GLB-1000-DE-240/277

Installation Instructions

IMPORTANT SAFEGUARDS
READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

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

- Failure to observe the following safety warnings may result in serious injury or death.
- Failure to observe these safety warnings will result in a waiver of all liabilities and will void all warranty.
- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure the electrical connections conform to the National Electrical Code and local regulations, if applicable.
- Do not mount near gas or electrical 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.
- Do not submerse in water or splash water on the unit.
- Do not plug or unplug the lamp cord while the Electronic Ballast is plugged into power supply.
- Do not connect input and output together; the ballast should be earthed correctly through the power connection; Improper wiring of output connection will permanently damage the ballast.
- If the exterior of the lamp is damaged, do not attempt to use. Replace lamp immediately.
- When re-installing lamp, make sure lamp has time to cool before touching.
- Make sure power supply and lamp cable are connected properly.
- Always disconnect power supply before re-installing the lamp.
- Do not hang by the power cord or the lamp cord.
- Do not touch the interior of the socket while power is on.
- Do not operate the Electronic Ballast in high humidity or damp locations.
- Do not plug the Electronic Ballast into an unknown power supply.
- Do not attempt to open the casing/housing of the Electronic Ballast. It will void your warranty.
- Do not put the Electronic Ballast in an airtight environment.
- Keep away from children.

SAVE THESE INSTRUCTIONS!

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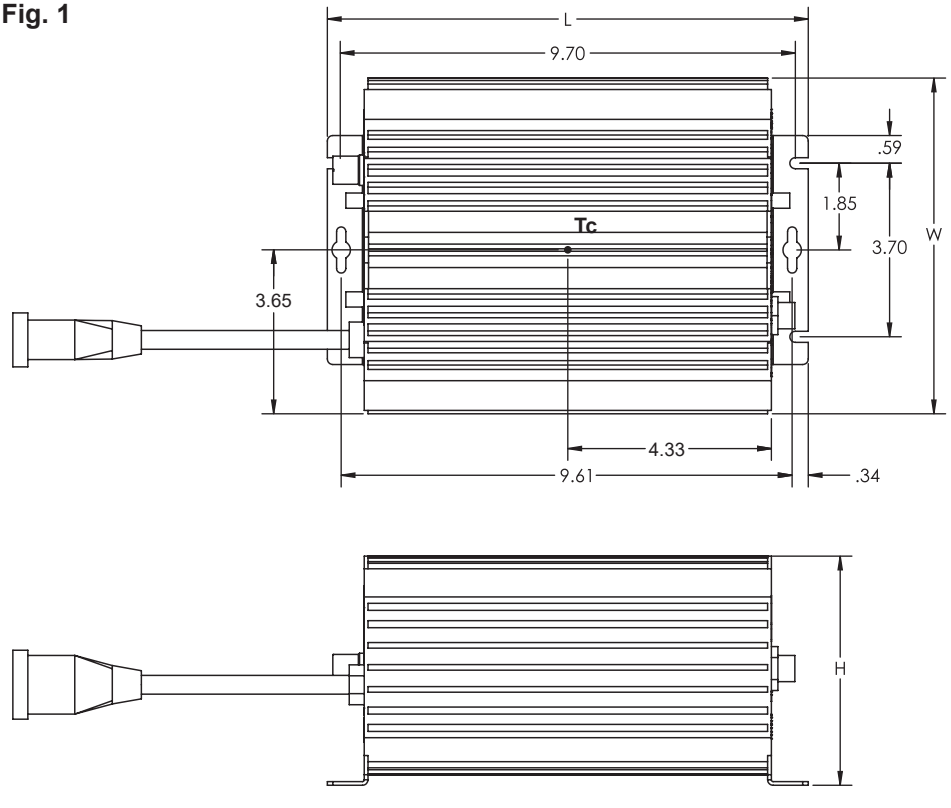
The 1000W Commercial DE Digital Ballast is highly efficient and energy-saving. It has a high power factor and a high luminous efficacy for double-ended lamp. It is equipped with an open/short circuit protection, ignition failure protection, thermal protection and under voltage or over voltage protection technology. Its high operating frequency (100 kHz) provides constant power output to the lamp, prolongs the lamp's usage life, and increases light efficiency.

It is strongly recommended to carefully read all details below before initial use:

- The ballast can operate using a 240VAC or 277VAC power supply.
- Input Voltage Range: 208-277VAC
- Input Frequency: 50/60Hz
- Dimming Steps: 600W-750W-825W-1000W-1150W-EXT
  Note: When the dimming knob is set to EXT, the ballast will not operate without applying a 0-10Vdc external control signal to the dimming port (see Table 1 for dimming voltage reference).
- Dimming Methods: manual knob & remote control
- Operating temperature range: -20°C ~ +40°C, max case temperature (Tc): 70°C.
- Use 1000W HPS/MH lamps ONLY.
- Never unplug the power plug or detach the lamp cord from the lamp socket without turning the power supply off first.
- Mounting Location – Do not install ballasts in areas of very high temperature, such as an attic or a closed closet. Do not stack ballast on top of each other. Install the ballast away from water, fire, any potential heat, dusty or dirty places, or wet conditions.
- This unit offers short circuit and open circuit protections.
- If you fail to comply, the ballast could fail, and warranty will be voided.

Fig. 1



DIMENSIONS: L 10.25" X W 7.3" X H 4.88"

Installation and Electrical Connections

1. Install your lamp into your reflector according to the accompanying instructions, making sure that the output wires/plugs between the reflector and the ballast connect well.

2. Secure the ballast to the desired mounting location using the (4) rubber feet and the (2) sets of screws, washers, and nuts provided.

2. Connect the supplied power cord to the AC input power receptacle on the ballast by aligning the notch and pressing firmly until a click is heard or felt, indicating that the lock has engaged. A soft tug on the connector will verify full engagement. To disconnect, turn the blue locking ring counterclockwise and pull. (Fig. 2)

3. Connect your fixture to the ballast, ensuring the plugs between the fixture and the ballast mate completely.

4. If using the dimming extension between ballasts, make connections with the dimming connectors.

5. Plug into a suitably rated AC receptacle. Use the NEMA 6-15S plug for 240VAC and the L7-15S plug for 277VAC. **Caution:** Do not apply power before verifying all connections are complete and a lamp is installed in the lamp holder.

6. Select the desired dimming setting using the dimming knob. Dimming selection can be made before or during lamp operation. Refer to Table 1 for dimming voltage reference.

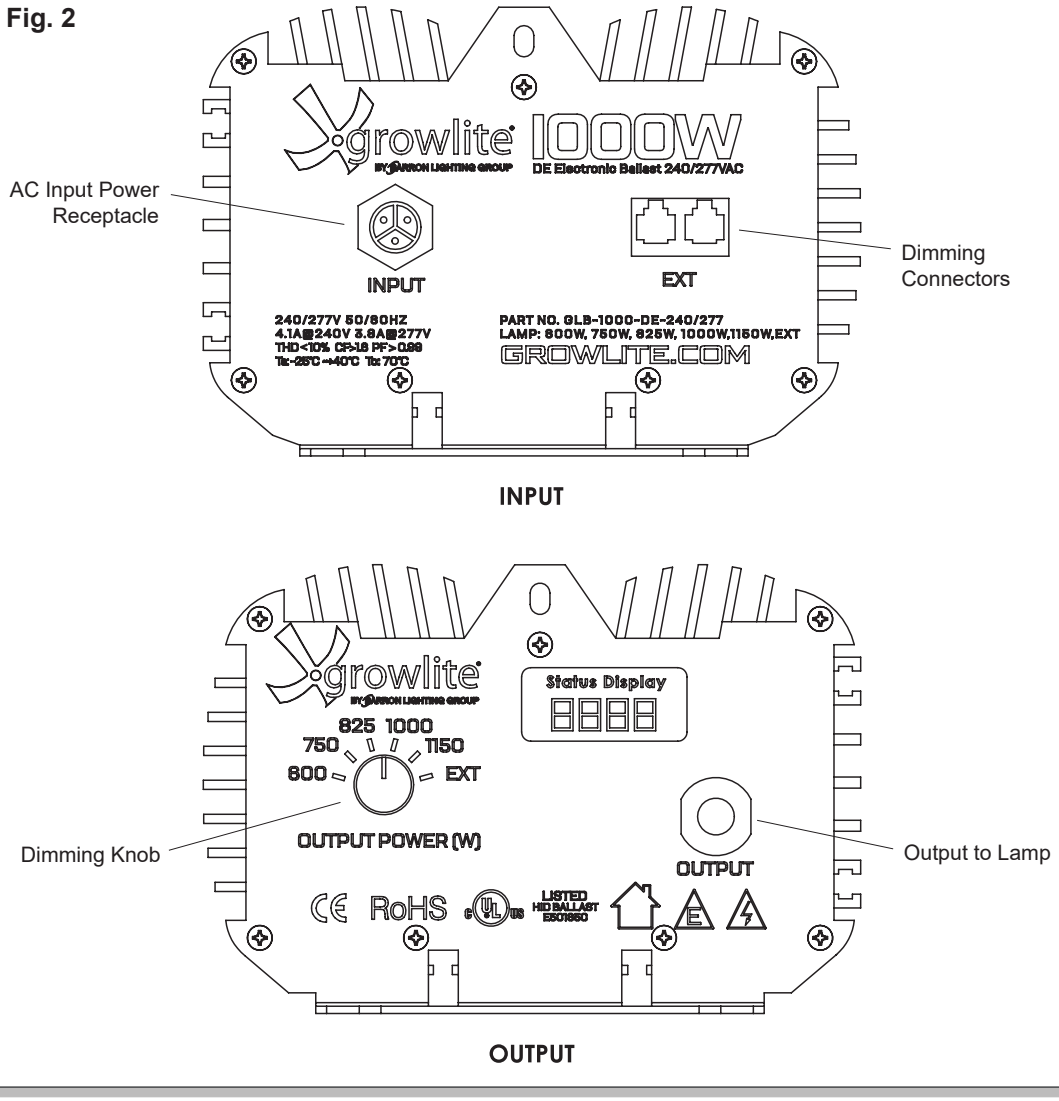
Table 1 - Dimming Range

Voltage (VDC)	Wattage (W)	Dimming %
9.5V	1150W	115%
8.5V	1000W	100%
7.5V	900W	90%
6.5V	825W	83%
5.25V	750W	75%
3.33V	600W	60%
<3.33V	Standby	Standby

*RJ11 port take a DC supply from 0-10V to control the dimming

Installation and Electrical Connections, Continued

Fig. 2



Fault Codes

The ballast is equipped with a small display to convey information about ballast status. During normal operation, this display will alternately display AC line voltage and power setting of the ballast, in Watts. When a fault condition occurs, it will display a code to aid in troubleshooting the fault.

The following table is provided to assist with troubleshooting the fault:

Table 2 - Fault Codes

Code	Long Form	Description of Fault	Possible Cause
OCP	Open Circuit Protection	Ballast sensing no current or loss of continuity between ballast and lamp	1. Lamp cord unplugged or damaged 2. Lamp not installed or improperly installed 3. Lamp failure
SCP	Short Circuit Protection	Ballast sensing excessive current to the lamp	1. Lamp cord damaged 2. Lamp not installed or improperly installed 3. Lamp failure
LVP	Low Voltage Protection	Incoming AC line voltage below the required level to run the ballast	1. Excessive cable length 2. Overloaded branch circuit 3. Wire gauge too small
HVP	High Voltage Protection	Incoming AC line voltage exceeds the safe level to run the ballast	1. Connected to wrong branch circuit 2. Spike or surge transient 3. Lightning strikes on power lines
OFF	When using an external dimming controller connected to the dimming port, if the dimming voltage falls below the ~5.5Vdc threshold, the ballast will switch off power to the lamp and enter stand-by mode.		