Golden Scorpion

Electronic Ballast for High-pressure Sodium

GS-SHW1U7AX12

Product Manual

Tel: 010-52985603
E-mail: Jason@golden-scorpion.com
Web: www.golden-scorpion.com

Golden Scorpion

1 Features & Benefits：

- Suitable Lamp：

  1000W HPS of PHILIPS Master Greenpower TD 1000W EL Plus double end lamp

  Gavita Pro 1000W EL DE double end lamp

- Electronic ballast for single lamp, suitable for horticulture/ indoor/greenhouse use.
- Lower input wattage and energy saving compared with magnetic system
- Long lamp life by constant output power
- High frequency lamp operation, preventing acoustic resonance in the lamp arc tube
- Various protection functions: output short circuit protection, output open circuit protection, lamp ignition failure protection, etc.
- Ballast life reaches to 10，000 hours with top case temperature less than 70℃
- Light weight and no noise
- Easy to install and convenient for use
- Green , reduce the pollution to the power net

Tel：010-52985603
E-mail：Jason@golden-scorpion.com
Web：www.golden-scorpion.com

2 Electronic Parameter:

- Input Characteristic
- Input Voltage/ VAC： 120～240V
- Input Voltage Range(%)： +/-10%

- Power Line Frequency(HZ)： 50/60 Hz
- Input Power Factor (PF)： ≥ 0.98
- Line Current Harmonics (THD) [%]： ≤10%
- Inrush Current(A)： ≤40
- Maximum Line Current: 11.6A@108V,5.8A@216V
- Output Characteristic
- Lamp Operating Frequency(KHZ)： >110@1000W

- Output wattage range： +/-5%
- Efficiency: ≥95%@240V
- Ignition Method： Resonance ignition
- Ballast Characteristic
- Max Length of lamp cord (m)： 0.3
- Max Length input wire (m)： 4
- Environmental Requirements
- Max. Case Hot Spot Temperature(°C)：70
- Ambiant TEMP(°C)： -20 - +40

Tel：010-52985603
E-mail：Jason@golden-scorpion.com
Web：www.golden-scorpion.com

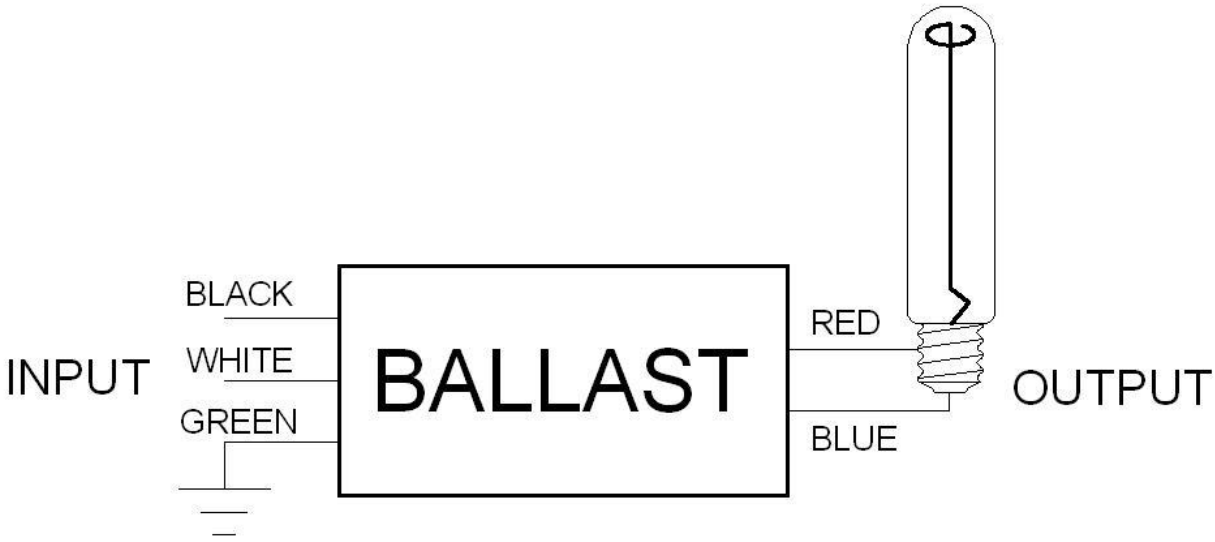
- Humidity： 70%

3 Product Parameter

- Length：9.80" [250mm]
- Width： 6.22" [158mm]
- Height： 3.85" [98mm]
- Case： Metal

Tel：010-52985603
E-mail：Jason@golden-scorpion.com
Web：www.golden-scorpion.com

4 Wiring Diagram



5 Installation Notes

- Make sure the correct connection of input and output wires of electronic ballast
- Place the ballast in safe and reasonable position, especially paying attention to waterproof
- Connect output wires of ballast with metal halide lamp in a solid and safe way
- Match ballast with compatible lamp（1000W HPS）
- Do not have live-line working when connecting input wires
- Power ballast in AC240V after everything is readily connected

Tel：010-52985603
E-mail：Jason@golden-scorpion.com
Web：www.golden-scorpion.com

6 Cautions:

- Please use this product under the regulated power and environment temperature.
- Must consider heat elimination of electronic ballast when selecting lamp, ensuring top case temperature no more than 70℃.
- Case of electronic ballast must be grounded in proper way.

NOTE:

This device complies with Part 18 of the FCC Rules.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45－30 MHz. If this occurs, please change outlet or move the lamp far away from other appliance.

(a)The interference potential of device or system:

“Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

(b)Simple measures that can be taken by the user to correct interference:

“NOTE: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.”