

# MSFL120W | 120W Solar Flood Light



Our flood light systems are ideal for lighting general areas which require wide angle lighting. Built-in solar controller - set to run 100% for 6 hours then 70% for remainder of night Battery Capacity and type: 25.9V Lithium Battery Charge Time with full sunshine: 3 Hours. Light: SMD – Cool White 4K 19800 Lumen. Hardware: Includes all steel bracketing, battery, light, solar panels, controller and all nuts and bolts required for installation. Pole not included.

## Luminaire

Luminaire Power	120,00 W
Lumen	19 200
LED Type	SMD
LED Name	Philips Lumileds
Lens	PMMA
LED Temperature	4000K
Beam Angle	150deg/80deg
Coverage	600m <sup>2</sup>
CRI	>80

## Battery

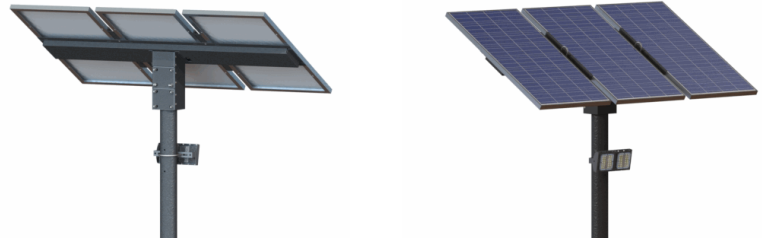
Chemistry	Lithium-Ion
Amp Hours	77Ah
Watt Hours	1 994
Cycles	>2000

## Solar Panel

Panel Total W	360
Panel Voltage	54V
Panel Current	6.67 A

## Controller

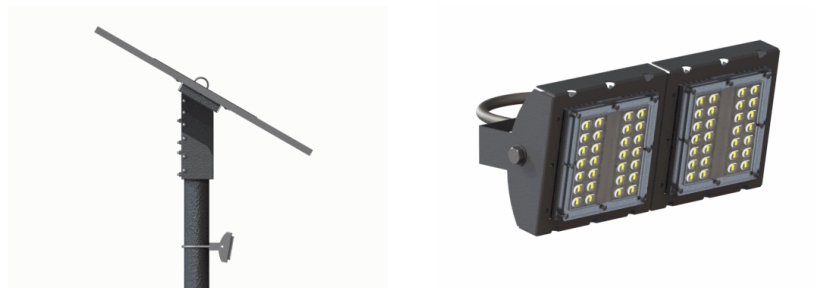
Controller Type	MPPT SmartLED
Controller Size	15A
Controller Program	6hrs 100%, 7hrs 70%
Controller Protections	Over-Charge, Over-Discharge, Temp Compensation
Controller Sensor	Built-in Day/Night Sensor
Operating Temp	-10 to 45 deg C
IP Rating	IP68



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	35m
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 epoxy. 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**

