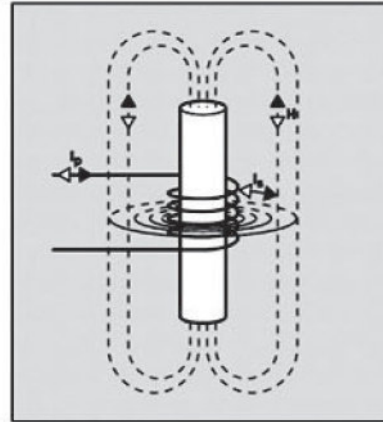


## About Induction Technology

High-frequency Plasma electrodeless induction lamp is called the induction lamp in short term, which integrates the latest scientific development of power electronics, plasma and magnetic material. It couples the energy to the lamp in way of high-frequency induction magnet field to make the gas in the lamp turn into plasma material in the form of snow-slide plasma. The plasma material radiates the UV of 254 nm when it returns to the basic condition with the energized atom. The fluorescent powder on the lamp wall gives off the visible light with the activation of UV light. It removes the problem of the electrode aging of the conventional light sources, which in return extends the lamp lifetime.



principle diagram of electromagnetic induction

- **Long lifetime:** Average lifetime as much as 100000 hours equivalent to 10 to 15 times of lifetime of CFL lamp.maintenance-free in the long run.
- **High lighting efficiency:** more than 80 lm/w, equivalent to 8 or 9 pcs of incandescent lamp in the same wattage.
- **High color rendering index:** 75-85, high resolution & clear and clean color
- **Quick start:** Instant start even at hot lamp or low ambient temperature
- **High power factor:** more than 0.99 resulting in less investment in power cable
- **High-frequency working, no flash and soft lighting** for eyesight protection
- **Low light decay:** The luminance maintenance rate is more than 70% after 60000 hours to ensure enough light output in the lifetime
- **Optinonal color temperatures (2720-6500K)** suitable for difference needs
- **Constant wattage output:** The output wattage is less than 3% with the input voltage variation at  $\pm 20\%$
- **Strong adaptability:** Optional running at -40 degree C
- **Low harmonic distortion:** THD $\leq 10\%$
- **Optional intelligent dimming controls** to realize the energy-saving
- **Green power consumption,** patent design, authority-approved EMC test to eliminate the pollution of the environment and power grid.

