

Solar LED Street Lighting System

Suntron

LED's have a number of useful properties such as directionality, specific colour and high efficiency. Ammini takes advantages of the inherent qualities of LED's for designing its latest range of Solar LED Street Lighting Systems. Lithium Battery packs is used in the solar Street Lighting system which have more life. The system is ready to be used containing a solar module, battery, pole, battery enclosure, connecting wires and the necessary hardware.

Features

- Automatic Dusk to Dawn Controller (DTDC) / Timer operation
- Extremely long life LEDs (>50,000 Hrs)
- High Power LED
- Attractive and weather proof luminaries (IP-66 Rated)
- PC light diffuser
- LiFePO4 Battery Packs

Compliance & certifications

- Manufactured at a ISO 9001:2015 certified facility
- LED Luminaries are LM-79 Certified
- LM-80 Test Report for LED

Specification

General

Model	Suntron 8W	Suntron 20W	Suntron 36W
Application	Solar Powered Lighting, Outdoor use		
Daily operation / Autonomy	12 Hrs (DTDC) / 3 days		
Light Output	>800 Lumens	>2000 Lumens	>3600 Lumens

System Components

PV Module	75Wp	150Wp	200Wp
Battery	250Whr LiFePO4	768Whr LiFePO4	1152Whr LiFePO4
LED Luminaire	8W	20W	36W
Solar Charge Controller	12V MPPT	12V MPPT	24V MPPT
Erection Pole	4m, Dia 3"	4m, Dia 4"	5m, Dia 3"
Module Mounting Structure	Mild Steel, Galvanized, Pole Mounting type		
Battery Enclosure	Pole Mounting type, Moulded Plastic		

Electrical

Luminaire	Boost converter, Efficiency >90%, Frequency 30 khz
LED type	High efficiency and long life white LED
Rated LED life	>50,000 burning hours
Solar Charge Controller	MPPT, Efficiency > 95%, Idle current <5mA
Display / Indications	Battery Low warning, Battery Low disconnect, Battery charging, Battery Full charge
Load side protection	No load protection, Short circuit protection, Reverse polarity protection
Battery side protection	Reverse Polarity, Over charging, Deep discharging, Battery Temperature Compensation
PV Module side protection	Reverse polarity, Reverse current flow to PV Module during night

Ordering Information

Model	Ordering Code	Description
Suntron 8W	LSS-07508E	75Wp Solar PV Module, 8W LED Luminaire, Battery 250Whr LiFePO4
Suntron 20W	LSS-15020E	150Wp Solar PV Module, 20W LED Luminaire, Battery 768Whr LiFePO4
Suntron 36W	LSS-20036E	200Wp Solar PV Module, 36W LED Luminaire, Battery 1152Whr LiFePO4

For Information

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