



**Electronic ballasts** are electronic control devices that use semiconductor electronic components to convert direct current or low-frequency alternating current voltage into high-frequency alternating current voltage, and drive the operation of low-pressure gas discharge lamps (germicidal lamps), halogen tungsten lamps, and other light sources. Their main function is to control the current and voltage of electrical equipment, preventing problems such as overload and short circuit. Under the action of high-frequency current, gas discharge lamps can emit light without producing high-voltage ignition, and there is no flickering sensation in the lighting tube.

## ZUP13 Series

- 100–240 VAC, 50/60 Hz full voltage input
- With water flow switch, delay-off function
- Program pre-heat start
- Lamp abnormal protection, sound, and light alarm
- Fully IP67 waterproof



## Specifications

### ZUP13 Series

Model	Input Voltage	Output Current	Input Power	Lamp Holder Type	Applicable Lamp	Start-Up Model
ZUP13-425-55	100–240 VAC	425 mA	10–55 W	G10Q	UVT5-410 — UVT5-455	Pre-heat start
ZUP13-800-87	100–240 VAC	800 mA	33–87 W	G10Q	UVT5-433 — UVT5-487	Pre-heat start