

LightWave Digital Ballast – Specifications

	250W	400W	600W	1000W
	Electronic ballast for 250W HPS/MH lamp	Electronic ballast for 400W HPS/MH lamp	Electronic ballast for 600W HPS/MH lamp	Electronic ballast for 1000W HPS/MH lamp
Voltage	230/240V 50/60Hz	230/240V 50/60Hz	230/240V 50/60Hz	230/240V 50/60Hz
Current	1.16A	1.85A	2.75A	4.42A
Rated power	265W	420W	635W	1040W
PH Power factor	>0.99	>0.99	>0.99	>0.99
Working Voltage	175 to 265V	175 to 265V	175 to 265V	175 to 265V
THD	<8%	<8%	<8%	<8%
Operating frequency	high frequency	high frequency	high frequency	high frequency
Working temperature	-10°C to 45°C	-10°C to 45°C	-10°C to 45°C	-10°C to 45°C
Enclosure temp. rise (Δt)	28°C	28°C	28°C	28°C

LightWave Digital Ballast Three Year Limited Warranty

The manufacturer provides to the original purchaser of the LightWave unit a warranty in respect of the components of the LightWave unit. This warranty shall extend for a period of 36 months from the original date of purchase of the unit.

If the manufacturer shall determine, at its sole discretion, that any components are defective in material or in workmanship, then the manufacturer will, at its sole discretion, repair or replace the faulty components at an authorised centre of repair.

The Warranty will only be considered valid if the following conditions are met:

1. The retailer or manufacturer is provided, by the original purchaser, with a proof of purchase, such as a receipt, for the sale made to the original purchaser.
2. The components have not been replaced, altered, repaired or tampered with by unauthorised persons. Attempted repairs or alterations will render this Warranty void.
3. The unit has not been damaged by abusive or inappropriate usage, inadequate maintenance or supplemental damage.

The manufacturer shall not be responsible for any damage caused by operation of the unit, be it incidental or consequential; or of any type; including, without limitation, damage or injury, caused to other products, machinery, or buildings. Nor will responsibility be accepted for loss of time or profit, loss of finished product, or for any inconvenience caused in any way whatsoever.

To obtain Warranty Service please return product to the place of purchase according to the retailer's policy on returns issues.



Growth Technology
www.growthtechnology.com

LightWave DIGITAL BALLAST



Instructions for use

Please read safety instructions
before using this unit



Model illustrated: 600W

*Congratulations on purchasing a **LightWave Digital** horticultural lighting ballast. This is a well designed product and should give years of trouble free operation. This ballast has a full **THREE YEAR** guarantee. In the unlikely event of a fault developing please return to the retailer with proof of purchase for repair or replacement.*

LightWave

Bright – Cool – Silent

LightWave is the pinnacle of ballast technology.

It produces more light, less heat and no sound.

LightWave is fully shielded and will not cause any interference to TV or radio.



Features

- **LightWave** ballast is suitable for use with EITHER High Pressure Sodium OR Metal Halide lamps. Make sure that the wattage of the lamp matches the wattage of the Ballast.
- **LightWave is considerably cooler** in operation than the old ballasts making it far easier to maintain cool growing conditions for most of the year.
- **LightWave is fully shielded** and will not interfere with radio or TV.
- **LightWave is far more efficient** than magnetic ballasts. Output, measured in lumens of light produced per watt of electricity, is considerably greater and the high frequency output reduces power loss and improves overall power management.
- **LightWave** features **Instant Start technology** – taking less than a minute to achieve full radiance from the lamp.
- **LightWave is silent in operation.** Say goodbye to all that humming.

Always use good quality lamps with your LightWave ballasts – preferably from the major manufacturers. Cheap inferior lamps may fail to ignite and should be avoided.

Allow lamps to cool down after use. Do not attempt to restrike a hot lamp for at least 20 minutes. This careful usage will greatly extend useful lamp life.

LightWave Digital Ballast in Use

1. Hang reflector in the chosen location. Find a suitable place for the ballast. The unit must not be mounted on a flammable surface but preferably placed on a shelf or wall mounted. It should NOT be placed on the floor where it can be affected by water.
2. Make sure that lamp wattage matches ballast wattage. Screw lamp into reflector. Make sure lamp is tightly screwed in. Wipe lamp with a soft cloth after handling it.
3. Plug reflector into ballast. Make sure that the IEC plug is firmly located in the female socket. Plug ballast into mains outlet. Switch on at mains.

If the light does not come on after a minute or two, switch off. UNPLUG from mains then check all connections. Check that lamp is screwed in tightly. Plug in and try again. If it still fails to ignite it should be returned to retailer for immediate replacement.

WARNING – Mains Voltage Can Kill.

Earth Leakage Circuit Breakers should ALWAYS be used in any growing area.

If you are in any doubt about wiring or any electrical matter, please call in a qualified electrician.



Safety advice:

When using any electrical appliance there are basic safety precautions that should be taken.

- Read all Instructions carefully.
- NEVER immerse this product, or the lead and plug, in water or any other liquid.
- Keep away from children or pets..
- Unplug from outlet when not in use or before cleaning.
- NEVER operate the unit with a damaged lead or plug. If the unit is damaged in any way then return to an authorised service facility – or a licensed electrician – for examination and repair.
- NEVER use this ballast outdoors.
- Do not allow the power cord to hang over the edge of a counter or table and never allow it to come into contact with a hot surface.
- Never plug this unit in unless it is already connected to a lighting fixture – complete with lamp.
- Switch off power and unplug the unit before handing the reflector or changing a lamp.
- Make sure that hands are completely dry before doing anything to this unit – always keep the ballast well away from water.
- Never tamper with the unit as there are no user serviceable parts inside and this will void that guarantee.
- Always allow adequate space around the ballast – do not place them close together nor stack them upon each other. Allow plenty of airflow over the units.
- Lamps are incredibly hot whilst in use. Never touch an illuminated lamp and allow plenty of time for them to cool down before touching.

SAVE THESE INSTRUCTIONS

**Accept nothing less than total safety.
Life is short enough already.**

Troubleshooting the LightWave Digital Ballast

If the unit fails to operate – LAMP NOT STRIKING – please follow this procedure.

1. Turn off unit at the mains and remove the plug from wall socket.
2. Check that wall socket is working by plugging in a known working device.
3. If the supply is okay then remove and exchange the fuse in the plug with a known good fuse. Fuse should be rated at 13 amps.
4. Unplug unit again and replace lamp with a new one – preferably from a different manufacturer. Tighten lamp firmly and switch on ballast.

If the unit still fails to operate it will need to be returned to your retailer for a replacement.