



Operating Instructions

HPS/MH1000W/600W/400W/250W

Big things DO come in small packages!!! The revolutionary new Nanolux Ballast is about to change everything you expect from the driving source of any indoor garden, YOUR LIGHTING!!! **This ballast is the smallest, lightest, and most stable ballast on the market today.**

In addition to the popular Dimming function, which allows you to operate your ballasts at 100%, 75%, and 50% power, we've also incorporated our new Random Start and our unique **Safety-Check System**.

Random Start, gives each ballast a 0-15 second window upon which it will strike the bulb. This allows for a less intense initial power draw when using multiple ballasts for larger gardens.

Specifications:

- 1) Input voltage range: 100-265Vac (North American Market), 165-265Vac (European Market)
- 2) Power Factor: >0.99
- 3) Crest Factor: <1.7
- 4) Total Harmonic Distortion (THD): <10%
- 5) Operating Temperature: -30°C (-22°F) – 50°C (122°F)
- 6) Output Frequency: ≥ 30KHz
- 7) Strikes both HPS and MH lamps
- 8) Strikes bulbs from up to 50ft

Operating Instructions:

- 1) Install your new Nanolux Ballast away from any potential heat or moisture sources. Although these units are made to withstand extreme gardening conditions, keeping the unit as cool and dry as possible will extend its life and not promote early failure.
- 2) Connect the output lead and socket to the lamp lead. (Ensure bulb is inserted properly)
- 3) Plug the power connection (cord is provided) into power supply socket.
- 4) Select your Dimming Selection: 100%, 75%, 50%

Nanolux Ballast has been intergraded with our new **Safety-Check System**. Use of the LED Status Indicator allows a user to diagnose any problems that may arise. This allows quick and easy diagnosis to get your lighting operating again as quickly as possible or to avoid any potential issues due to equipment failure. As always, our 3 year warranty will guarantee quick repairs or equipment swaps should you ever have a problem with your new unit.

NANOLUX Electronic Ballast Operating Instructions

LED Status Indicator:

Green: Operating in normal manner.

- 1) Blink in .5 second: Fan failure or obstruction.
- 2) Blink in 1 second: Under (80Vac) or over voltage (290Vac) protection. Check your main power supply should this occur.
- 3) Blink in 2 seconds: Short or open circuit protection. Your ballast will attempt to restart after 50 seconds, and is programmed to automatically shutdown after 20 strike attempts for safety.
- 4) Blink in 3 Seconds: High Temperature safety shut down. Ballast will automatically restart when the internal temperatures are under 55°C (131°F).
- 5) If you have any questions or concerns about installing your new ballast, please contact the place of purchase or a certified electrician.

Care and maintenance of your Nanolux Ballast is simple. Wipe the unit down with a clean, dry cloth periodically and keep the fans free from debris.

Warranty

Nanolux warrants this ballast to be free from defects in material and workmanship. Equipment faults caused by misuse, abuse, or failure to follow instructions are not covered by warranty. For warranty service, please return the ballast with the original sales receipt and packaging to your place of purchase.

Electronic Ballast Operating Instructions Failure to observe the following warnings may result in serious injury. Warranties will be void if the following steps are not followed.

- 1) Use only HPS or MH bulbs. Do not use lamps referred to as 'retro' or 'conversion' lamps. Make sure the bulb matches the wattage of the highest output of the ballast.
- 2) Never unplug the power plug or detach lamp cord from socket without turning off the power supply first.
- 3) Make sure the power supply and lamp cable are connected properly and grounded.
- 4) Do not hang the ballast by the power or lamp cord.
- 5) Mount each unit at least 150mm (6inches) apart.
- 6) Do not attempt to open or modify the Nanolux Ballast, high power electrical devices can cause severe injury or death.
- 7) Ensure the unit does not come into contact with water.
- 8) Keep out of reach of children.
- 9) Wipe the unit down with a clean, dry cloth should it become dirty.

Thank you for your support the Nanolux Electronic Ballast. We believe this to be best garden lighting available and we are proud to continue serving you!

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