

# LLC-7 High Pressure Spherical Xenon Lamp

- *Short arc*
- *High pressure*
- *Daylight spectrum*
- *Hot re-start*



The lamp is a gas discharge light source and it is filled with high pressure xenon which can be excited by a high voltage and irradiate a strong and continuous spectra from ultraviolet to visible.

The main part of this lamp power is a switching power supply, providing a constant current to the xenon lamp. It has high efficiency and low thermal power.

The lamp power supply provides a DC voltage of 60V to the xenon lamp. High voltage starter generates an instant high voltage of 25KV which breaks down the xenon gas inside the lamp tube. The voltage across the lamp drops down rapidly. After the process of current limiting and transition from constant voltage to constant current, the lamp reaches a stable situation.

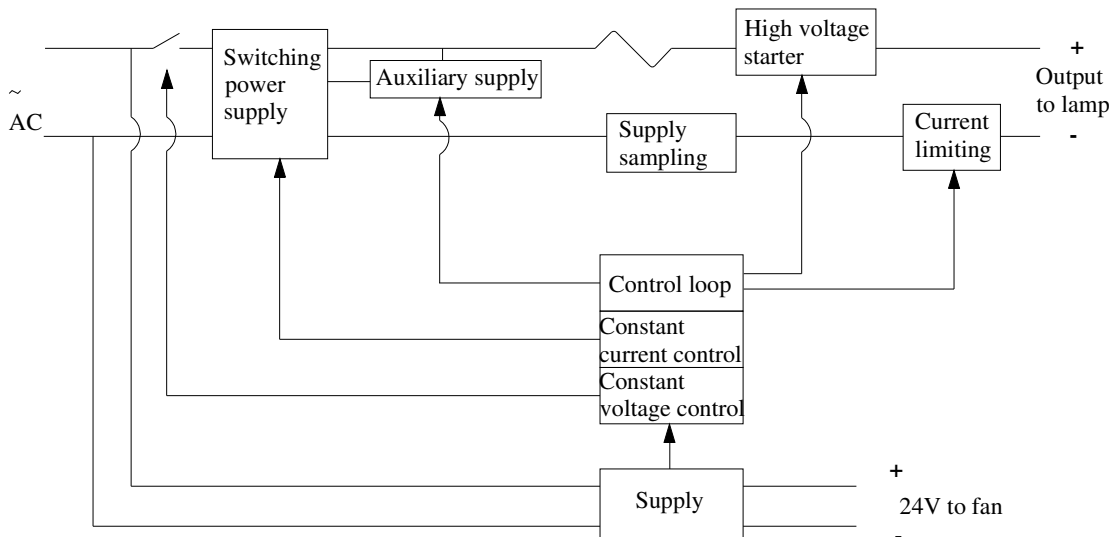
## Specifications

Power supply	AC 180-260V, 50/60Hz
Rated power	150W
Rated current	7.5A
Bulb diameter	Max. 20mm
Electrode gap (cold)	Approx. 2.5mm
Initial luminous flux	Min. 2,400lm
Initial average luminance	Min. 240cd/cm <sup>2</sup>
Colour temperature	Approx. 96K
Average life	1,200h
Ambient Temperature	0 - 50 °C

\*Xenon short arc lamp bulb is made in Germany



## Schematic



Control loop circuit is used to detect the output voltage and current of the switch power supply and performs the function of initiating the high voltage starter, current limiting and over current protection, thus supplying a stable working current to the lamp.

## Note

1. To protect your eyes, do not stare at the xenon lamp while it is working.
2. Occasionally the lamp might not be lit when the ambient temperature is low, try it several times in 25 second intervals.
3. A short discharge noise is normal when the power supply is turned on.
4. It needs warming up for stable output.

## Parts List

Description	Qty
Power supply	1
Xenon lamp box	1
Power cord (complying to Malaysian standards)	1