UVWORKS®

UV-C LED Water Sterilization

- Inline Water Sterilizers
- Water Tank Sterilizers
- Industrial Water Sterilizers
- Consumer UV-C LED Water Purifiers



Qingdao Yingguang Innovation Technology Co., Ltd.

UVWORKS: Redefining Disinfection through Advanced UV-C LED Innovation. UVWORKS designs and manufactures highly efficient and high-performance UV LEDs for disinfecting water, air, and surfaces in safety-critical applications. UVWORKS was incorporated in 2019 in upstate Qingdao city to develop and commercialize UV disinfection products.

By integrating cutting-edge UV dose monitoring technology, we collaborate with residential, commercial, and industrial leaders across water, air, and surface markets to provide mercury-free disinfection solutions worldwide.At UVWORKS, we don't just provide products—we deliver the science of a healthier life.



Factory Park



Die bonder | LED Sorting Machine | LED Taping Machine



SMT | Leakproofness Test | Photoelectric performance test



Static pressure, circulation, blasting test | Spectral analyzer | Microbial Experiment

Production Capacity

Certificate of Qualification





Intellectual Property 50+



Test Report



We hold High-Tech Enterprise status and ISO 9001 certification. Our UV LED disinfection products meet international standards including CE, RoHS, UL, and EPA, with third-party validation from CQC, SGS, and other accredited labs.

Backed by over 50 national patents, our inline-flow UV LED sterilizer is the first of its kind in Shandong Province to obtain the Water Sanitation License, with additional products currently in the approval process.

CE RoHS UL EPA ISO CNAS MA IAC-MRA

Company History

Future...

2026

- February -Mass production of CW256 pipeline water sterilizers
- March -Mass production of CW258 pipeline water sterilizers

2025

- March – R&D completed for F368 and F368M pipeline water sterilizers
- May – Mass production of F228 series pipeline water sterilizers
- August – Mass production of CW251 pipeline water sterilizers
- September – Mass production of CW251-D pipeline water sterilizers
- November – Mass production of F118MS-S pipeline water sterilizers

2024

- February -Mass production of F104 Spout serilizers
- October - Mass production of F118-A, F228 pipeline water sterilizers
- October – YG-F118 UV sterilizer obtained the sanitation license for drinking water-related products.
- December - Mass production of L306 sterilization faucet
- December - Mass production of F502 industrial sterilizer

2023

- April - Mass production of F218 pipeline water sterilizers
- April - Mass production of F118MS、F118MP、F118FP pipeline water sterilizers
- September - Qingdao Yingguang won the "2023 UV LED Annual Influence Product TOP20 Awards"
- December - Bronze Award of China · Shandong Postdoctoral Innovation and Entrepreneurship Competition

2022

- March -Mass production of F108 pipeline water sterilizers
- June - Flowing UV LED sterilizer became the first similar product in Shandong Province to obtain approval for water sanitation
- December - Qingdao Yingguang won the top ten UV LED module revenue
- December - Passed the high-tech enterprise certification

2021

- April - Won the Jiangsu Water Purification Industry Association < Technological Innovation Award >
- June - Mass production of F102 pipeline water sterilizers
- June - Mass production of F106 Spout serilizers

2020

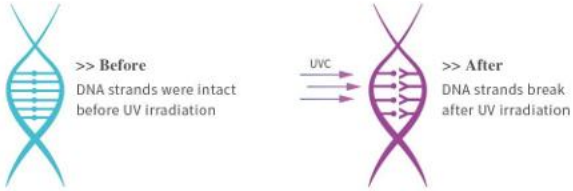
- October - Participated in the preparation of the "GUV LED sterilization device Technical Specification" group standard

2019

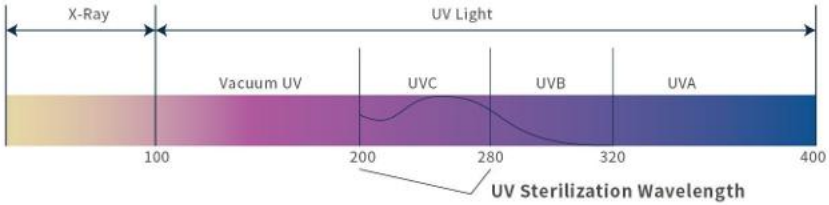
- March - The development of portable sterilizer module was completed
- November - Team integration registered Qingdao Yingguang Innovation Technology Co., LTD
- December - Mass production of S209, S101, S205, S207 water tank sterilizer
- December - Mass production of public transport sterilization project

Introduction of UV Sterilization

UV Sterilization Schematic



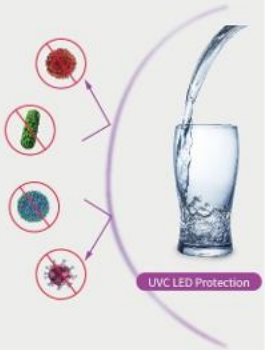
Spectral Curve



The deep UV LED technology adopts a deep UV light emitting diode with the wavelength of 200nm - 280nm. The deep UV light emitted by it can penetrate the cell walls of virus shells, fungi, spores and other microorganisms, destroy the base pairs of DNA or RNA, destroy the nucleic acid replication ability or protein structure, so as to achieve rapid sterilization.

Characteristics and Advantages of UV LED

- **Size:**Only 1% of the mercury lamp light source, easy to hide the design, expand the product application
- **Wavelength:**Single-peak energy transmission is concentrated in the effective band,Spectral applications without filter plates
- **Light Intensity:**Extremely high surface output brightness, unit area is one hundred to one thousand times the unit output of mercury lamp in effective band
- **Exposure:**The light Angle is between 7-180° and can be customized
- **Circuit:**No need for high voltage ballasts, reducing circuit size and cost
- **Switch:**Instant startup, brightness can be adjusted,Improve the actual service life
- **Use:**Suitable for a variety of working environment, can work in low temperature
- **Operation:**The output wavelength can be customized according to the needs of different application fields
- **Environmental protection:**The manufacturing process and waste after use are mercury-free and non-toxic



YG-F118MS Inline Water Sterilizer

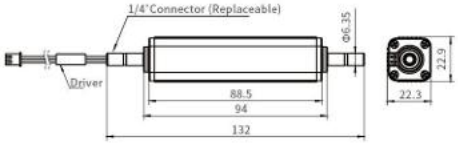


▶ Connector Optional (Metal material):



1/4"Connector 3/8"Connector

▶ Product Size



1/4" Quick-Connect Dimension Drawing

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	2~4W/4~8W	3LPM/5LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

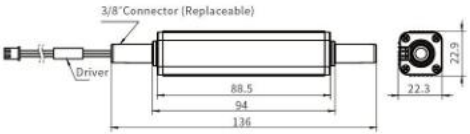
YG-F118MP Inline Water Sterilizer



▶ Connector Optional:

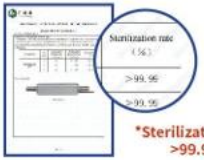
1/4"Connector 3/8"Connector

▶ Product Size



3/8" Quick-Connect Dimension Drawing

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	2~4W/4~8W	3LPM/5LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

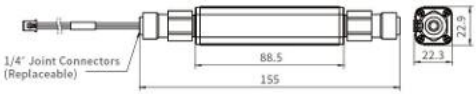
YG-F118FP Inline Water Sterilizer



▶ Connector Optional:



▶ Product Size



1/4" Joint Connectors Dimension Drawing

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	2~4W/4~8W	3LPM/5LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

YG-F218 Inline Water Sterilizer



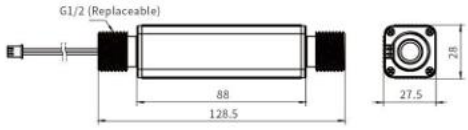
Zero Water Resistance

Good Heat Dissipation

▶ Connector Optional (Metal material):

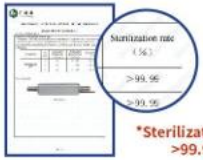


▶ Product Size



G1/2 inch male thread Connect Dimension Drawing

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	4~8W	5~8LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

YG-F118D Inline Water Sterilizer

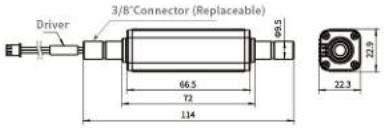


▶ Connector Optional (Metal material):



1/4"Connector 3/8"Connector

▶ Product Size



3/8" Quick-Connect Dimension Drawing

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	2~4W/4~8W	3LPM/5LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

YG-F118-L Inline Water Sterilizer



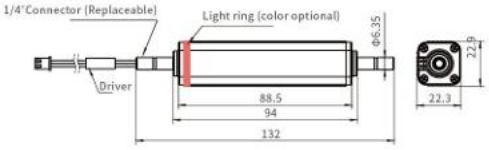
The color of the light ring can be customized

▶ Connector Optional (Metal material):



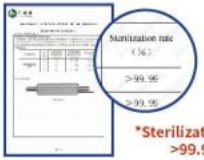
1/4"Connector 3/8"Connector

▶ Product Size



1/4" Quick-Connect Dimension Drawing

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	2~4W/4~8W	3LPM/5LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

YG-F108
Inline Water Sterilizer



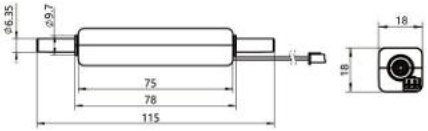
1/4"Connector

▶ Sterilization Report



*Sterilization Rate >99.99%

▶ Product Size



YG-F108A
Inline Water Sterilizer



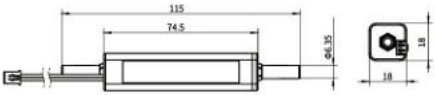
1/4"Connector

▶ Sterilization Report



*Sterilization Rate >99.99%

▶ Product Size



Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12/24V	1.2~2W	1LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12/24V; custom voltages are available.

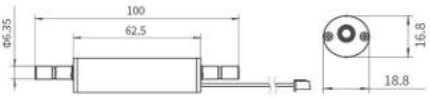
YG-F118A Inline Water Sterilizer



1/4"Connector

Metal material

▶ Product Size



▶ Sterilization Report



*Sterilization Rate >99.99%

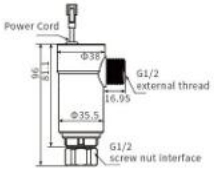
Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	1.5~3W	1LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

YG-F102 Inline Water Sterilizer



▶ Product Size



G1/2 Screw nut interface
Dimension Drawing

▶ Connector Optional:

IN

1/4″ quick connector　　3/8″ quick connector

OUT



1/4″Connector　　G1/2 Screw nut interface　　1/4″ quick connector　　3/8″ quick connector

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~36V	5~8W	4~6LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~36V; custom voltages are available.

YG-F106 Spout Sterilizer



The Light color can be customized

▶ Product Size



Hole size

▶ Sterilization Report



*Sterilization Rate >99.99%

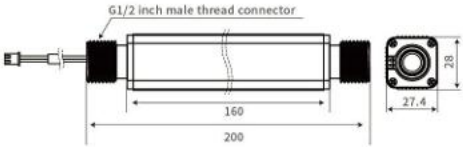
Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12/24V	5~8W	2.5LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12/24V; custom voltages are available.

YG-F228 Inline Water Sterilizer



▶ Product Size



G1/2 inch male thread Connect Dimension Drawing

▶ Connector Optional(Metal material):



1/4'Connector Pagoda joint G1/2 inch male thread connector

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12/24V	8~20W	8~15LPM	>3000h	>99.99%

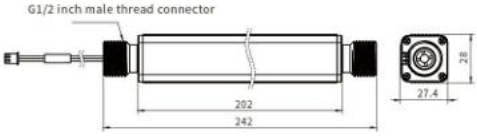
* Note: The standard operating voltage is DC 12/24V; custom voltages are available.

YG-F228-IS Inline Water Sterilizer



Built-in flow switch

▶ Product Size



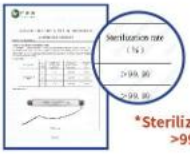
G1/2 inch male thread Connect Dimension Drawing

▶ Connector Optional(Metal material):



1/4'Connector Pagoda joint G1/2 inch male thread connector

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12/24V	8~20W	8~15LPM	>3000h	>99.99%

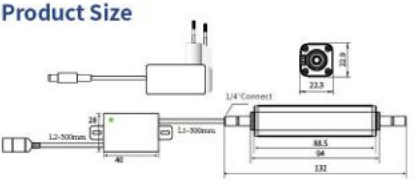
* Note: The standard operating voltage is DC 12/24V; custom voltages are available.

YG-F118MS-S Consumer UV-C LED Water Purifier



Built-in flow switch | Sterilizer triggered by water flow detection

▶ Product Size



1/4" Quick-Connect Dimension Drawing

▶ Connector Optional:
(Metal material)



1/4"Connector 3/8"Connector

▶ Adapter connector:



1/4" to 1/4" 1/4" to 3/8"

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	2~4W	3LPM	>3000h	>99.99%

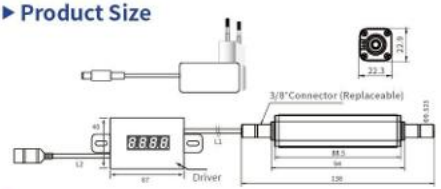
* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

YG-F118MS-SS Consumer UV-C LED Water Purifier



Built-in flow switch | Sterilizer triggered by water flow detection

▶ Product Size



3/8" Quick-Connect Dimension Drawing

▶ Connector Optional:
(Metal material)



1/4"Connector 3/8"Connector

▶ Adapter connector:



1/4" to 1/4" 1/4" to 3/8"

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	2~4W	3LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

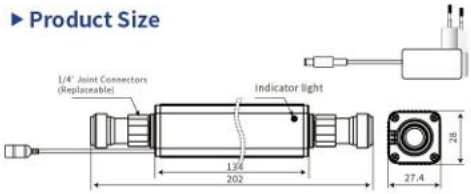
YG-CW255 Consumer UV-C LED Water Purifier



Built-in flow switch

Sterilizer triggered by water flow detection

▶ Product Size



1/4" Joint Connector Dimension Drawing

▶ Connector Optional:



1/4" Joint Connector

3/8" Joint Connector

▶ Sterilization Report



*Sterilization Rate >99.99%

Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
AC100~240V	4~8W	5~8LPM	>3000h	>99.99%

* Note: The standard operating voltage is AC 100~240V; custom voltages are available.

Consumer UV-C LED Water Purifier

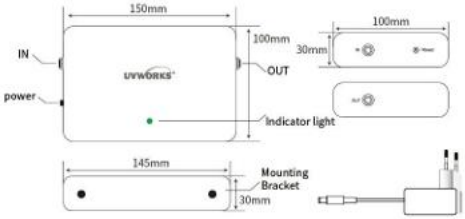


YG-CW251 YG-CW251-D

Built-in flow switch

1/4 " inch straight connector

▶ Product Size



▶ Product Characteristics

- Material Safety
- Simple to use, easy to install
- Eco-friendly solution
- Mercury-free, environmentally friendly

▶ Sterilization Report



*Sterilization Rate >99.99%

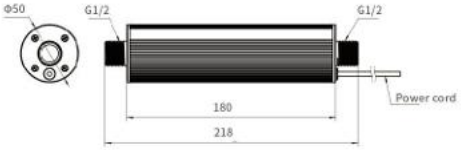
Operating Voltage	Power	Flowrate	Warranty	Sterilization Rate
AC100~240V	2~4W	3LPM	1 Year	>99.99%

* Note: The standard operating voltage is AC 100~240V; custom voltages are available.

YG-F302 Inline Water Sterilizer



▶ Product Size



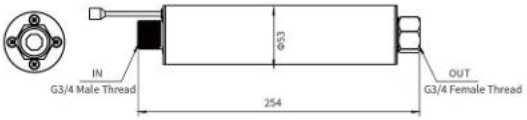
Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
DC12~24V	20~30W	15~20LPM	>3000h	>99.99%

* Note: The standard operating voltage is DC 12~24V; custom voltages are available.

YG-CW256 Consumer UV-C LED Water Purifier



▶ Product Size



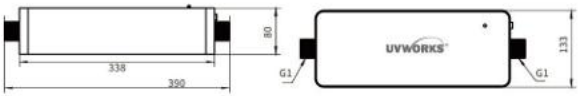
Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
AC100~240V	18~28W/38~48W	20LPM/30LPM	>3000h	>99.99%

* Note: The standard operating voltage is AC 100~240V; custom voltages are available.

YG-CW258 Consumer UV-C LED Water Purifier



▶ Product Size



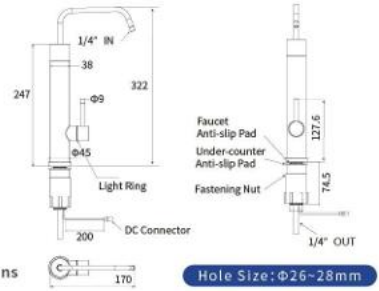
Operating Voltage	Power	Flowrate	Lifespan	Sterilization Rate
AC100~240V	40~50W	50LPM	>3000h	>99.99%

* Note: The standard operating voltage is AC 100~240V; custom voltages are available.

YG-L306 Sterilization Faucet



▸ Product Size



Hole Size:Φ26~28mm

▸ Installation method



▸ Product Characteristics

- Advanced echnology
- Mercury-free
- Environmentally friendly solutions
- Easy to use and easy to install

Operating Voltage	Power	Flowrate	Display	Material	Warranty	Sterilization Rate
AC100~240V	4~8W	5LPM	UV Disinfection Indicator	304 Stainless Steel	1 Year	>99.99%

* Note: The standard operating voltage is AC 100~240V; custom voltages are available.

YG-F502 Industrial Water Sterilizer

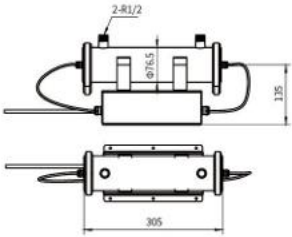


Water capacity

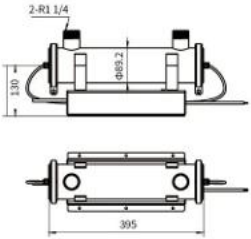
2	5	10	
2T/H	5T/H	10T/H	Customizable

▸ Product advantage

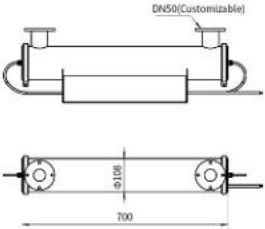
- High Bactericidal Rate
- Deep UV LED Light Source Module
- Contact Water Flow Food Grade Material
- Long Lifespan
- No Mercury No Pollution
- High Stability High Reliability



2T/H



5T/H



10T/H

UVWORKS®

UV-C LED Water Sterilization

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