MSSL80W | 80W Solar Street Light

Built-in dimmable LED Driver. Controller is set to run 6 hours at 100% power and remainder of the night 70% power. Light: 54 X CREE XTE – Cool White 5K5 - 10400lm Battery Capacity and type: 25.2V Lithium Battery Controller: SmartLED 8A with day/night sensor Solar Panel: 100W X 3; Battery Capacity 1350Wh Charge Time with full sunshine: 3.5 Hours Light Coverage: Approximately 35m X 10m rectangle Bracketing: Includes battery box bracket, solar panel bracket and light bracket Pole Frequency - 35m

Luminaire	
Luminaire Power	80,00 W
Lumen	12 800
LED Type	SMD
LED Name	Philips Lumileds
Lens	PMMA
LED Temperature	5000K
Beam Angle	150deg/80deg
Coverage	370m²
CRI	>80

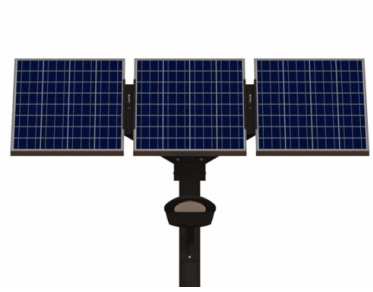
Battery	
Chemistry	Lithium-Ion
Amp Hours	67Ah
Watt Hours	1 740
Cycles	>2000

Solar Panel	
Panel Total W	300
Panel Voltage	54V
Panel Current	5.56 A

Controller	
Controller Type	MPPT SmartLED
Controller Size	15A
Controller Program	6hrs 100%, 7hrs 70%
Controller Protections	Over-Charge, Over-Discharge, Temp Compensation
Controller Sensor	Built-in Day/Night Sensor
Operating Temp	-10 to 45 deg C
IP Rating	IP68

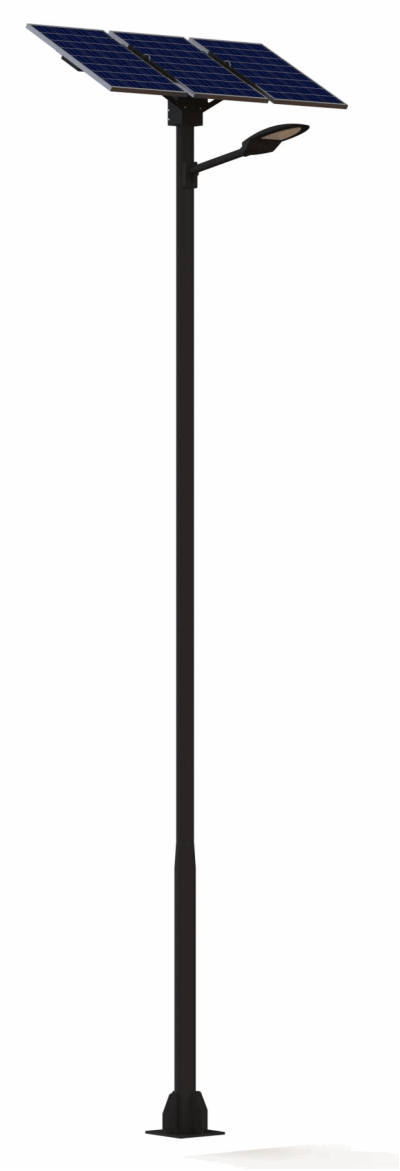
With the battery neatly concealed within the solar panel bracket, installation is quick and easy. The only real considerations are aiming the light and panel in the desired directions.

Installation	
Mounting Height	8m
Pole-to-Pole	35-40m
Pole Top Size	127
Power Box Type	MB-67-T
Steel Description	High Quality Galvanized
Warranty	3 Years
Pole or Base	Not Included



In order to protect against corrosion, all metal used in our products is either galvanized steel or aluminium. The steel is powder-coated with a 'structure'UV resistant expoxy.
Our warranty on all parts is 3 years.

We use lithium ion batteries as they have many benefits over lead acid battery types. The storage/weight ratio of lithium batteries allows us to make larger lighting systems for single poles. Lithium batteries also charge faster, use more of the battery and have a much longer cycle life. The extra cost of a lithium ion battery is easily countered by the saving on the steel and aluminium structures we use to hold and carry our systems. All of our batteries have intelligent Battery Management Systems to ensure high accuracy and safety of charging and discharging.



The options for installing poles for lighting are:

Base Plate Pole: This pole requires a bolt cage to be submerged into the ground and set in concrete. The Pole is then bolted onto the bolt cage.

Stepped Pole: Our stepped poles are inserted directly into the ground and concreted in place. The poles will need to be supported vertically until concrete has set. This installation method is less expensive than a base plate pole.

Standard Pole: For some smaller installations, you may use a standard pole. Which is a simple length with no steps or base plate. This pole will also be inserted directly into the ground and concreted in place.

Wall Pole: For lighting around buildings, the wall pole is bolted onto the wall, and the light and solar system installed on the pole.

Installation Options