

PPM-DT8A

Product Datasheet SPECIFICATIONS



UVC LED Pueple Planet Mods



深圳市华瑗科技有限公司
ShenZhen HUAAL Technology Co., Ltd.

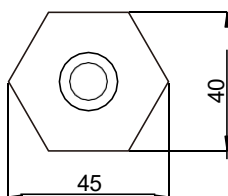
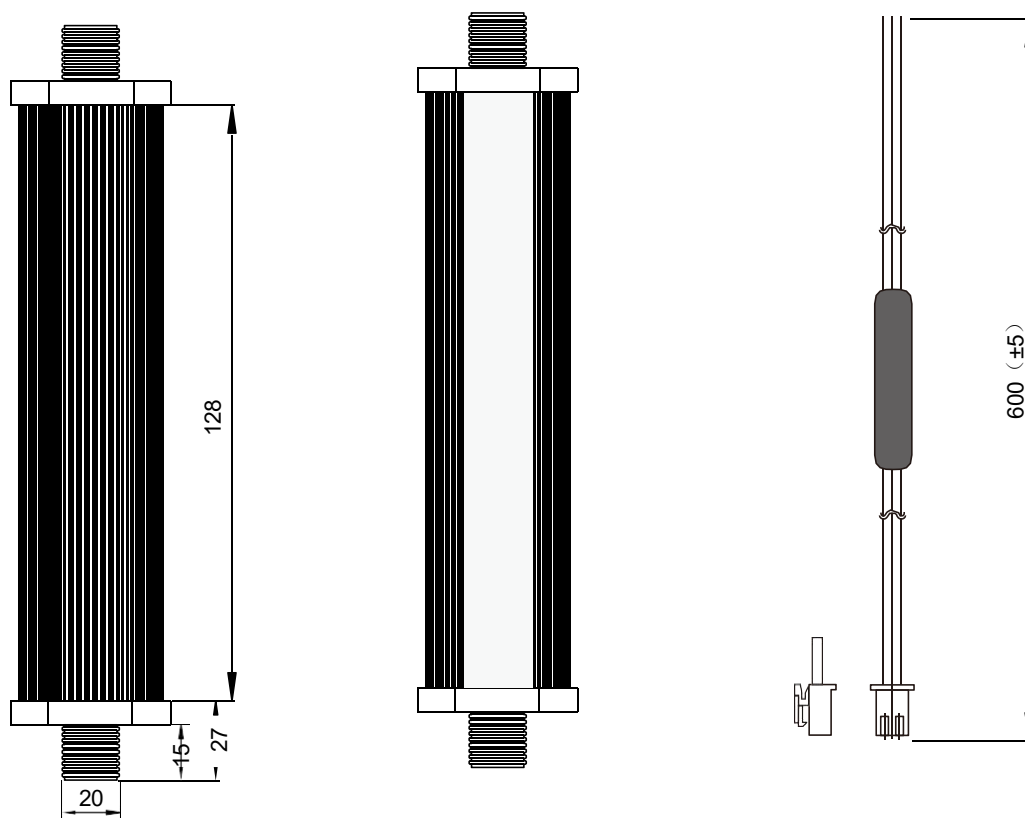


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1. Schematic Diagram



单位: mm

Technical Requirements:

I. Main Body:

1. Made primarily of aluminum alloy, comes standard with a 1/4-inch stainless steel spout;
2. The length of the wire can be customized according to customer requirements;

II. Features:

1. Static Pressure Requirement: Withstands a pressure of 30 kg for 10 minutes without deformation or damage, and continues to function normally;
2. Burst Pressure Requirement: Withstands a burst pressure of 200 PSI for 5 seconds without deformation or damage, and continues to function normally;
3. Bactericidal efficiency: $\geq 99.99\%$;
4. Rated voltage: 12 V DC/24 V DC;
5. UVC power: 400 mW–420 mW;
6. Operating Pressure: 0.1–0.6 MPa;
7. Complies with the Technical Specifications for the Health and Safety Evaluation of Water Distribution Equipment and Protective Materials for Potable Water;
8. The product complies with RoHS 2.0 requirements.

Product Features

- Deep-Ultraviolet UVC LED Light Source
- Lead-free and mercury-free, eco-friendly
- All parts that come into contact with water are made of food-grade materials.
- IP65 Protection Rating

1. Key Specifications

Name	MinimumValue	Average	MaximumValue	Unit
Electrical Specifications				
Input Voltage	24			V
Input Power	10			W
Electrical Interface	DC Plug			
LED Chip Specifications	TA=25℃ L70≥10000hour 5-6V 30-40mW 270-280nm			
Insulation Withstand Voltage	AC500V 50HZ / 1min Human Figure			
Structural Parameters				
Module Dimensions	180x45x40 (including inlet and outlet ports) mm,See the structural diagram for details.			
Material	Aluminum alloy housing;the parts in contact with water are made of high-purity JGSL-2 grade quartz and 304 stainless steel			
Inlet and Outlet Connections	4-point standard external threaded connection			
Operating Environment				
Rated Pressure Rating	20	— — —	— — —	Mpa
Water Flow Velocity	8	— — —	10	L /min
Operating/Storage Humidity	30%	— — —	60%	— — —
Storage Temperature	0	— — —	85	℃
Operating Temperature	0	— — —	60	℃

3. Testing

Test Items		
Project	Technical Standards (Specifications)	Examination Methods and Instruments
Appearance	There are no flash or burrs at the inlet and outlet ports;The surface of the plastic parts is clean and free of defects such as impurities, shrinkage holes, flash, cracks, and warping; The surface of metal parts should be evenly plated and free of rust; all components should fit together properly and be secure, with clear and durable markings.	Visual Inspection
Dimensions	Measure the key dimensions of the sample using a caliper; see the attached figure.	Vernier Caliper
Insulation Withstand Voltage	Sterilizer output terminal: Apply 500 V AC (50 Hz) between the conductive part and the non-conductive metal part for 1 minute; there should be no damage or breakdown.	Dielectric Withstand Tester
Bacteria Elimination Rate	E. coli is tested and evaluated in accordance with the Technical Specifications for Disinfection (2002) and GB/T 5750-1-2023 Standard Test Methods for Drinking Water.	Microbial Testing Equipment
Hydrostatic Pressure Test	When subjected to a hydrostatic pressure of 1.1 MPa with the outlet sealed, the product showed no leakage, deformation, or damage over a period of 15 minutes;	Water Hammer Tester
Blast Pressure Test	The burst pressure for the burst test is 2.5 MPa; the unit must function normally after the test.	Water Hammer Tester

4.Safety Guidelines

- This product is electrostatic-sensitive. Please take precautions against static electricity during installation and use, ensure that the work surface is properly grounded, and reseal the packaging immediately after opening it;
- We recommend wearing gloves or finger cots when handling this product;
- Please use this product within the voltage and current ranges specified in this datasheet; otherwise, it may result in permanent damage to the product;
- Please install and use this product in a relatively cool environment, away from heat sources;
- Before installation, please ensure that the device is installed in a stable environment and avoid vibrations, shaking, and compression as much as possible;
- Each type of microorganism requires a specific dose of UV radiation for sterilization. The radiation intensity of the UV sterilization products manufactured and sold by our company is designed in strict accordance with national standards and can eliminate 99.99% of bacteria and viruses in water. However, the sterilization effect may be reduced if the water to be sterilized is turbid, has high water hardness, or contains high levels of calcium and magnesium. Therefore, we recommend installing a filtration device at the inlet of this product to minimize the impact of water quality on disinfection effectiveness;
- Ultraviolet rays can also be harmful to the human body. For safety reasons, this product is designed with all components enclosed within a sealed housing; under no circumstances should you attempt to disassemble the product yourself.

5.Referenced Standards

- GB/T 191 Pictorial Symbols for Packaging, Storage, and Transportation (GB/191-2008, ISO 780:1997, MOD);
- GB/T 1019 General Rules for the Packaging of Household and Similar Electrical Appliances;
- GB/T 2423.17 Environmental Testing of Electrical and Electronic Products—Part 2: Test Methods—Salt Spray;
- GB/4706.1 Safety of Household and Similar Electrical Appliances—Part 1: General Requirements;
- GB/5749 Hygiene Standards for Drinking Water;
- QB/4827 Ultraviolet Disinfection Units for Drinking Water Treatment Systems for Household and Similar Uses;
- GB/T 2828.1 Technical Sampling Procedures—Part 1: Sampling Plans for Lot-by-Lot Inspection Based on Acceptance Quality Limits (AQL)