5 -9 Meter (Optional)		

A vented, acid proof and corrosion resistant metallic /Plastic box with a locking arrangement for outdoor use should be provided for housing the battery

Note : BATTERY LOW VOLTAGE CUT OFF CAN BE ADJUSTABLE AS PER CUSTOMER REQUIREMENTS AND LEAD ACID ,GEL & SMF BATTERY CAN BE USED.

: ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

:SOLAR PV MODULE ,BATTERY & POLE SPECIFICATION CAN REF . TO SPECIFIC PRODUCT BROCHURE AS PER REQUIREMENTS .

Lento Industries Private Limited, India

www.lentoindia.com

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Marketing Office:
17, B Block, DDA Market,
Dilshad Garden, New Delhi, India
Tel.: +91-1165912334

Contact at:

Manufacturing:

ADVANCE ELECTRONICS

19-B Industrial Park 2, Haridwar, Uttarakhand (India)

Ph: +91 1334-232631

E-mail: exports@lentoindia.com, Web: www.lentoindia.com





AC LED STREET LIGHTING SOLUTION

A Street Light, Light pole, lamp post & street lamp is a raised source of light on the edge of a road or walkway. Modern lamps may also have light-sensitive photo cells that activate automatically when light is or is not needed: dusk to dawn, or the onset of dark weather. This function in older lighting systems could have been performed with the aid of a solar dial. Many street light systems are being connected underground instead of wiring from one utility post to another.

Salient Features

- ⌚ No line voltage, trenching or metering
- ⌚ No power outages
- ⌚ Easy to instal
- ⌚ Better and long life light source – LED lights feature white light without flickering and instant on
- ⌚ Safe 12/24 volt circuit, no risk of electric shock
- ⌚ Self contained solution light on/off controlled by automatic day light sensing
- ⌚ Energy saving
- ⌚ High illumination
- ⌚ Minimum maintenance
- ⌚ Automatic dusk dawn operation (Timer optional)
- ⌚ No running cost



AC LED STREET LIGHT SPECIFICATION

Sr No	TESTING PARAMETERS	SPECIFICATIONS										
		20W	25W	30W	35W	40W	45W	60W	70W	100W	120W	150W
(A)		General Characteristics										
1	Body	Aluminium casting body										
2	LED Type	Chip led 1.2W 3030 OSRAM										
2	No. Of LED	35	42	49	56	63	72	91	112	150	180	210
(B)		Electrical details										
1	Wattage ±5%	20W	25W	30W	35W	45W	60W	70W	100W	120W	150W	
2	Driver Efficiency @220V	>85%										
3	Rated Voltage	220V AC										
4	Voltage Range ±10V	100-300V AC	100-300V AC	140-300V AC	140-300V AC	140-300V AC	140-300V AC	100-300V AC	100-300V AC	100-300V AC	100-300V AC	100-300V AC
5	Line Frequency ±1Hz	50Hz										
6	Output Constant Current ± 20mA	700mA	700mA	700mA	700mA	900mA	900mA	700mA	700mA	700mA	700mA	700mA
7	PF	>0.9										
8	Input Current ± 20mA	100mA	120mA	150mA	160mA	185mA	205mA	272mA	320mA	430mA	520mA	520mA
(C)		Light technical detail										
1	Color temperature	5500-6500°K										
2	CRI	>70										
3	Lumen Efficiency (lm/w)	100										
(D)		Safety details										
1	Open circuit protection	Yes										
2	Short Circuit protection	Yes										
3	Surge Protection	4.0KV										
4	H.V Voltage	>2.0KV										
5	Protection gard	IP65										
(E)		Product Dimension										
1	Total Length	335MM	335MM	380MM	380MM	380MM	380MM	450MM	450MM	520MM	520MM	520MM
2	Body Length	270MM	270MM	310MM	310MM	310MM	310MM	365MM	365MM	420MM	420MM	420MM
3	Body Width	105MM	105MM	145MM	145MM	145MM	145MM	212MM	212MM	279MM	279MM	279MM
4	Body Height	60MM	60MM	65MM	65MM	65MM	65MM	65MM	65MM	65MM	65MM	65MM
5	Holding Fixture Pipe inner Dia	ID42mm, OD50mm	ID42mm, OD50mm	ID42mm, OD50mm	ID42mm, OD50mm	ID42mm, OD50mm	ID42mm, OD50mm	ID60mm, OD72mm	ID60mm, OD72mm	ID80mm, OD100mm	ID80mm, OD100mm	ID80mm, OD100mm
Pole Detail	GI 5 Meter (Optional)	GI 5 -7 Meter (Optional)					GI 5 -9 Meter (Optional)					

Note : ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

* Product with higher ratings are available as per customer's demand.

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