

Induction Lighting – Questions & Answers



Garages

INDUCTION WATTS		EQUIV. HID WATTS
40W	≈	80W
80W	≈	175W



Street Lights

INDUCTION WATTS		EQUIV. HID WATTS
40W	≈	80W
80W	≈	160W
120W	≈	250W

Q1. What is induction lighting and how does it work?

A1. The **AITI** inductively coupled electrode-less lamp uses magnetic-induction technology instead of electrodes found at the end of a fluorescent tube to generate light. The absence of these electrodes allow longer lamp life.

Q2. What are the components of the AITI Induction System?

A2. The system is comprised of two components; **The Patented IC Generator** and the lamp.

Q3. Why Induction Lighting?

A3. Induction lighting offers an incredible **100,000 hours of life** making it virtually **maintenance free**. With ≥ 90 CRI and a wide range of color temperatures, 2700-6500K, this lamp delivers the most reliable source of light. Whether it is extreme operating temperature conditions or even on and off applications, **AITI** is the solution.

Q4. Can running a lamp interfere with computers or any other electronic devices?

A4. NO! The **AITI** systems complies or exceeds Low EMI Standards of FCC (47CFR Part No. 18 Non-Consumer) rules with non-interference under normal circumstances.

Q5. Will the lamp interfere with telecommunication equipment?

A5. NO! The lamps and generators are certified to meet or exceed FCC standards (47CFR Part No. 18 Non-Consumer) and are in place to protect interference of navigation and radio communications. These units will not interfere with portable or cellular phones.

Q6. Is the light output of the AITI system affected by Low / High temperatures?

A6. With our proprietary amalgam technology and IC technology our lamps provide a stable light output over a wide range of ambient temperatures, maintaining at least 90% of normal lumens from -30° F to 260° F and will start at temperatures as low as -40° F

Q7. Does operating position affect the output?

A7. No. The universal operating position does not affect the performance of the **AITI** Induction System

Q8. What is the color shift of the AITI Induction System?

A8. This systems operating as most typical fluorescents with the respect to phosphors and **will not deviate over time.** The systems will retain 90% lumen output over the life of the lamp.

Q9. Is the AITI Induction System dimmable?

A9. Yes. It is dimmable and should be available by January 2008.

Q10. Can the AITI Induction System be used for a flashing beacon?

A10. Yes. With the new IC technology generators constant on and off usage will have no impact on the life of the system.

Q11. Will the AITI Induction System fade or damage materials?

A11. The amount of ultraviolet light generated by induction is roughly equivalent to that of linear fluorescent tubes. The damage factor for materials is rated as a low 0.3 factor so induction can be used in open luminaires without any front glass

Q12. Is the AITI Induction System vibration-resistant?

A12. Yes. The fact AITI Induction Systems have no electrodes makes it more reliable in high-vibration and gusty applications. AITI Induction Systems have proven durability in bridges, tunnels and signage applications.

Q13. What if any, is the effect of voltage supply fluctuations on the performance of the AITI Induction system?

A13. Due to a pre-built conditioner in the HF Generator, it provides a well stabilized internal supply voltage (+/- 15% of the supply voltage) to the HF Generator, the light output, consume power and systems efficacy of the lamp systems varies less than 1% as a result to mains voltage fluctuations. There is no noticeable effect on the color performance or rendering outputs.

Q14. At the end of life, must all components be replaced?

A14. Each item is separately replaceable, however since we supply everything as a system, even for relamping. End of life usually means that the IC generator is recommended to be replaced, as it is only rated at 100,000 hours.

Q15. How do you dispose of lamps ?

A15. The mercury is contained in an amalgam tip. Just break the tip off and throw the lamp away in the trash. Dispose the tip with your other hazardous material.

Q16. Why are the AITI fixtures worth the investment?

A16. The AITI fixtures offer 5 to 10 times more life than Fluorescent and HID systems. Even at two to three times the cost of these systems it easy to justify due to its high **RETURN ON INVESTMENT** in maintenance savings.

The biggest advantage is how this technology truly makes a difference in our environment. It's a solid solution for dramatic change. Induction lighting creates huge benefits financially and is a positive product for our entire country, as we better use our resources. This is "Beyond Efficient"

COBRA HEADS-ACORNS-WALLPACKS-SHOEBOXES-GAS STATION-GARAGE LIGHTS-HIGH BAYS
QUALITY PRODUCTS – ATTRACTIVE PRICING – TIMELY DELIVERY
Custom Capabilities !!

AITI

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