

IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

DISCONNECT AC POWER SUPPLY BEFORE SERVICING.

- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations if applicable.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.

SAVE THESE INSTRUCTIONS!

The Growlite 1000W Electronic Ballast is highly efficient and energy-saving with a high power factor, high luminous efficacy, as well as lower THD. The Growlite 1000W ballast will light both Metal Halide (MH) & High Pressure Sodium (HPS) lamps as well, operate 120/208/240/277V (90-305V). It is equipped with short circuit and open circuit protection, ignition failure protection, and end of lamp life protection technology. It's high operating frequency sine wave (>60 kHz) provides constant power output to the lamp, prolongs lamp life, and increases light efficiency.

It is strongly recommended you read all details below

1. Pre-Use Procedures

- a. The 1000W Electronic Ballast (120V/277V) is able to work within the range of 90V to 305V. Please confirm the input power before use.
- b. Operating temperature range: -22°F ~ +122°F (-30°C ~ +50°C), Max case temperature (TC): 194°F (90°C).
- c. Ensure the lamp power and lamp voltage match the specifications of 1000W electronic ballast.
For maximum performance, the lamp voltage of 400W and 600W should have a rated operating range of 90V to 145V. Lamp voltage of 1000W MH/HPS should have a rated operating range of 210V to 280V for North American model lamps. Different electronic ballast's are required to run European style 1000W HPS/ MH lamps with lamp voltage between 90V to 140V.
- d. Never unplug the power plug or detach the lamp cord from the lamp socket without turning the power supply off first.
- e. Mounting Location:
 - i. Do not install ballasts in areas of extremely high temperature such as an attic or a closed closet.
 - ii. Do not mount the ballast to the reflector or blow exhaust air over the ballast.
 - iii. Do not stack ballasts on top of each other.
 - iv. Do not allow contact with water.
 - v. Mount unit at least 6" (15cm) apart.
- f. If a unit ever leaks resin, please turn off power supply, and allow it to cool down, relocate to cooler area or install a fan near the ballast for cooling.

2. Operating Procedures

- a. Connect output wires to lamp socket or as instructed by the lamp fixture's manufacturer.
- b. Ensure bulb is installed into fixture properly.
- c. Plug the power connection into the power supply socket.

3. Instructions for LED Power System Indicator

- a. The LED power indicator is on and no blink: Normal operation state.
- b. Blink Once: Fan failure or obstruction. Please check for broken fan or object(s) obstructing fan operation.
- c. Blink Twice: Under (90VAC) or over voltage (290VAC) protection. Please check your power supply's stability.
- d. Blink Three times: Short or open circuit protection. Your ballast will attempt to restart after 100 seconds, and it will automatically shutdown after 20 minutes if the problem continues to occur.
- e. Blink Four times: High temperature safety shut down. Your ballast will automatically restart when the internal temperature is under 55°C (131°F).

4. Specifications

- a. Switchable Methods: Manual knob.
- b. Switchable Settings: 400W-600W-1000W-DE Double Ended.
- c. Input Voltage: 90~305V (8.6A@120V - 4.1A@240V - 3.8A@277V)
- d. Strike Voltage: $\geq 3.5\text{kV}$
- e. Built in fan cooling, quiet operation.
- f. Size: L15.20"x W4.41"x H2.76".

5. Notes

- a. Switching power supply voltage. If you use a voltage regulator or transformer, please switch power supply slowly. If you want to change 120V to 240V or 277V quickly, please unplug 120V cord, and then plug into 240V or 277V power receptacle
- b. If you fail to comply, the Digital Electronic Ballast could fail and warranty will be voided

6. Safety

- a. Do not alter or modify the Digital Electronic Ballast in any way. It may cause bodily injury or death as this is a high power electrical device.
- b. Do not submerge in water or splash water on the unit.
- d. Do not plug or unplug the lamp cord while the Digital Electronic Ballast is plugged into power supply.
- e. Failure to observe the following safety warnings may result in serious injury or death.
- f. Failure to observe these safety warnings will result in a waiver of all liabilities and will void all warranty.
- g. The use of output splitters for the purpose of running two lamps on a single ballast is NOT recommended and will void the manufacturer warranty.

7. Warnings

- a. Do not connect input and output together; the lighting fixture should be grounded correctly through the power connection; Improper wiring of output connection will permanently damage the ballast.
- b. If the exterior of the lamp is damaged, don't attempt to use, replace lamp immediately.
- c. When re-installing lamp, make sure lamp has time to cool before touching.
- d. Make sure power supply and lamp cable are connected properly.
- e. Always disconnect power supply before reinstalling the lamp.
- f. Do not hang or lift the ballast by the power or the lamp cord.
- g. Do not touch the interior of the socket while power is on.
- h. Do not operate electronic ballast in extremely high humidity or damp locations.
- i. Do not plug electronic ballast into wrong power supply.
- j. Do not attempt to open the casing/housing of the Digital Electronic Ballast, it will void your warranty.
- k. Do not put the Electronic Ballast in an airtight environment.
- l. Keep away from children.