

PLEASE READ

INSTRUCTIONS BEFORE INSTALLATION

Congratulations on your purchase of the industry's highest quality digital lighting products. OCL digital ballasts are tuned and optimized for the lowest OUTPUT total harmonic distortion (THD) and matched to OCL Digital Lamps for maximum output and spectral balance. Incorrect use or installation may lead to product damage or failure. Any damage caused by incorrect use or installation voids manufacturer's warranty. Please carefully read this manual before installing your digital ballast.

UNIQUE TECHNOLOGY

- **Power Control™:** OCL's Power Control is a software based technology that allows one-at-a-time sequential lamp ignition. No matter how many OCL ballasts you are running, your lights will ignite one-at-a-time. By utilizing a staggered ignition, OCL ballasts prevent huge current draws/spikes in your electrical system, and is a more efficient means of lighting your garden.
- **StartSmart™ Technology:** When the ballast is powered on, OCL ballasts will send a mV signal through the closed circuit (between ballast and lamp), to determine a variety of different factors such as: lamp type, open/short circuits, high/low temps and thermal issues, ignition failure, over flow current, and end of lamp life.
- **World's Lowest HID OUTPUT THD%:** With an input Total Harmonic Distortion (THD) value of <10% and an output THD% of <12%, OCL digital ballasts provide the cleanest signal for HID lamps. This provides maximum output, spectral perfection, and longevity of your equipment.

INSTALLATION

OCL digital ballasts can be positioned universally. The unique design of the heat sink dissipates heat away from the critical components in the ballast. If ballasts are mounted vertically to a wall, it is preferred to mount lamp output side **TOP** and mains **BOTTOM**. OCL digital ballasts are designed for use indoors and are sealed for damage against humidity and dust.

Avoid installing your ballasts in a high heat area, such as an attic or closed area or rooms that reach temperatures over 100°F. Do not stack ballasts on top of another. When placing ballasts, make sure to keep a distance of at least approx. 6" in between individual ballasts. Do not install in a wet area or areas prone for water. OCL digital ballasts, depending on model, are compatible both on 120V and 240V power and are also generator ready. When installing your ballasts, we recommend to utilize up to 80% maximum load of your breaker capacity for electrical safety.

CONTACT A LOCAL ELECTRICIAN IF YOU HAVE ANY DOUBTS.

LAMP CONNECTIONS

- Never turn on the ballast without the lamp cord and lamp installed.
- Never disconnect the lamp from a live ballast.
- **Hotrestrike:** it is very important to allow your lamp to cool before attempting to reignite. It is recommended to allow 20-30 minutes before restarting to avoid damage to the lamp.
- Ensure a snug fit when installing lamps
- Make sure the mogul socket shows no signs of damage or corrosion.
- Confirm that power has been disconnected from the ballast before attempting to change lamps.

COMPATIBLE LAMPS

OCL digital ballasts operate both Metal Halide (MH) and High Pressure Sodium (HPS) lamps. While OCL digital ballasts are compatible with a majority of brand name lamps, OCL digital lamps are recommended. Our technical engineer's tune and match our light systems together for optimal output and spectral balance. Using a matched OCL system has significant benefits over unmatched systems in terms of light quality and longevity.



- Please make sure the proper wattage lamp is installed before adjusting ballast to full power or boost mode.
- OCL digital ballasts have softstart integration, ballasts ease up to full draw.
- OCL ballasts utilize softdimming, power will ease up to full draw. It may take a few minutes for the ballast to dim from each setting. Visible dimming may not be noticeable to the human eye.

PREVENTING EMI

All high frequency ballasts, to a degree, will cause electromagnetic interference (EMI). Incorrect installations may cause unnecessary EMI. If possible, install ballasts as far away from major communication sources. Do not coil your excess lamp cords or wiring. Shorten lamp cords and wires to the required lengths. Keep mains leads (power cords) and lamp leads separate. Maintain integrity of electrical system EMI maybe more prevalent in areas with older grid systems.

MAINTENANCE

OCL digital ballasts are not selfserviceable. If you experience a need for assistance, please call our information line. Disassembling the ballast will void the warranty. The internal componentry of the ballast is sealed with a resin to protect electronics. The aluminum exterior of the ballast can be cleaned with a damp cloth, however make sure the ballast is disconnected before cleaning. It is recommended to check all connections regularly to make sure that no cables have become loose or show signs of damage. Also check to confirm all wire ends are fitted firmly into the reflector/ballast.

TROUBLESHOOTING

In case the HID lamp will not start, you can try the possible fixes below:

Possible Causes:

- Lamp is loose in socket
- Incorrect voltage
- Defective or poor wiring
- Poor electrical connections
- Incorrect or damaged lamp

Possible fixes or corrective maintenance:

- Make sure lamp is screwed firmly into socket, but do not over tighten. Ensure the tab inside the mogul socket makes proper contact with the lamp base.
- Make sure you are using the correct voltage input.
- Examine wiring to confirm proper connections.
- Verify that you are using the proper voltage lamp, use OCL digital lamps for best results
- Check to make sure there is no lamp damage, sometimes lamps are installed too firmly, look for broken connections.

WARRANTY

OCL warrants that our digital ballasts are free from manufacturer defects in electronics and mechanical craftsmanship when used under normal operating conditions for 3 years from manufacture date. If the product shows signs of defect within this period and is not a fault of user error, OCL shall, at its discretion, either replace or repair the product. In case, a replacement is required, a limited warranty will apply to the replacement product for the remaining initial warranty period. For warranty service, please return the ballast to your retail store with original sales receipt.