



HQUA-EBS51-425-40L

Countdown Timer Electronic Ballast

Instruction Manual

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I Product Introduction


Thank you for purchasing and using HQUA-EBS51-425-40L countdown timer electronic ballast. It's compatible with HQUA-OWS-12L and HQUA-OWS-6L UV lamp.

The product has three operating features: pre-heating start; indicator alarm and buzzing; lamp life timer (**count down**) and ballast cumulative work timekeeping (**positive timing**).


The product consists of three parts: the input and output lines and the host box. The host box contains: indicator part ①, nixie tube ②, and button ③ for human-computer interaction. The usage of this product is simple and clear, please read the following operation manual carefully for all the necessary information.

EPS51-425-40L


Input: 99V To 264V AC 50/60 Hz
 Max. Current : 0.41A@110V/0.2A@240V
 Lamp Type: GPH212T5L~GPH893T5L
 Lamp Power: 10~40W
 Lamp Current: 0.38~0.43A
 Ambient Temperature: 0~40°C
 Class P
 Type 1 outdoor
 High Power Factor Enclosure shall be grounded
 Type HL For use in permanently connected (fixed) equipment only



Lamp Life
Total Days Running




③




①

- Press Button To Display Total EPS Operating Days
- Press & Hold Button for 2~5 Seconds To Silence End of Lamp Life Alarm For 7 Days(Max. 4 times)
- Press & Hold Button for 10 Seconds to Reset Lamp



UL LISTED E360262 t_c* = MAX 70°C



FLUORESCENT LAMP BALLAST

II Technical Parameters

Model	HQUA-EBS51-425-40L
Input:	99 V To 264V AC 50/60 Hz
Max. Current :	0.41 A@110V/0.2 A@240V
Lamp Type:	GPH212T5L~GPH893T5L
Lamp Power:	10-40W
Lamp Current:	0.38-0.43A
Ambient Temperature:	0-40°C
High Power Factor	Enclosure shall be grounded
Input Cord Length	1.6 m/5.2 feet
Output Cord Length	0.8 m/2.6 feet

III Operation Manual

The timing of the ballast working hours is positive (0-9999 days); the lamp life timing is countdown (365-0 days). The main interface content default displayed by nixie tube ② is the life of the lamp. In normal operation, the green indicator is always on, the lamp life is counted down, and the ballast is counted by increment.

1. Short press button ③ (less than 2 seconds), the nixie tube ② will display the ballast working time; short press it again, the nixie tube will display the lamp life.

2. When the lamp life is reduced from 1 to 0, the nixie tube displays A3, and the indicator ① flashes red. At this time, the host box beeps, indicating that the system needs to replace the lamp.

3. If you do not have a lamp to be replaced temporarily, you can temporarily clear the alarm up to four times. After four times, the alarm cannot be eliminated unless a lamp reset operation is performed or the circuit is disconnected.

Temporary alarm release: short press button ③ (about 5 seconds), the buzzer stops, and the red indicator still flashes; the nixie tube remains displaying A3, and the built-in lamp life restores to 7 days. When the lamp life reaches 0 again, the alarm signal is given again.

4. Lamp life reset operation: press and hold button ③, the nixie tube will display “rSEt” first. After holding the button for five seconds, the tube will display 365; with a buzzer sound, release the button. By this time the lamp life setting has been completed.

5. HQUA-EBS51-425-40L has power-off memory function: When the power is cut, and the timer still refers to the data before power-off, and continues the timing of lamp life and ballast service time when it is powered again.

IV Troubleshooting

<p>The nixie tube has no display and no indicator on the host box.</p>	<ol style="list-style-type: none"> 1. Check whether the power supply line is normal and electrical connection is tight. 2. Ballast fault.
<p>The nixie tube time display is normal, but the red indicator flashes with a beep and the alarm cannot be removed.</p>	<ol style="list-style-type: none"> 1. For tube failure, first check the electrical connection. 2. Replace with a spare lamp and test again. 3. Ballast fault.

Notes: **1. In case of lamp failure, the buzzer beeps once every second.**
2. When the lamp life reaches 0, the buzzer beeps once every five seconds, the lamp life remains unchanged, and the life time of the ballast still increases progressively.

V Warranty agreement:

One-Year Limited Warranty for Electronic Ballast

HQUA warrants that the Electronic Ballast is free from defects of material and workmanship for a period of one (1) year from the date of purchase. During this period, HQUA will repair or replace, at its option, any defective parts covered by the warranty. Please return the defective part to your dealer for claim.

Email:hqua_qin@163.com

.....**End**.....