MASSPHOTON LIMITED

UVC LED Water Disinfection Module

DESCRIPTION

- Product designed for flowing water disinfection applications.
- Mercury-free UVC LEDs (270-280nm wavelength).
- Disinfection rate up to 99.999% or 5.0 log. (Actual performance subject to water quality)
- Anodized aluminum casing for aesthetics and performance.
- Materials in compliance with RoHS and REACH requirements.



Efficient Disinfection | Food Grade Material | Chemical Free | Mercury-Free | Easy Installation | Long Life | Low Power Consumption

APPLICATIONS


Water Dispenser


Water Purifier


Bathroom


Washing Machine


Dishwashing


Laboratory/ Medical Purified Water


Motorhome/ Yacht

PARAMETERS

1	Model	MP-UVC-2L	MP-UVC-4L	MP-UVC-9L
2	Maximum Flow Rate	2 L/min	4 L/min	9 L/min
3	Rated voltage	DC 12~24 V	DC 12~24 V	DC 12~24 V
4	Input Current	1~3 A	1~3 A	1~3 A
5	Connector Type	XH2.54 2P	XH2.54 2P	XH2.54 2P
6	Wire Connection	The red wire connects to the positive pole and the black wire connects to negative pole		
7	Rated Total Power	4 W	6 W	16 W
8	Water Pipe Fitting	1 /4"	1/4"	3/8"
9	UVC Radiation Flux	90 mW	180 mW	330 mW
10	Product size	Φ25 mm * 130 mm	Φ25 mm * 130 mm	Φ25 mm * 130 mm
11	UVC LED Emission Wavelength	270 nm~ 280 nm	270 nm~ 280 nm	270 nm~ 280 nm
12	LED Lifespan	10000-25000 hours	10000-25000 hours	10000-25000 hours
13	Water Proof Rating	IPX68	IPX68	IPX68
14	Operation Temperature	4 ℃~60 ℃	4 ℃~60 ℃	4 ℃~60 ℃
15	Rated Inlet Water Pressure	0.3 MPa	0.3 MPa	0.3 MPa
16	Maximum Inlet Water Pressure	0.7 MPa	0.7 MPa	0.7 MPa
17	Exterior Material	Aluminum	Aluminum	Aluminum
18	Disinfection Efficacy	(*) Up to 99.999% or 5.0 Log	(*) Up to 99.999% or 5.0 Log	(*) Up to 99.999% or 5.0 Log

(*) The actual sterilization efficiency subjects to the water quality.
The above test results are based on the following test conditions with test strain of Escherichia coli (8099), with 5 × 10^4 to 5 × 10^5 CFU/mL dechlorinated sterile test water

pH	7.5+0.5	Turbidity	< 1.0 NTU	TDS	200 to 500 mg/L
UV transmittance	98+2%	Temperature	20+2.5°C(68±5 °F)		