



HPS/MH Electronic Ballasts

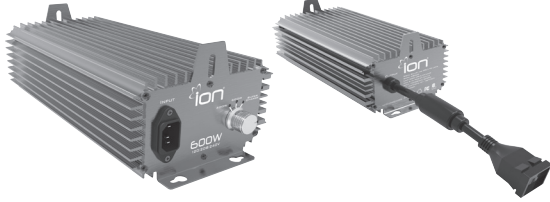
READ AND SAVE THESE INSTRUCTIONS



600W 120/208/240V

11.97" x 5.93" x 4.37"

LAMP COMPATIBILITY: 600W HPS/MH



OPERATIONAL VOLTAGE	110	120/240	265
HERTZ	50/60		

MAX. INPUT POWER	
SUPER CHARGE	721W
600W	657W
400W	445W

OUTPUT POWER SETTINGS	400/600/660W
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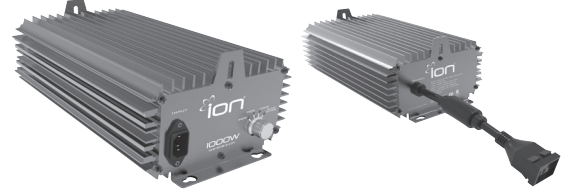
INPUT AMPS	MIN.	MAX.
120V	5.7	6.1
208V	3.2	3.5
240V	2.8	3.1

POWER FACTOR	≥ 0.97
CREST FACTOR	≤ 1.6
TOTAL HARMONIC DISTORTION	≤ 10%

1000W 120/208/240V

13.14" x 7.4" x 4.8"

LAMP COMPATIBILITY: 1000W HPS/MH



OPERATIONAL VOLTAGE	110	120/240	265
HERTZ	50/60		

MAX. INPUT POWER	
SUPER CHARGE	1195W
1000W	1095W
600W	830W
400W	671W

OUTPUT POWER SETTINGS	600/750/1000/1100W
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INPUT AMPS	MIN.	MAX.
120V	9.4	10.1
208V	5.4	5.8
240V	4.7	5.1

POWER FACTOR	≥ 0.97
CREST FACTOR	≤ 1.6
TOTAL HARMONIC DISTORTION	≤ 10%

⚠ WARNING

TO PREVENT SERIOUS PERSONAL INJURY AND DAMAGE TO EQUIPMENT OR PROPERTY,

- ALWAYS HANDLE THE BALLAST WITH CARE.
- INSTALL THE UNIT IN A COOL, DRY, WELL-VENTILATED LOCATION.
- DO NOT HANG THE UNIT BY THE LAMP CORD OR POWER CORD.
- ENSURE THE POWER SOURCE MEETS THE SPECIFICATIONS OF THE UNIT. THE POWER CORD USED SHOULD ALWAYS MATCH THE VOLTAGE SUPPLIED TO THE UNIT.
- DO NOT OPERATE IF THE POWER CORD OR PLUG BECOMES DAMAGED.
- DO NOT OPERATE THE UNIT WITHOUT PROPER ELECTRICAL GROUND.
- IF USING A TIMING DEVICE, ONLY USE ONE THAT IS FULLY GROUNDED.
- DO NOT TOUCH THE LAMP CORD RECEPTACLE WHILE THE UNIT IS PLUGGED IN.
- DISCONNECT THE UNIT FROM THE POWER SOURCE BEFORE MOVING THE UNIT, CONNECTING OR DISCONNECTING THE LAMP CORD, OR REPLACING THE LAMP.
- DO NOT ATTEMPT TO MODIFY THE UNIT. DOING SO WILL VOID THE WARRANTY.
- DO NOT EXPOSE THE BALLAST TO WATER.
- OPERATE THE UNIT INDOORS ONLY.

⚠ ATTENTION

POUR ÉVITER DES BLESSURES GRAVES ET DES DOMMAGES À L'ÉQUIPEMENT OU DES BIENS,

- TOUJOURS MANIPULER LE BALLAST AVEC SOIN.
- INSTALLEZ L'APPAREIL DANS UN ENDROIT FRAIS, SEC ET BIEN VENTILÉ.
- NE PAS ACCROCHER L'APPAREIL PAR LE CORDON DE LA LAMPE OU LE CORDON.
- VEILLER À LA SOURCE D'ALIMENTATION CONFORME AUX SPÉCIFICATIONS DE L'APPAREIL. LE CORDON D'ALIMENTATION UTILISÉ DOIT TOUJOURS CORRESPONDRE À LA TENSION FOURNIE À L'UNITÉ.
- NE PAS UTILISER SI LE CORDON D'ALIMENTATION OU LA PRISE EST ENDOMMAGÉE.
- NE PAS FAIRE FONCTIONNER L'APPAREIL SANS MASSE ÉLECTRIQUE APPROPRIÉE.
- SI VOUS UTILISEZ UN DISPOSITIF DE TEMPORISATION, UTILISER UN SEUL QUI EST ENTIÈREMENT À LA TERRE.
- NE TOUCHEZ PAS LA PRISE DE CORDON LAMPE ALORS QUE L'APPAREIL EST BRANCHÉ.
- DÉBRANCHEZ L'APPAREIL DE LA SOURCE D'ALIMENTATION AVANT DE DÉPLACER L'APPAREIL, BRANCHER OU DE DÉBRANCHER LE CORDON DE LA LAMPE, OU LE REMPLACEMENT DE LA LAMPE.
- NE PAS TENTER DE MODIFIER L'APPAREIL. CELA ANNULERAIT LA GARANTIE.
- NE PAS EXPOSER LE BALLAST À L'EAU.
- UTILISEZ L'APPAREIL UNIQUEMENT À L'INTÉRIEUR.

INSTALLATION

1. POSITION THE BALLAST USING ONE OF THE FOLLOWING OPTIONS:

- A. MOUNT THE BALLAST BY THE BASE IN A STABLE LOCATION. USE HEAVY-DUTY SCREWS (NOT INCLUDED) THAT CAN SUPPORT THE WEIGHT OF THE BALLAST.
- B. PLACE THE BALLAST ON A FLAT, STABLE SURFACE.
- C. SUSPEND THE BALLAST FROM AN ADEQUATE SUPPORT BY THE HANGING TABS. ION BALLAST HANGING HARDWARE (AVAILABLE SEPARATELY) CAN ALSO BE ATTACHED TO THE 1000W MODEL.

2. CONNECT A LAMP CORD, WITH LAMP INSTALLED, TO THE BALLAST OUTPUT RECEPTACLE. INSTALL A LAMP, MATCHING THE WATTAGE TO THE DEDICATED BALLAST WATTAGE (EX: PAIR A 1000W BALLAST WITH A 1000W LAMP). DO NOT OPERATE LAMPS ABOVE THEIR RATED WATTAGE (EX: DO NOT PAIR A 1000W BALLAST WITH A 400W LAMP).*

3. PLUG THE BALLAST POWER CORD INTO A POWER SOURCE OF THE APPROPRIATE VOLTAGE. A 120-VOLT CORD IS INCLUDED WITH THE UNIT. CORDS FOR 208- AND 240-VOLT OPERATION ARE AVAILABLE SEPARATELY.

*REFLECTOR, LAMP CORD AND LAMP SOLD SEPARATELY.

WATTAGE SETTINGS

USING THE VARIABLE WATTAGE DIAL, DIM THE BALLAST TO A LOWER WATTAGE SETTING FOR DECREASED LAMP OUTPUT, OR SET TO THE SUPER CHARGE SETTING TO BOOST LAMP OUTPUT UP TO 10 PERCENT. THE BALLAST'S SOFT DIMMING TECHNOLOGY WILL GRADUALLY ADJUST THE OUTPUT LEVEL. ALWAYS OPERATE THE LAMP AT FULL POWER FOR AT LEAST 15 MINUTES PRIOR TO DIMMING.

LED STATUS INDICATORS

LOCATED ABOVE THE VARIABLE WATTAGE DIAL, THE GREEN LED INDICATORS ILLUMINATE TO IDENTIFY THE SELECTED WATTAGE SETTING. THE SELECTED LED WILL FLASH TO INDICATE THE BALLAST STATUS IF THE LAMP IS NOT IGNITED.

# OF FLASHES	STATUS	DESCRIPTION
1	BALLAST LOCKED	THE BALLAST MADE FIVE FAILED ATTEMPTS TO IGNITE THE LAMP. DISCONNECT THE BALLAST FROM THE POWER SOURCE, AND THEN RECONNECT IT.
2	CONNECTION LOCKED	AN UNEXPECTED ERROR OCCURRED, SUCH AS A SHORT OR OPEN CIRCUIT. ENSURE THE LAMP IS INTACT AND SECURELY SEATED IN THE SOCKET, AND ENSURE THE POWER AND LAMP CORDS ARE SECURELY CONNECTED TO THE BALLAST.
3	LOW INPUT VOLTAGE	THE VOLTAGE SUPPLIED TO THE BALLAST IS TOO LOW. ENSURE THE POWER SOURCE MATCHES THE POWER CORD VOLTAGE AND THE SPECIFICATIONS OF THE BALLAST.
4	HIGH TEMPERATURE	THE BALLAST WILL SHUT DOWN AT TEMPERATURES ABOVE 140°F AND REACTIVATES WHEN THE TEMPERATURE DROPS BELOW 140°F.
5	HIGH INPUT VOLTAGE	THE VOLTAGE BEING SUPPLIED TO THE BALLAST IS TOO HIGH. ENSURE THE POWER SOURCE MATCHES THE POWER CORD VOLTAGE AND THE SPECIFICATIONS OF THE BALLAST.
6	IGNITION BUSY	THE BALLAST IS ATTEMPTING TO IGNITE THE LAMP.
7	LAMP FAULT	THE LAMP RATINGS ARE NOT WITHIN THE REQUIRED RANGES. REPLACE THE LAMP WITH ONE HAVING THE CORRECT SPECIFICATIONS.

TROUBLESHOOTING

NOTE: REMEMBER TO ALWAYS DISCONNECT THE BALLAST FROM THE POWER SOURCE BEFORE SERVICING.

THE LAMP ISN'T IGNITING.

SEE THE LED STATUS INDICATORS SECTION ABOVE, SINCE THE BALLAST MAY BE DIAGNOSING THE PROBLEM OR ATTEMPTING TO IGNITE THE LAMP. CHECK THAT THE TIMER, CONTROLLER AND OUTLET ARE WORKING PROPERLY. IF THE OUTLET DOESN'T SEEM TO BE WORKING, CHECK THE CIRCUIT BREAKER. VERIFY ALL CABLE CONNECTIONS ARE SECURE AND THE RATED LAMP WATTAGE MATCHES THE BALLAST WATTAGE. USE THE BALLAST WITH A LAMP THAT IS CONFIRMED TO BE FUNCTIONING PROPERLY. IF THE LAMP STILL DOES NOT IGNITE, FOLLOW THE WARRANTY CLAIM STEPS. THIS BALLAST FEATURES END OF LAMP LIFE RECOGNITION, WHICH AUTOMATICALLY POWERS OFF THE BALLAST (FOR SAFETY AND BALLAST PROTECTION) WHEN LAMP DEGRADATION REACHES PRESET LIMITS. IF THIS FEATURE IS TRIGGERED, REPLACE THE LAMP TO RETURN THE BALLAST TO NORMAL OPERATION.

THE BALLAST STOPPED OPERATING.

EXCESSIVE TEMPERATURE, SHORT OR OPEN CIRCUITS, POWER SURGES AND OTHER CONDITIONS CAN TRIGGER INTEGRATED SAFETY FEATURES, RESULTING IN UNIT SHUTDOWN. SEE THE LED STATUS INDICATORS SECTION ABOVE, SINCE THE BALLAST MAY BE DIAGNOSING THE PROBLEM OR ATTEMPTING TO REIGNITE THE LAMP. UNPLUGGING THE BALLAST FOR AT LEAST 15 MINUTES, CHECKING AND RESETTING THE CIRCUIT BREAKER, AND/OR REDUCING THE NUMBER OF DEVICES CONNECTED TO THE CIRCUIT MAY ALSO RESOLVE THE PROBLEM. TEST THE CIRCUIT FOR POSSIBLE GROUND FAULTS, ESPECIALLY THE GROUND CONNECTION ON THE MOGUL SOCKET. IF THE BALLAST STILL DOES NOT POWER ON AND/OR THE GREEN LED CONTINUES TO INDICATE AN ERROR, FOLLOW THE WARRANTY CLAIM STEPS.

ION® Electronic Ballast Limited Warranty

What This Warranty Covers

This warranty covers defects in materials and workmanship under normal use, with any exceptions stated below.

Who This Warranty Covers

This warranty applies to the original purchaser of this ION® product with the original proof of purchase.

How Long Warranty Coverage Lasts

This warranty is in effect for a period of three years from the original date of purchase.

What This Warranty Does Not Cover

This warranty does not cover damage or defects resulting from the improper installation, alteration, abuse, accidental damage, unauthorized repair or misuse of this product. Misuse includes but is not limited to outdoor use. This warranty does not apply to cosmetic defects or other defects that do not affect the functionality of the product, and is void if the product has been damaged as a result of fire, flood, or other natural disaster. BWGS shall not be responsible for any incidental or consequential damages of any nature, including damage or injury caused to other products, machinery, buildings or property; loss of profits, time or product; or inconvenience. The original proof of purchase MUST accompany the ION product for this warranty to be valid. This warranty is given in lieu of all other warranties, express or implied, including without limitation merchantability and fitness for a particular purpose.

Some states do not allow the exclusion or limitation of incidental and consequential damages, or limitations on how long an implied warranty lasts, so the above limitation(s) may not apply to you.

What BWGS Will Do

If BWGS determines the warranted product is defective in materials or workmanship during the warranty period, then BWGS, at its option, will either repair or replace the product. In no event shall the cost of repair or replacement exceed the original purchase price.

How to Obtain Warranty Service

Return this product along with the original proof of purchase to the place of purchase in accordance with store policy.

How State Law Applies

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For technical support and warranty information, call toll-free 888-464-9676 or email info@bwgs.com.