

Greenenergy lighting Co.,Limited

2L/MIN Running Water UVC LED Sterilizer

Datasheet

Customer

Products

P/N

sales

Date

Greenenergy	
Prepared	
Checked	
Approved	

Buyer	
Prepared	
Checked	
Approved	

A:No29 Xiangzui Road,Xueshi Street,Yuelu Dist,Changsha,410208,China

T: +86-731-84823478 | T:+86-18908492447

Whatsapp: +86-18908492447 | Skype:greenenergylighting

E: sale1@lvlamp.com | lednail@163.com

W: www.lvlamp.com | Wechat:MRleds

120L/h Pressure-type Running Water UVC LED Sterilizer

一. General:

1. The application of the product:

This sterilizer is applicable to the terminal sterilization of the running water and the faucet for domestic and similar water purification machines

2, Reference documents as per China National Standard:

GB/T191 (GB/191-2008, ISO780:1997, MOD):Packaging-Pictorial Marking for Handling of Goods

GB/T1019 General Requirements for the Package of Household

GB/T2423.17 Environmental Testing for Electric and Electronic Products Part 2: Test Method , Ka: salt fog

GB/T2828.1 Sampling Procedures for Inspection By Attributes part 1: according to the receiving quality limit (AQL), the batch inspection sampling plan (GB/T2828.1-2003, ISO, 2859-1:1999, IDT) is searched.

GB/4706.1 Household and Similar Electrical Appliances-Safety parts1: General requirements

GB/5749 Standards for drinking water quality

GB/T5750 Standard examination methods for drinking water

QB/4827 Household and similar devices with ultra-violet disinfection of drinking water treatment unit

二, Specifications of 120L/h pressure-type running water UVC sterilizer.

2-1 Output power: $\geq 50\text{mW}$

2-2 input voltage: DC12V/24V/36V

2-3 rated current: $\geq 300\text{mA}$

2-4 safety protection: Anhydrous electrifying (over temperature protection), water leakage (alarm and power off) protection, detection of the UVC-LED working state

2-5 water temperature: $\leq 38^{\circ}\text{C}$

三. Product performance:

3-1 Sterilization rate $\geq 99.9\%$ if water flow $\leq 2\text{L/min}$, bacteria $\leq 3 \times 10^3 \text{ cfu/mL}$

120L/h Pressure-type Running Water UVC LED Sterilizer

3-2 Device Tightness by static pressure test, 1.2MPa = 15min (Testing carried out according to; QB/4827 Household and similar devices with ultra-violet disinfection of drinking water treatment unit:6.4.2The guidance of structure performance test) . Cyclic pressure test is also conducted according to the guidance of 6.4.2 structure performance test in QB/4827.

3-3 Lifespan: > 5000h

3-4 Terminal tensile strength: should be able to bear more than 30N of tension

3-5 DC Connector (waterproof) pluggable force: 0.3Kgf to 3.0Kgf

3-6 DC Connector (waterproof) test time for salt and fog : 48h (neutral salt spray test on the audio terminals. After testing for 48 hours, the surface is free from rust and the terminals can work normally).

3-7 Male and female DC Connector (waterproof) life: 3000 times

四, electronic control and UVC-LED optical power detection:

4-1 UVC wavelength range test: 275nm ~ 280nm, using the integral ball, the UVC LED output is not less than the specified power value. (Note: the output optical power measurement tolerance is + 10%. The tolerance of the main wavelength measurement is + 1nm.)

4-2 insulation test: AC1500V, 50HZ voltage is applied between the charged part and the shell, and 1min is maintained.

4-3 cable lead end strength test: the lead is not less than 10N pulling force, maintain 1min, do not appear loosening, falling off and other abnormal phenomena.

4-4 DC Connector (waterproof) salt spray test: the test was carried out according to GB/T2423.17 and GB/T10125, and the whole sample was tested by 12h salt spray. The test conditions: temperature $35 \pm 3^{\circ}\text{C}$, and 5% NaCl was sprayed continuously. The pH was from 6.5 to 7.2. Before the test, the sample must be clean, no oil, no temporary protective layer. After test, Please wash away the residual salt on the surface of the test sample by < 40 degrees Water, and then place the samples in 1~2 hours under ventilated conditions. Finally, the appearance check and function test are carried out, and the metal parts of the sample are not rusted and corroded obviously, and the function meets the related requirements.

4-5 high and low temperature test: the product can work reliably in the range of temperature -10 to 40 C; the product can be stored reliably in the range of temperature from -20 to 55.

五 Tips for storage

The temperature is 10 to 55, the humidity is 30% ~ 65%, and the antistatic bubble bag is sealed. In order to guarantee the quality of the product, it is suggested that the outer packing bag should be used within one year after opening the outer packing bag. After opening the outer packing bag, it is suggested that it should be used within 28 days.

六 size

