

# User manual

## Operating Instructions:

- Replaces ordinary incandescent lamp.
- Use on 120V 50/60/Hz circuits.
- Keep away from the flammables.
- Turn the power off before installation, removal, and cleaning.

## Cautions for Use:

- Not for use where directly exposed to water .
- Do not use with dimmers,timers or other control devices.
- Not for use in totally enclosed recessed fixtures.

## WARNING

1. This device complies with Part 18 of the FCC Rules.
2. This product may cause interference to TV or other household equipment ,and if these case occur ,please move them far away from it.
  - This product interference when used near 0.7V, radio,wireless remote control or maritime safety communication equipment,or other critical navigation of communication equipment operating between 0.45----30MHZ. If inteference would occur ,move the lamp away from the appliance a distance of there feet or more ,Or plug the lamp or the appliance into a different outlet.
  - This product complies with Part 18 of the FCC Rules but may cause interference to radios, television,wireless telephones,and remote controls. If interference occurs, move product away from the device or plug either into a different outlet, or move the lamp out of the sight with the remote control receiver.

Block Diagram



### circuit description:

When a power of 120V/50-60Hz is inputted into the ballast, it goes through D1, D2 and C2, C3 to be rectified, filtered and converted into a direct current power. Then the later goes through R1 and R2 to charge C4. As soon as the voltage of C4 is up to  $32 \pm 2V$ . Q2 is actuated. On the actuation of Q2, operating power is goes through C6, C7, L2, L3, Q2, R6 to light the fluorescent lamp tube. The operating power is maintains a stable working status via the two oscillation coils of C6, L3, Q2 and L3, C6, Q1 (Operating frequency: 40-50KHz)