





Head Office

1/3-5 McElligott Court Canning Vale, WA, 6155 08 6141 3204

















1.	MOSL	X	Mode	اد
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20W	30W	40W	60W	80W	100W	
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2. Main Parts



Outer Chassis	Outer casing for MOSLX light		
LED Plate	Phillips LEDs		
Mode Button	Used to switch between available modes		
Power Switch	Used to turn the unit on and off		
Adjustable Spigot	Used for tilting the angle of the fitting when mounted		
Base Bracket plate	Bracket for mounting		
Microwave sensor	Motion sensor and display mode indicator lights		



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3. Setting up the MOSLX Unit

Step 1 – Your MOSLX Unit will come with a set of Allen keys, blue remote, screws and bolts to suit and the adjustable spigot. Please see below images.

Please ensure all items are present. If any items are missing, please contact MOMA Solar





Step 2 – Install base of adjustable spigot to the light fitting using supplied screws, Spring washers and Nylon washers and Allen key #1.





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Step 3 - Using Allen key #3 and largest suppled bolt, ensure spigot on light head is angled no more than 15° and tightened. Then ensure all four bolts have been loosely placed into the spigot using Allen key #2.

If any of these four bolts are missing please contact MOMA Solar for replacement parts.

The Adjustable bracket will need to be angled no more than 15°. Failure to do so could affect operation of unit. In order to do so, simply place the adjustable bracket at the 90° angle on the mounting bracket. Each notch is equal to 5°. By angling the spigot down towards the back of the unit 3 notches, a 15° angle will be accurately achieved.









Step 4 – Ensure light fitting is turned on using button located at the back of the of the light fitting. When the power button is pressed in the unit is off, when the button is flush the unit is on.







Unit is ON



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Step 5 – Press the mode button located next to the large round microwave sensor and cycle through all available modes before choosing your preferred mode. The LEDs should turn on briefly. When choosing your mode the indicator light in the microwave sensor will show briefly before returning to either Blinking Red (Not Charging) or Blinking Green (Charging).









Red Light

Orange Light

Green Light

Flashing Red Light

RED LIGHT

Microwave Control – 15 Hrs of sensor at 80% Brightness when people detected and 40% Brightness when no movement.

ORANGE LIGHT

Timing Control - First 5 Hrs at 80% Brightness, next 10 Hrs at 40% Brightness.

GREEN LIGHT

Timing & Microwave control – First 5 Hrs at 100% Brightness, next 10 Hrs of sensor at 30% Brightness when people detected and 10% Brightness when no movement.

FLASHING RED

Flashing Red - 15 Hrs at 70% Brightness

Please choose mode before mounting fitting to pole



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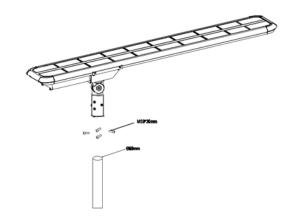






4. Mounting the MOSLX Unit

Step 1 - Use the supplied bolts to fix the Adjustable Spigot bracket to the top of the pole. Ensure adjustable spigot bracket is set to 15° to allow for optimal sun absorption. Tighten Bolts and ensure fitting is secure. If mounting unit to the MOMA Solar Pop Up unit please contact MOMA Solar for additional Instruction Manual



5. Using the Remote

Mode can be changed via remote, or mode button located on the MOLSX unit. Remotes are universal, require no syncing and can work across several MOSLX units.

To change via the remote, press the corresponding button to the Modes below:

Green Indicating Light | U: Timing & microwave control 5hrs 100%, 10hrs for 30% motion + 10% no motion

Red Indicating Light | M: Microwave control 15hrs 80% all night with motion (80% motion, 40% no motion)

Orange Indicating Light | T: Timing control 5hrs 80%, 10hrs 40%

Flash Red Indicating Light | L: Lighting control 15hr 70% constant brightness



The Power button will turn the light off for one night. The next night the light will turn back on. Light will be set to the most recently chosen mode.



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6. Common Installation Errors and Maintenance Guide

- 1. Avoid installing the light under shadowed or shaded areas or between two buildings/surrounding flora which height exceeds to the max height of the MOSLX fitting.
- 2. Do not use the light in environment temperatures above 60 degrees Celsius or below -10 degrees Celsius, otherwise this could cause a rapid attenuation of the battery and affect the battery life.
- 3. Please ensure all safety equipment and precautions are followed when installing the light.
- 4. Choose the suitable lighting mode according to local sunshine. Keep the device away from fire and oil to avoid any fire or explosion.
- 5. If the light does not receive charge for 10 days, the battery may be out of power. In this instance, please charge the battery under bright sunlight to ensure the maximum battery life. Unit will need to be turned on during this charging period.
- 6. In order to ensure that the light works in an ideal state for a long time, please clean the solar panel regularly according to the local dust conditions. Our suggestion is annually in normal conditions, or once every 3 months in high dust conditions.



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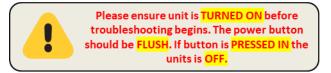




7. Troubleshooting Guide

The MOSLX solar street light is mainly composed of four parts:

- 1- Solar Panel,
- 2- Batteries,
- 3- LED lights,
- 4- Solar Controller.





If any parts of the unit have obtained physical damage the unit will not function efficiently. Please contact MOMA Solar in regards to availability of spare parts.

Failure of these main four parts will cause the entire system to fail, and the LED lights will not able function at night. So the MOSLX fault guidelines are based on the above 4 parts. The MOSLX Solar controller is the core part of the light which connects solar panel, batteries and LED lights, and controls the operation of the entire system.

There is an indicator light on the controller (microwave sensor), which can indicate the running status of the entire system, and it can be quickly determined which step maybe the issue.

When the MOSLX solar street light has not been operating for a period of time (LED has not worked during night period), it can be observed by the indicator light on the solar controller LED at night or in daylight (solar panel is covered) to help identify the fault. The indicator light on the controller can indicate the solar light status, as shown in Table 1.

Mode	Status	State
1	No Light	System off or system voltage fault
2	Green	Working Mode
3	Red	Working Mode
4	Orange	Working Mode
5	Red flashing (0.5HZ)	Working Mode
6 - 7	Red flashing (1HZ)	Load open circuit
8 - 9	Green flashing (1HZ)	Charging normally
10	Red Light but Green flashing (1HZ)	Battery over discharge, and it is charging
11	Red and Green flashing (2HZ)	Battery over discharge

Table 1 - Controller indicator status description



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- When the indicator is in Mode 1 (table 1), it may be a battery or solar controller failure. Please contact MOMA Solar on advice for resolving the fault. The above fault can be checked by testing with a Multi-meter to detect the battery voltage. Battery failure can be eliminated if the battery voltage is normal (the battery voltage range should be 10V~13.2V DC). Should the failure not come from the battery, the controller may have to be replaced.
- When the indicator is in mode 6 (table 1) it may be due to one of the 3 reasons stated below:
 - 1. Faulty or loose connection between LED and Solar Controller,
 - 2. LED is faulty,
 - 3. Controller is faulty.

Please check the connection between the Controller and the LED. The light can be turned on normally 20 seconds after checks performed. Should the LED still not operate, the replacement of the solar controller and LED needs to be carried out. Please contact MOMA Solar for replacement parts.

• When the indicator is in mode 7, it may be a short circuit between the Solar Controller and LED which indicates that either the LED or solar controller is faulty. Please contact MOMA Solar for replacement parts.

One method to check is to disconnect the wiring between the Solar Controller and the LED, if the indicator light flashes as per mode 6 (table 1) after 20 seconds of disconnection, check with multi-meter whether the LED connector is short-circuited or not. If there is a short circuit on the connection between controller and LED then the LED is faulty. At this time, please replace entire LED board, LED can be turned on normally after 20 seconds. If there is no short-circuit, replace the Solar Controller.

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- When the indicator mode is mode 8, 9 or 10 (table 1) the check methods for these three modes are the same. Firstly, if there is a light source shining on the solar panel, please remove the nearby light source and wait for 2 minutes and check the indicator for mode type. If there is no nearby light source shining on the solar panel, please contact MOMA Solar for replacement Solar Controller.
- When the indicator mode is mode 11, it may be the battery, solar panel failure or controller failure.

Please use a multi-meter to detect the battery voltage, if the battery voltage is greater than 12V, please contact MOMA Solar for replacement parts. Reconnect the connection between battery and controller, observe whether the light can function normally. If LED light still does operate and the indicator shows the state of mode 11, please contact MOMA Solar for replacement parts.

If the voltage of the battery is less than 12V, please replace battery, and then observe whether the fault still exists or not. If the fault still exists use a multi-meter to measure the voltage from the solar panel whilst in the sun to determine whether if it is a solar panel failure. If there is no voltage from the solar panel this will require replacement, please contact MOMA Solar.

The above information are the most common failure analysis, it does not include all failures. If there are any other fault conditions, please contact MOMA Solar

Having Troubles?
Call Us 08 6141 3204



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8. Troubleshooting Guide



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	MOSLX-20W	MOSLX-30W	MOSLX-40W	MOSLX-60W	MOSLX-80W	MOSLX-100W
LED CCT	3000-6500К					
Monocrystalline Solar	28W	35W	40W	55W	72W	85W
Battery Voltage	Rated Voltage:12.8V					
Battery Cycle	2000+ Cycles					
Charge Time	6~8 hours					
Working time	15hrs/Day, Light + Time + Microwave Sensor Control					
Intelligent Controller	12V 10A MPPT Charge Controller with Microwave Sensor					
Inbuild Protection	Over Charge, Discharge, Heat and Over Load Protection					
IP Rating	IP65					
Material	Aluminium + Tempered Glass					
Working Temperature	-10°C to 60°C					
Warranty	3 Years					
Installation Height	3~6m	3~8m	4~8m	6~14m	8~14m	8~16m
Weight	6KG	7.5KG	8.5KG	10.5KG	15KG	18KG
Dimensions	710*310*90mm	840*310*90mm	970*310*90mm	970*400*90mm	1180*400*100mm	1450*400*100mm

LIFEPO4	vs	LIION
Over 2000 cycles	(3)	Over 500 cycles
Extremely low Explosion risk	\mathbb{O}^2	Very High Risk Explosion in High Temperature
-10 to 60 Degree	-``\	0 to 45 Degree
Up to 7 Years	+ 6 –	24 to 32 Months



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