

SOLAR LED STREET LIGHT

FEATURES

- ▶ Significant cost savings in avoiding to lay down electrical wires, distribution points, employing labor and doing away with digging hassles
- ▶ High durability of solar panels and LEDs. Both solar panels and LEDs last for more than 10 years. In comparison, the conventional sodium and CFL lamps typically require replacement at least once every year
- ▶ Close to a month's time saved in newly constructed places as a result of easy installation (feedback from builders)
- ▶ Zero electricity cost
- ▶ Environment friendly and easy disposal due to absence of harmful substances like mercury and lead
- ▶ Less heat dissipation
- ▶ Higher color temperature of light (purer form of light)
- ▶ Carbon Credits and subsidies may be availed for large installations
- ▶ Cleaner and Greener environment to breathe

OUT PRODUCTS



SPECIFICATION

SOLAR LED STREET LIGHT				
Model	LED Watt	Battery	Module	Pole
SSL9	9W	26AH	50W	15 Feet
SSL12	12W	42Ah	50W	15 Feet
SSL15	15W	65Ah	60W	17.5 Feet
SSL18	18W	75Ah	75W	17.5 Feet
SSL24	24W	100 AH	100W	17.5 Feet
SSL30	30W	120 AH	150W	20 Feet

Reflow soldered OSRAM LEDs should be used with cool white light output. LEDs which can be hand soldered should not be used so as to minimize human interference and increase the reliability of LEDs

1. 150 lm /LED at 350mA
 2. Asymmetric lenses with 85x135 angle for optimal spread on streets. Lenses should be such that the light output falling behind the pole should be minimized and falling in front and laterally should be maximized
 3. Power saving mode after 6 hours of operation up to 50% of savings for longer life
- Electronics:**
4. Microcontroller based PWM charging with the following features:
 - a. Constant Current Phase: all charge current available is used to charge battery.
 - b. Constant voltage Phase: Constant battery voltage towards end charge to prevent excessive gassing
 - c. Float Stage (below gassing voltage to avoid electrolyte loss)
 5. Constant Current driver. Driver efficiency > 90%
 6. Reverse polarity protection without the use of fuse to ease up installation in spite of human error
 7. Battery charge indicator for different levels of the battery should be present on the fixture, indicating at least 4 levels of battery for easier maintenance. Apart from this, low battery & charging indicators should also be present
 8. Parallel back up LED pads with each LED should be present so as to replace the LEDs easily in case one of them fails in future

9w Solar Led street light system

Model No:	ASL9W
Solar Panel:	12V 50W
Battery Size:	26AH EXIDE SMF
Dimming Option:	YES
Driver Efficiency:	Greater than 85%
LED Luminous Efficiency:	>80%
LED Working Voltage:	3.18v(350ma)
Number Of LEDs:	18
Power Consumption:	9W
LED Luminous Efficiency:	>=130lm/W
CRI:	70-82
Light Source:	OSRAM/CREE
Height Of Pole:	4.5 M Powder Coated
Recommended Pole Distance:	8m-10m
Maximum Current Consumption:	350ma
Max Temperature of Heat Sink:	65°C
LED Beam Angel:	80°/td>
Storage Temperature:	35°C
Working Life:	60000 HRS
Body Type:	High Pressure Aluminium Die Cast
Dimensions:	320x140x45mm
Pipe Diameter:	60mm
Weight:	2 Kg
IP Rating:	IP65
Warranty:	5 Years



12w Solar Led street light system

Model No:	ASL12W
Solar Panel:	12V 50W
Battery Size:	42AH EXIDE SMF
Dimming Option:	YES
Driver Efficiency:	Greater than 85%
LED Luminous Efficiency:	>80%
LED Working Voltage:	3.18v(350ma)
Number Of LEDs:	24
Power Consumption:	12W
LED Luminous Efficiency:	>=140lm/W
CRI:	70-82
Light Source:	OSRAM/CREE
Height Of Pole:	4.5M Powder Coated
Recommended Pole Distance:	8m-10m
Maximum Current Consumption:	350ma
Max Temperature of Heat Sink:	65°C
LED Beam Angel:	80°/td>
Storage Temperature:	35°C
Working Life:	60000 HRS
Body Type:	High Pressure Aluminium Die Cast
Dimensions:	320x140x45mm
Pipe Diameter:	60mm
Weight:	2.Kg
IP Rating:	IP65
Warranty:	5 Years

