

COMMERCIAL LIGHTING DEVICES

LED LIGHTING

USER MANUAL

CERES BLACK



SAFETY PRECAUTIONS

CERES BLACK

- Please read this manual thoroughly before attempting to install or operate any Ceres LED system.
- After successful installation and configuration of the system, be sure to retain this manual in a safe place for future reference. Safety is a key component to a long lasting and trouble free installation.
- It is important you read, fully understand, and observe the subsequent safety precautions. If you are not comfortable with the installation of horticulture LED systems, you should seek the services of a qualified installation professional or call us for help.
- CERES LED are high performance lighting systems. Do not touch while in operation.
- Connect the system only to power sources of the correct voltage (as shown on product label). Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the unit. Only connect the system to an electrical outlet or extension cord of appropriate type and rating.
- DO NOT defeat the safety purpose of a grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has two blades-one wider than the other. A grounding plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.
- The system should only be cleaned as directed in the manual. You should seek service for your system by qualified service personnel if any of the following occur:
 1. The power supply cord or the plug has been damaged.
 2. The unit has been exposed to rain.
 3. The unit exhibits a marked change in performance.
 4. The unit has been dropped, or its enclosure or chassis is damaged.

SYSTEM HARDWARE

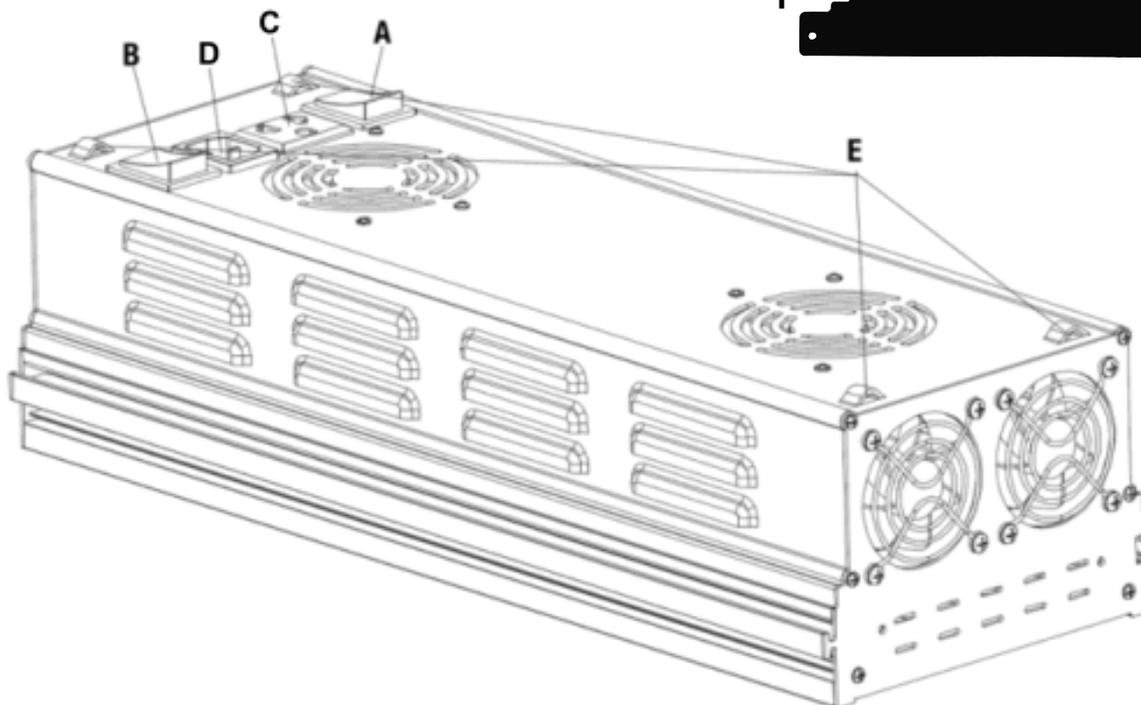
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System Hardware

- a. Vegetative stage power button
- b. Flowering stage power button
- c. Power output (for power daisy chaining)
- d. Power input
- e. Hanging bracket

Accessories

- f. Grip wire hanger
- g. 110V horticulture power cable
- h. 240V horticulture power cable
- i. 6 inch pair connection bracket



ASSEMBLY

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CERES BLACK LED system can function individually or as a pair. It's recommended to use a pair per 4'x8' canopy space at 1.5 feet high. CERES encourages everyone to experiment and pursue their own techniques. Every crop is different and everyone has different goals. However, our internal research has given us insight for the best setup recommendations for common crop.

To hang the single light individually

- a. Take CERES LED system out of the box.
- b. Hook the included rope into four brackets located on four corners on top of the light.
- c. Hang it 1.5 feet above the canopy.
- d. Hang second system 6 inches next to the first one side by side.

To hang the double module

- a. Take Two (2) CERES LED systems out of the boxes.
- b. Unscrew the indicated screws half way, apply the connector pieces, screw down the screws.
- c. Hook the included ropes into four brackets located on four corners on top of the pair.
- d. Hang it 1.5 feet above the canopy.
- e. 6 inch pair connection bracket available for purchase.

To Use the System

1. Turn on Vegetative and Flowering button respectively according to the plant cycle.
2. We don't recommend turning on both stage at the same time. It does not increase yield and waste energy.
3. A pair of lights replaces a DE-1000W HPS. One will replace a 400W HPS.
4. Amperage Consumption

Voltage	Amperage (One Channel on)	Amperage (Both Channels on)
110V	1.36A	2.72A
240V	0.63A	1.25A

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