



# Solutions Bulletin

## November 2012

### Energy & Consumables Reduction FAQ issues..



Induction is a 120 year old technology.

ADG Eco Induction fixtures' solid state electronics are among its top selected products.

Throughout the history of Installations by either Authorized ADG Eco Dealers or its Sub-contractor Resellers we have found there to be issues that can cause the induction fixtures not to work. This does not mean that the fixtures won't work. However, relative to the application they are used, this may cause repeated system shutdown or failure.

Any item that is a issue covered under our ADG Eco 10-year Limited Manufactures Warranty will be taken care of in a timely manner. We will also help trouble shoot issues.

Any issue caused by other than warranty circumstances we will take care of; however, there may be an expense involved.

Please take the time to review the back of this sheet for FAQ and a run thru of so-called electrical anomalies. There is always a solution that may not require a product swap.

Project Inquiries Welcome

Fund your projects through our RED Savings program

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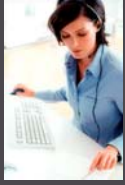
UL ETL ISO Energy Star FCC

High Energy Efficiency Equipment

Charter Member of National Eco Friendly Lighting Dealers Association



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**1: What is the induction lamp system and how does induction lighting work?** ⇨ The induction lamp system uses a technology of light generation that combines the basic principles of induction and gas discharge. Our technology delivers 100,000 hours of high quality white light.

**2: What are the components of the system?** ⇨ The system is comprised of three components; the generator, the power coupler and lamp. The power coupler transfers energy from the HF generator to the discharge inside the glass bulb using an antenna that contains the primary induction coil and its ferrite core. The power coupler also has a heat conducting rod with mounting flange. The mounting flange allows the Induction lamp system to be mechanically attached to the luminaries.

**3: Can running a lamp interfere with computers or any other electronic device?** ⇨ No. It runs at a low 210KHz and complies with FCC rules with no interference under normal circumstances.

**4: Will the induction lighting system interfere with telecommunication equipment?** ⇨ No. The FCC standards are in place to protect navigation and radio communications. The system will not interfere with portable or cellular/mobile phones.

**5: Does operating position affect output?** ⇨ No. when the fixture is installed in accordance with instructions. The universal operating position does not affect the performance of the induction lamp system. Our made to order kit or ADG Eco Fixtures all are tested in our ETL & NEFLDA approved facility.

**6: Is the induction lamp system vibration-resistant?** ⇨ Yes. The fact that induction lamps have no electrodes make them more reliable in high-vibration and gusty applications. The induction lamp system has proven its durability in bridges, tunnels, and signage applications. **But the bulb has a fracture in it.** It may have been hit during installation and there is a slow gas leak. This is not a warranty issue.

**7: What, if any, is the effect of voltage supply fluctuations on the performance of the induction system?** ⇨ Due to the built-in pre-conditioner in the HF generator, which provides a well stabilized internal supply voltage (a wide operating voltage range of +/- 20V) to the HF generator, the light output, consumed power and system (efficiency) of lamp system vary by less than 2% as a result of mains voltage fluctuations. There is no noticeable effect (visual or measurable) on the color performance (color temperature, color rendering, etc.) due to supply voltage fluctuation. ADG Eco fixtures are 110 to 277v multi-tap and at 480v use a step down transformer.

**8: Is any other induction motor on the same line as the induction light ok?** ⇨ No. Due to recent review of several installations where fixtures/ induction electronics were not turning on, we discovered other induction motors causing problems. Drinking fountains, exhaust fans, pool equipment.

Resolution = isolate the circuits for the lighting only and insure the panel is well buffered from these interferences.

**9: There has been continued failure with the same light fixture after the warranty internal electrical was replaced.**

⇨ Well then it is not a warranty issue. There is an electrical anomaly.

Review electrical = is there a GFI attached to this line, what other equipment is attached?

Faulty motion detector, faulty controllers, or line interference from dirty power i.e. spikes.

**10: The fixture smells like burnt plastic and is not operating.** ⇨ This is a burnt capacitor and is covered under our Limited Manufacturer warranty

**11: Other issues to look for** ⇨ Crossed wires, ground is not attached to hub (see wire diagram on generator), moisture or water has attacked the wires (casing is rated outdoor type 1/ class P), blown circuit breaker. The Green plug ends may not be secure causing intermittent on-off.