

The BS-series LED bulb has a molded aluminum alloy shell acting as a perfect heat sink for LEDs so as to extend the lifetime over 50,000hrs, which is 50 times longer than the conventional tungsten wire incandescent lamps. The BS series bulb contains a transparent diffuser cover to give out scattering and mild light rays to eyes.



The BS-Series LED bulb possesses a number of advantages over the conventional ones such as no flashing, no mercury, no environment pollution, no fragile glass, low heat, low voltage, high safety, quick response, high color-rendering index, and long lifetime. Compared with the conventional tungsten wire bulbs and fluorescent energy-saving bulbs, the BS-series LED bulbs result in a tremendous reduction of electricity by as much as 90% and 70%, respectively. The bulbs being equipped with various connection types such as E27, E14 and GU10 are well-suited for interior and residence illuminating in simple replacement for the conventional halogen, incandescent and fluorescent lamps directly.

Special Features

- Long lifetime 10-30 years (6 hours a day) leading to little maintenance required;
- Unique optical design leading to star-like beam of light rays;
- High luminaire efficiency over 90%;
- Superior color rendering index up to 90 near daylight quality;
- Power efficiency over 85%, Power factor over 0.85;
- Wide color of temperature range from 3000K--7000K available;
- Constant current and low-voltage drive mode leading to high safety and no flashing;
- Standard E14, E27 and GU10 interface;
- Green and environment-friendly: small heat, lead-free, no-mercury, no fragile glass, no environment-harmful materials;
- Tremendous energy saving: more than 90% electricity saving over conventional incandescent lamps and more than 70% electricity saving over conventional fluorescent energy-saving lamps.

Product catalog

| Part no. | Light power | Supply voltage | Frequency | Interface |
|----------|-------------|----------------|-----------|--------------|
| AL-BS02 | 2W | AC 110V/220V | 50/60Hz | E14/E27/GU10 |
| AL-BS03 | 3W | AC 110V/220V | 50/60Hz | E14/E27/GU10 |
| AL-BS04 | 4W | AC 110V/220V | 50/60Hz | E14/E27/GU10 |
| AL-BS05 | 5W | AC 110V/220V | 50/60Hz | E14/E27/GU10 |
| AL-BS06 | 6W | AC 110V/220V | 50/60Hz | E14/E27/GU10 |
| AL-BS07 | 7W | AC 110V/220V | 50/60Hz | E14/E27/GU10 |

AL-BS04 Electrical Characteristics

| item | Min. | Typ. | Max. | Note |
|------------------------|------|-----------|------|------|
| Input Voltage (V) | 90 | 110/220 | 240 | |
| Electric Current (mA) | 60 | 79.4/64.3 | 97.4 | |
| Input Power (W) | 5.1 | 5.1/5.6 | 5.69 | |
| Light Power (W) | -- | 4 | -- | |
| Power Factor | 0.39 | 0.5 | 0.58 | |
| Power Efficiency | 0.77 | 0.78 | 0.79 | |
| THD | 10% | 12% | 15% | |
| Current Error | 1% | 2% | 5% | |
| Ripple Noise (V) | 0.2 | 0.5 | 1 | |
| Turn On Delay Time (S) | 0.1 | 0.5 | 1 | |

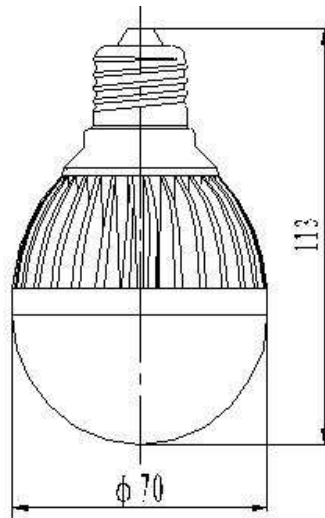
AL-BS04 Optical Characteristics

| Item | Parameter |
|--------------------------|--|
| LED Lighting Efficiency | ≥ 90 Lm/W |
| Initial Luminous Flux | ≥ 250 Lm (T _j =25°C) |
| Maintained Luminous Flux | ≥ 240 Lm (T _j =70°C, T _a =25°C) |
| Luminaire Efficiency | $\geq 88\%$ |
| Color Rendering Index | ≥ 80 |
| Color Temperature | 6000K-7000K |

AL-BS04 Working Characteristics

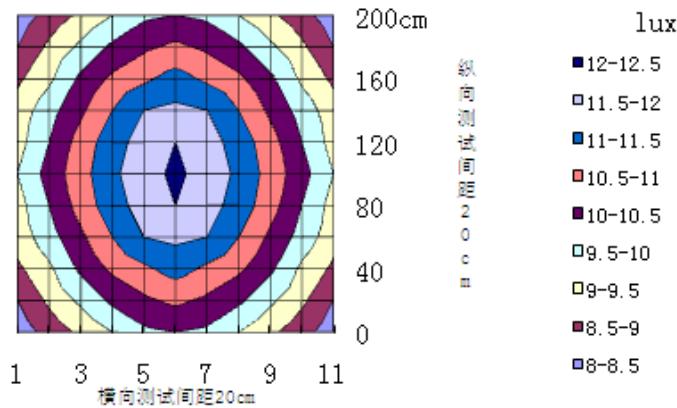
| Item | Parameter |
|---------------------|--------------|
| Working Temperature | -20°C-45°C |
| Storage Temperature | -40°C-85°C |
| Adaptive Humidity | $\leq 90\%$ |
| MTBF | 50000 hrs |
| Dimension | 70mm * 113mm |
| Interface | E27 |
| Weight | 150g |
| Recommended Height | 2.5m |

AL-BS04 structure drawing



Light Distribution and Illuminance Chart

4W LED灯泡照度图 (2.5m)



Lumen depreciation curve

灯泡光衰曲线图

