

SOLARXTREME

Product Manual



SOLARXTREME 1000



SOLARXTREME 500



SOLARXTREME 250



PLEASE READ THESE INSTRUCTIONS FIRST BEFORE INSTALLATION

Congratulations on your purchase of the California LightWorks SolarXtreme 250, 500, or 1000 luminaire. We have done everything to insure a long life and safe operation, but the installation and use of the luminaire is the responsibility of the user. Incorrect use or installation can lead to failure and damage to the system. Damage to the luminaire and electronic circuitry as a result of incorrect installation and use revokes your warranty, so we recommend you read this manual carefully before installing your new grow light.

SolarXtreme Technical Support questions?

support@californialightworks.com

SolarXtreme Installation

SolarXtreme series LED lights are designed to run on either 100-120 volt or 220-240 volt circuits. 50-60 Hz is supported. It's critical for the integrity of the fixture that the voltage capacity on your unit matches your circuit. If you are not sure of the voltage on your circuit, please consult a professional electrician.

It's recommended to plug your SolarXtreme fixture into a timer (sold separately) for automatic on / off scheduling. General recommended hours of light and dark are 18/6 during vegetative period and 12/12 during flowering period. 18/6 can be used for autoflowering strains from start to finish.

To mount the light, simply secure the included hooks into the holes on each handle. Models SX-250 and SX-500 have two handles and model SX-1000 has 4 handles with a bracket on each side that contains holes for the hooks. You can then connect any adjustable ratchet hanger, chain, etc. onto the hooks. Hangers are sold separately.

The temperature of the fixture is in practice the most important parameter for lifetime and reliability. A normal operating environment temperature should be well below 104° Fahrenheit (40° Celsius). Exceeding the maximum environment temperature will stress the electronic components, which can lead to shorter lifetime and decreased reliability. SolarXtreme LED systems have a built-in overtemperature protection sensor. Should

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the heat sink exceed a temperature of 149° Fahrenheit (65° Celsius) the system will shut down until the system cools back down.

Do not operate the Luminaries close to combustible materials. The fixture does get hot to the touch during operation so please exercise caution when handling the system shortly after operation.

Hanging Heights

Before recommending hanging heights, it's important to understand what PPF is. PPF (photosynthetic photon flux density) which is measured in $\mu\text{mol}/\text{m}^2/\text{s}$ (micromoles per square meter per second) is the standard among horticultural lighting professionals when measuring PAR (photosynthetic active radiation), or the type of light that can be used by plants to convert light into energy. This process is called photosynthesis and it's the main purpose of grow lights.

In order to give plants the light they need, the right PPF levels must occur at the top surface of the canopy, or the top of the plant. General recommended PPF levels are 500 during the vegetative period and 800 during the flowering period. Below are distances inside a grow tent where these suggested PPF levels were achieved with each SolarXtreme series fixture.

	SX-250	SX-500	SX-1000
500 $\mu\text{mol}/\text{m}^2/\text{s}$ Distance (Veg)	18"	24"	38"
800 $\mu\text{mol}/\text{m}^2/\text{s}$ Distance (Flower)	12"	18"	28"

Product Description

SolarXtreme series light fixtures are fixed full spectrum horticultural LED luminaires. They are designed for ease of use by simply plugging them into a regular timer and hanging them above your plants.

Power On / Off

The SolarXtreme series LED grow light fixtures do not have an onboard power switch. When connected to an active power outlet or timer, the light will power on. To power off the light, you can either set the timer that the light is plugged into for your desired hours of light and dark, or you can simply unplug the power cord from the power source.

Maintenance

There are no serviceable parts inside the luminaire. Opening the luminaire will void the warranty. Keep the housing clean from dust and dirt with a dry or damp cloth to ensure optimal cooling. When using a damp cloth please disconnect the power first. We recommend you check your electrical connections regularly: check if the plugs are inserted completely and don't show any (contact) damage, check if the wiring is undamaged and that the wire ends connected to the reflector are tightly secured in their terminals. Occasionally, blowing compressed air through the fins of the heat sink and the top fans is recommended to help clear any dust that may accumulate.

Troubleshooting

Your California LightWorks SolarXtreme series fixture is factory sealed. There are no serviceable parts inside the luminaire and opening it will void the warranty.

Product Specifications

	SX-250	SX-500	SX-1000
Power Draw	200w	400w	800w
Max Current	1.6A	3.3A	6.6A
Coverage Area	3' x 3'	4' x 4'	5' x 5'
Heat Output	640 BTU	1280 BTU	2550 BTU
Dimensions	8.5" x 8.5" x 4"	18" x 8.5" x 4"	18" x 18" x 4"

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Weight	6 lbs	11 lbs	22 lbs
Thermal Management	Active		

Three Year Limited Warranty

MWW Inc, d.b.a. CALIFORNIA LIGHTWORKS warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of three (3) years from the original date of purchase. Warranty coverage applies to the original owner and to the original product only and is not transferable. If the product shows any defects within this period and that defect is not due to user error or improper use, CALIFORNIA LIGHTWORKS shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. In case CALIFORNIA LIGHTWORKS decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e. three (3) years from the date of purchase of the original product.

Only MWW Inc. d.b.a. CALIFORNIA LIGHTWORKS can service the SolarXtreme series luminaires. For all repairs, please send the unit with original receipt to:

Email: support@californialightworks.com

MWW Inc. d.b.a. California LightWorks
7949 Deering Ave
Canoga Park, CA 91304 (USA)