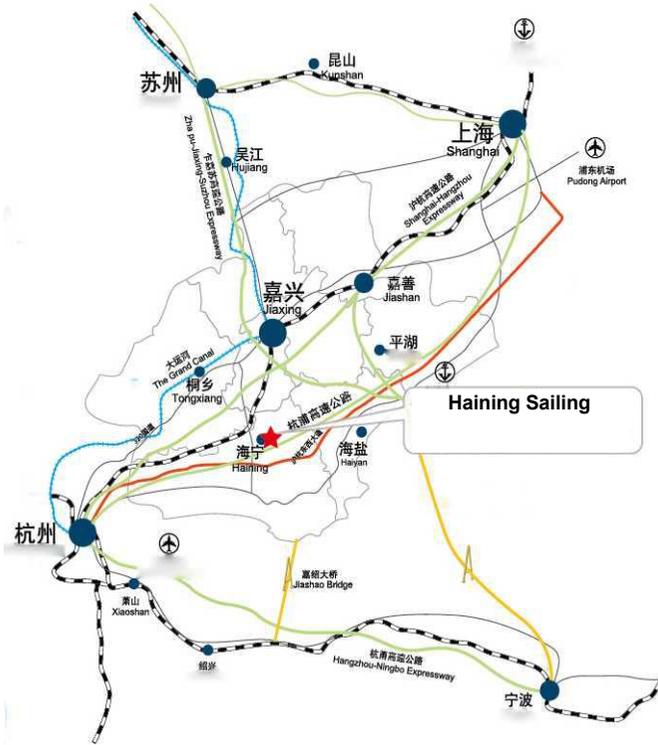




SAILING



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Professional High Quality UV Lamp Manufacturer

Committed To Providing Quality UV-C Germicidal Lamp



Haining Sailing Electrical Appliance Co., Ltd

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Explanation of the model name in this Catalog

G	=Germicidal
PH	=Preheat
HO	=High Output
U	=U-shape Lamp
PHA	=Preheat Spot Amalgam
PHVA	=Preheat Pellet Amalgam
PHHA	=Preheat HO Spot Amalgam
PHHVA	=Preheat HO Pellet Amalgam
T	=Tubular
L	=Low Ozone (Ozone free)
VH	=Ozone(Very High Ozone Generating)

Lamp Tube Outer Diameter (OD)

T5	=15mm OD (0.6in)
T6	=19mm OD (0.75in)
T8	=25mm OD (1.0in)
T10	=32mm OD (1.25in)
T12	=38mm OD (1.5in)

Lamp Base Type & Connecting Structure

4P	=4 pins Circline base, single ended
MDBP	=Medium Bi-pin (G13, 12.7mm)
MNBP	=Miniature Bi-pin (G5, 5mm)
SL/SP	=Slimline/Single Pin
SE	=Single Ended
DE	=Double ended

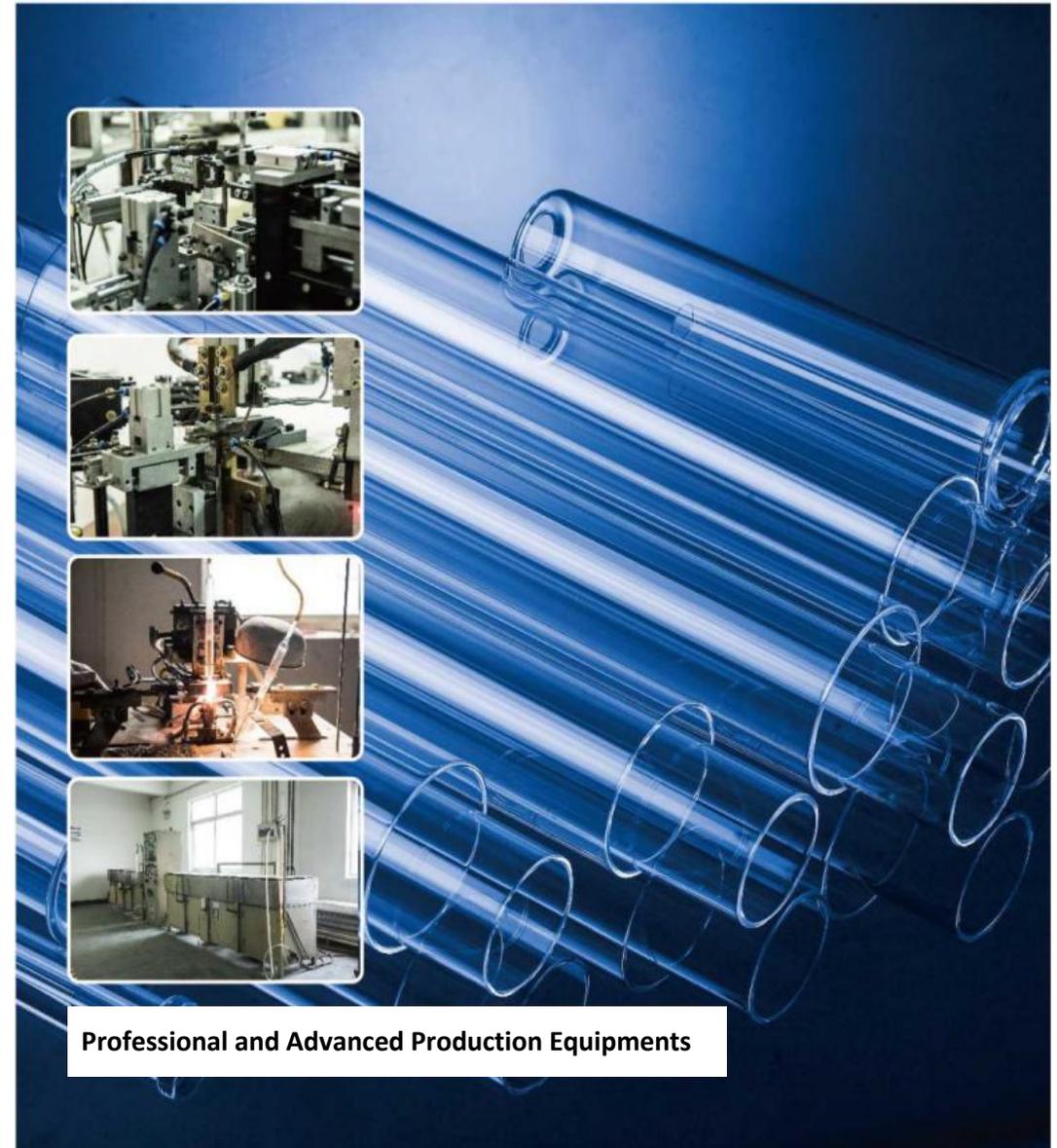


About Us

Sailing factory is a professional manufacturer specializing in the production of different ultraviolet lamps(UV lamps), including hot cathode UV germicidal lamp and cold cathode UV germicidal lamps which are used in application of air disinfection or water treatment. These UV lamps are widely equipped in heating ventilation air conditioning(HVAC) system, refrigerator, air purifier, water treatment equipment system, toothbrush sterilizer, water dispenser, and other environmental protection equipment or home appliances. **Sailing** group with their professional knowledge and skills to design and produce the unique high quality UV lamps according to different requirement from customers, to answer all the questions about the products from customers in time, both pre-sale service and after-sale service is guaranteed.

All UV lamps from our factory meet the standard of CE, RoHS, UL. Till now our products have been exported to more than 30 countries all over the world, such as America, Canada, Mexico, Brazil, UK, Russia, Denmark, Germany, South Korea etc, good reputation from customers because of our superior quality and good service.

We are keeping do the best and expecting to cooperate with all importers, traders, wholesalers and retails over the world. Visit and guidance of old customers and new customers is welcomed.



Professional and Advanced Production Equipments

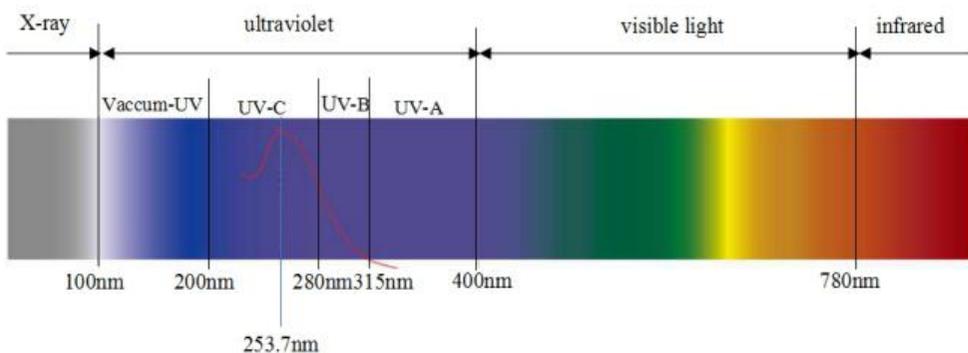
Application of UV Light

Visible light ranges from 400 nanometers to 780 nanometers. Ultraviolet has a shorter wavelength than visible light, between 100 and 400nm. Ultraviolet rays are divided into three regions: UVA: 315nm-400nm, UVB: 280nm-315nm, and UVC: 100nm-280nm.

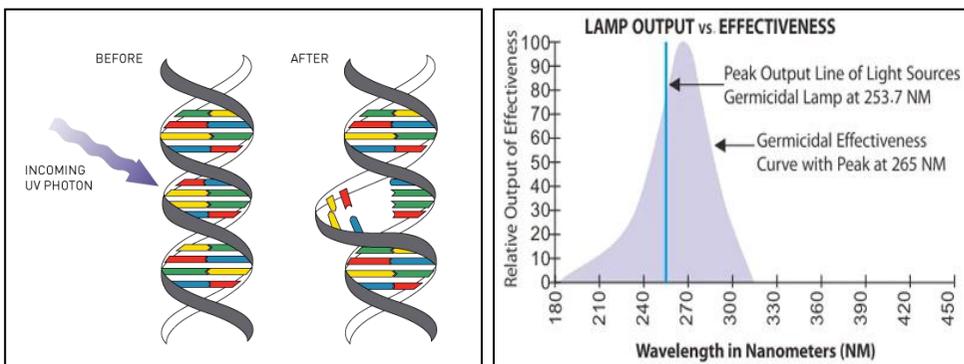
UVC can destroy the nucleic acid(DNA or RNA) structure of bacteria, viruses and all kinds of microorganisms, and can make it unable to reproduce. Ultraviolet line sterilization is a pure physical way of disinfection, no additional residue of other substances. Compared with the chemical reagent disinfection way, it is more environmental and safety. Ultraviolet rays have bactericidal effect on majority of viruses and bacteria, so it is widely used in the field of air disinfection and water treatment.

Sailing UVC lamps are made of high quality quartz glass to ensure the max UV intensity.

The Electromagnetic Spectrum



When exposing microorganisms to UV-C, the light penetrates through their cell wall and disrupts the structure of DNA molecules, prohibiting reproduction.



Benefits from UV

- * Environmentally friendly, safe and reliable;
- * Without chemical reagent, no by-product;
- * High efficiency and cost effective;
- * Easy installation and maintenance.
- * Low installation and maintenance cost
- * Not change the taste, odour, PH, electrical conductivity or other chemical properties of water or air.

* UV-C rays can kill microorganism including bacteria, virus, fungi and protozoa, such as Cryptosporidia, Giardia, SARS, H5N1 and so on within very short time (see below chart).

Species	Name	Time for 100% killing (s)	Name	Time for 100% killing (s)
Bacteria	Anthraxes	0.30	Tuberculosis	0.41
	Diphtheria	0.25	Vibrio Cholera	0.64
	Clostridium Botulism	0.80	Pseudo monas Bacteria	0.37
	Tenanus	0.33	Salmonella	0.51
	Dysentery Bacillus	0.15	Fever bacteria	0.41
	Colibacillus	0.36	Bacillus Typhi murium	0.53
	Hook-side Plyon Bacillus	0.20	Shigella	0.28
	Legion Ella	0.20	Staphylococcus	1.23
	Micro co	0.4-1.53	Streptococcus	0.45
	Virus	Adenovirus	0.10	Influenza virus
Phagocyte Cell Virus		0.20	Polio virus	0.80
Coxsackie virus		0.08	Rota virus	0.52
ECHO virus		0.73	Tobacco mosaic virus	16.00
ECHO virus 1		0.75	Hepatitis virus	0.43
Mold Spores	Aspergillums niger	6.67	Soft spores	0.33
	Aspergillums	0.73 – 8.80	Penicillium	0.87-2.93
	Dung Fungi	8.00	Penicillium chrysogenum	2.0-2.33
	Mucor	0.23 – 4.67	Oher fungi penicillium	0.87
Water Algae	Blue-green algae	10-40	Paramecium	7.30
	Chorella	0.93	Green Algae	1.22
	Line ovum	3.40	Protozoan	4-6.7
Fish Disease	Fung 1 disease	1.60	Infectious pancreatic necrosis	4.00
	Leukoderma	2.67	Hemorrhagic	1.60

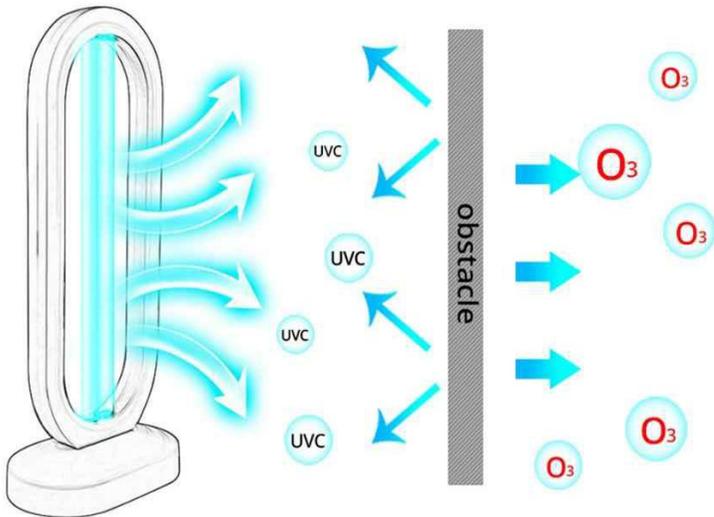
* Disinfection time @ 30,000 μW/cm or 30mJ/cm²

About Sailing UV Lamp

Sailing ULTRAVIOLET (UV) lamp is made of high purity quartz sand produced by automatic control and melting equipment .The quartz glass is high purity, good thermal stability, high transmittance (UVT), low (vacuum dehydroxyl) hydroxyl content (OH) . There are two types quartz glass: non-ozone quartz glass and high ozone quartz glass. Non-ozone quartz glass produces only 254nm, and 185nm is blocked. High ozone quartz glass can produce both 185nm and 254nm .

* Non-ozone UV lamps is made of non-ozone quartz glass. About 95% ultraviolet of the lamp is 254nm UV. This wavelength UV can kill the bacteria, virus or mold spores directly .

* High Ozone UV lamp is made of high ozone quartz glass. It can produce both 254nm and 185nm. The ultraviolet ray of 185nm can not kill bacteria or viruses directly, however, it produces a large amount of ozone (O_3) from oxygen(O_2) in air. Ozone as a strong oxidizer and deoxidizer can quickly and effectively break cell wall of microbial, so that immediately kill microorganism to reach the purpose of sterilization, deodorization, odor removal etc. Moreover, ozone can reach the areas where the UV-C can't reach.



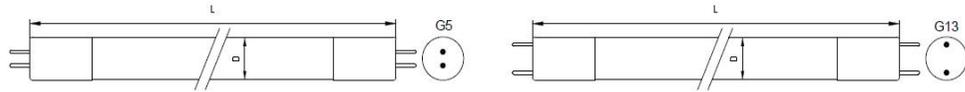
Sailing standard output UV germicidal lamps series:

- *Double-end 2pins UV lamp (Preheating) - T5 tube series
- *Single end 4pins UV lamp (Preheating) - T5 tube series
- *Double-end 1pin UV lamp (Instant start) - T5 tube series
- *Double-end 2pins UV lamp (Preheating) - T6 tube series
- *Double-end 2pins UV lamp (Preheating) - T8 tube series

The preheating UV lamp is connected to a preheating starting circuit. This kind of preheating type circuit needs to connect four pins of lamp. When the lamp starting, there will be some preheating time from several seconds to dozen seconds usually. Now some preheating lamp also can become instant start lamp by changing the circuit and with the assistance of suitable electronic ballasts. These preheating UV lamps are widely used in water treatment system, air purification system and surface sterilization of objects.

Instant start UV lamp starting mode is instant .The lamp filament of both ends is heated instantly and discharge. The lamp life is determined by the lamp electrode, and affected by the start frequency. These instant start lamps are widely used in air purification system and piping systems (such as HVAC).

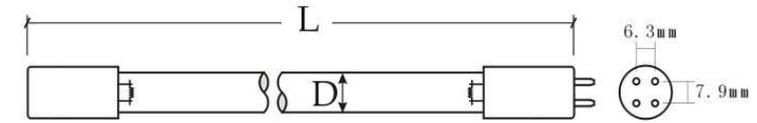
Double-end 2 pins UV Lamp Series



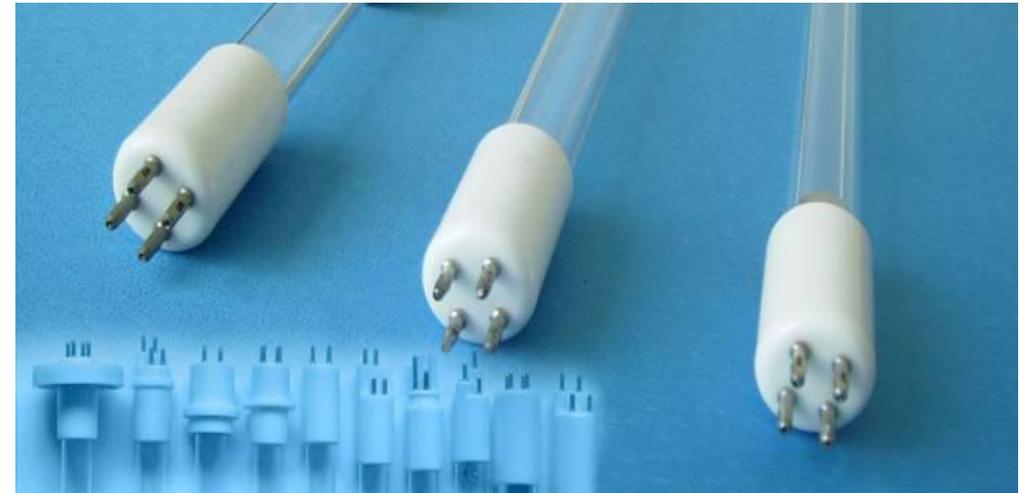
Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Intensity (@1m, $\mu\text{W}/\text{cm}^2$)
	D	L				
G4T5	15	135	4	170	29	9
G6T5	15	212	6	160	42	15
G8T5	15	288	8	150	56	21
G11T5	15	212	11	410	33	26
G16T5	15	288	16	390	49	35
G10T8	25	331	10	230	45	23
G15T8	25	437	15	340	50	42
G20T8	25	589	20	370	57	45
G25T8	25	437	25	610	46	62
G30T8	25	894	30	370	100	100
G40T8	25	1199	40	425	100	116
G55T8	25	894	55	770	86	146
G75T8	25	1199	75	840	110	197



Single-end 4 pins UV Lamp Series



Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
GPH135T5L/4P	15	135	4	425	28	16	1.5
GPH212T5L/4P	15	212	10	425	30	22	2
GPH287T5L/4P	15	287	14	425	41	40	4
GPH303T5L/4P	15	303	15	425	43	42	4.1
GPH330T5L/4P	15	330	17	425	44	45	4.5
GPH357T5L/4P	15	357	18	425	51	54	5.7
GPH436T5L/4P	15	436	21	425	66	72	7.3
GPH550T5L/4P	15	550	28	425	68	85	8.5
GPH793T5L/4P	15	793	38	425	112	120	13
GPH843T5L/4P	15	843	41	425	120	150	15
GPH1148T5L/4P	15	1148	55	425	165	180	22
GPH1554T5L/4P	15	1554	75	425	220	240	33
GPH1630T5L/4P	15	1630	79	425	231	250	34.5



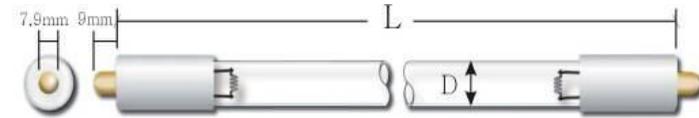
High Ozone UV Lamp Series



Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
GPH135T5VH/4P	15	135	4	425	28	16	1.5
GPH212T5VH/4P	15	212	10	425	30	22	2
GPH287T5VH/4P	15	287	14	425	41	40	4
GPH303T5VH/4P	15	303	15	425	43	42	4.1
GPH330T5VH/4P	15	330	17	425	44	45	4.5
GPH357T5VH/4P	15	357	18	425	51	54	5.7
GPH436T5VH/4P	15	436	21	425	66	72	7.3
GPH550T5VH/4P	15	550	28	425	68	85	8.5
GPH793T5VH/4P	15	793	38	425	112	120	13
GPH843T5VH/4P	15	843	41	425	120	150	15
GPH1148T5VH/4P	15	1148	55	425	165	180	22
GPH1554T5VH/4P	15	1554	75	425	220	240	33
GPH1630T5VH/4P	15	1630	79	425	231	250	34.5



Instant Start UV Lamps



Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
G10T5L	15	357	17	425	51	54	5.7
G18T5L	15	386	18	425	60	59	6
G24T5L	15	538	24	425	72	82	8
G30T5L	15	691	30	425	105	95	9.8
G36T5L	15	843	40	425	120	130	13
G37T5L	15	868	42	425	122	133	13.5
G48T5L	15	1148	55	425	165	170	18
G64T5L	15	1554	75	425	220	225	24
G10T5VH	15	357	17	425	51	54	5.7
G18T5VH	15	386	18	425	60	59	6
G24T5VH	15	538	24	425	72	82	8
G30T5VH	15	691	30	425	105	95	9.8
G36T5VH	15	843	40	425	120	130	13
G37T5VH	15	868	42	425	122	133	13.5
G48T5VH	15	1148	55	425	165	170	18
G64T5VH	15	1554	75	425	220	225	24



High Output UV Lamp Series

These lamps are similar in size and shape as conventional germicidal lamps, but they are of operating at higher input power and current, and produce up to 2/3 more UV energy compared to standard output UV lamps.

These lamps are widely used in forced air duct system and water treatment. High Ozone generating lamps are often used odor control and photochemical application.

Sailing can produce customized models in length and configurations according to customers' specific requirement.



Non-ozone High Output UV Lamps

Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
GPH357T5L/HO	15	357	28	800	38	70	7
GPH436T5L/HO	15	436	48	800	60	120	13
GPH550T5L/HO	15	550	52	800	65	160	16
GPH610T5L/HO	15	610	58	800	73	170	17
GHO36T5L	15	843	87	800	110	260	28
GPH846T5L/HO	15	846	90	800	113	265	29
GHO48T5L	15	1148	120	800	150	325	35
GHO64T5L	15	1554	155	800	195	395	54

High Ozone High Output UV Lamps

Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
GPH357T5VH/HO	15	357	28	800	38	70	7
GPH436T5VH/HO	15	436	48	800	60	120	13
GPH550T5VH/HO	15	550	52	800	65	160	16
GPH610T5VH/HO	15	610	58	800	73	170	17
GHO36T5VH	15	843	87	800	110	260	28
GPH846T5VH/HO	15	846	90	800	113	265	29
GHO48T5VH	15	1148	120	800	150	325	35
GHO64T5VH	15	1554	155	800	195	395	54

* Sailing can make special lamp bases, which are suitable for the existing UV equipments & cost effective.

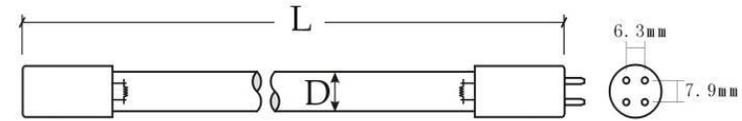


Amalgam UV Lamps

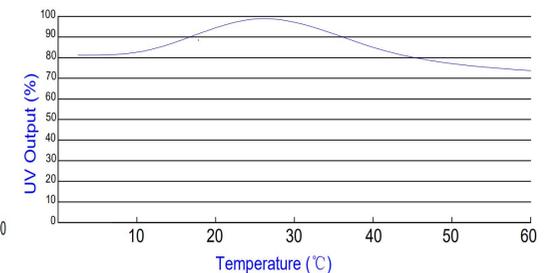
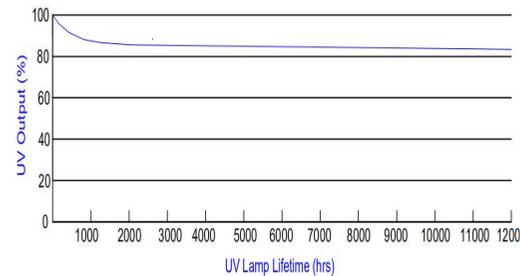
Sailing using high quality raw materials and advanced technology produces high quality low pressure amalgam UV lamps from 42W to 500W. Amalgam UV lamps can be used mounted horizontally or vertically. The special coating process enables these amalgam UV lamps to have a life of up to 16,000 hours and maintain a UV output of up to 85%.

Advantages of Amalgam UV Lamps :

- * Can work in wide range temperature (4-40C °) of air or water, and still maintain high and stable UV output .
- * High efficient: compared with standard UV lamps, it produces about 3 times of UV than standard UV lamps at the same length.
- * Long life: Special coatings are designed to ensure longer lifetime than ordinary UV Lamps.
- * Using less quantity lamp, reduce the installation and maintenance cost.

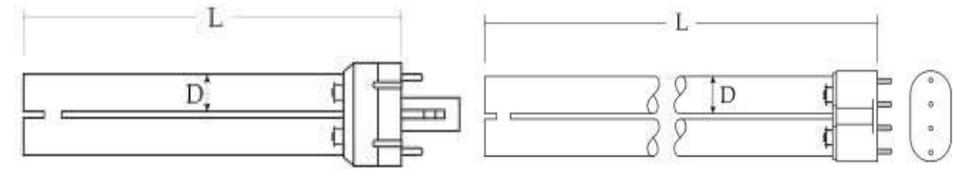


Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
GPHA357T5L	15	357	42	1.2	36	110	11
GPHVA357T5L	15	357	42	1.2	36	115	11
GPHA843T5L	15	843	105	1.2	88	320	35
GPHVA843T5L	15	843	105	1.2	88	320	35
GPHA1000T5L	15	1000	127	1.2	107	370	42
GPHVA1000T5L	15	1000	127	1.2	107	370	42
GPHA1554T5L	15	1554	190	1.2	164	500	68
GPHVA1554T5L	15	1554	190	1.2	164	500	68
GPHA357T6L	19	357	57	1.8	32	130	13
GPHVA357T6L	19	357	57	1.8	32	130	13
GPHA843T6L	19	843	127	1.8	71	400	43
GPHVA843T6L	19	843	127	1.8	71	400	43
GPHA1000T6L	19	1000	150	1.8	84	460	52
GPHVA1000T6L	19	1000	150	1.8	84	460	52
GPHA1554T6L	19	1554	240	1.8	134	600	84
GPHVA1554T6L	19	1554	240	1.8	134	600	84
GPHHA357T6L	19	357	65	2.1	31	140	14
GPHHA843T6L	19	843	172	2.1	82	490	54
GPHHA1000T6L	19	1000	207	2.1	99	570	65
GPHHA1554T6L	19	1554	320	2.1	154	750	112
GPHHA1554T10L	32	1554	471	5	95	1160	157



H-shaped UV Lamps

If the installation space is compact and limited, these H-shaped UV lamps will be a good choice. Both non-ozone type and high Ozone are available. They are used for air disinfection for hospital, kitchen HVAC system, and water sterilation for ponds and pools.

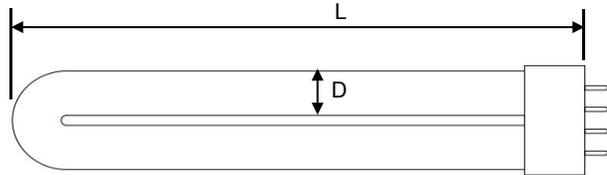


Lamp Model	Dimension (mm)		Wattage (W)	Lamp Current (mA)	Lamp Voltage (V)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
GPL-S5W	12	82	5	180	35	9	1
GPL-S7W	12	112	7	180	46	15	1.6
GPL-S9W	12	145	9	170	60	22	2.4
GPL-S11W	12	213	11	160	89	33	3.6
GPL-S13W	12	155	13	290	56	31	3.4
GPL-L18W	17.5	220	18	370	58	51	5.5
GPL-L24W	17.5	315	24	350	87	65	7.0
GPL-L35W/HO	17.5	220	35	850	55	105	11
GPL-L36W	17.5	410	36	425	106	110	12
GPL-L55W	17.5	535	55	530	105	156	17
GPL-L60W/HO	17.5	410	60	680	118	166	19
GPL-L95W/HO	17.5	535	95	800	115	230	27
GPL-L150W/HO	15	810	150	800	182	250	169



U-shaped UV Lamps

U-shaped UV lamp is also a compact lamp designed for the equipment with limited installation space. Both non-ozone type and high ozone type are available, and also can U-shaped amalgam lamp. They are used for air disinfection for hospital, kitchen HVAC system, and water sterilation for ponds and pools.



Lamp Model	Dimension (mm)		Wattage (W)	Lamp Voltage (V)	Lamp Current (mA)	UV Output (@1m)	
	D	L				($\mu\text{W}/\text{cm}^2$)	(W)
GU10W	15	186	17	42	425	57	5.7
GU18W	15	201	18	44	425	59	5.9
GU24W	15	287	25	60	425	82	8.2
GU30W	15	353	32	75	425	95	9.8
GU36W	15	429	41	98	425	130	14
GU55W	15	582	55	130	425	170	17.5

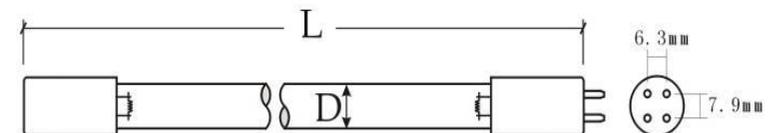


Submerged UV Lamps

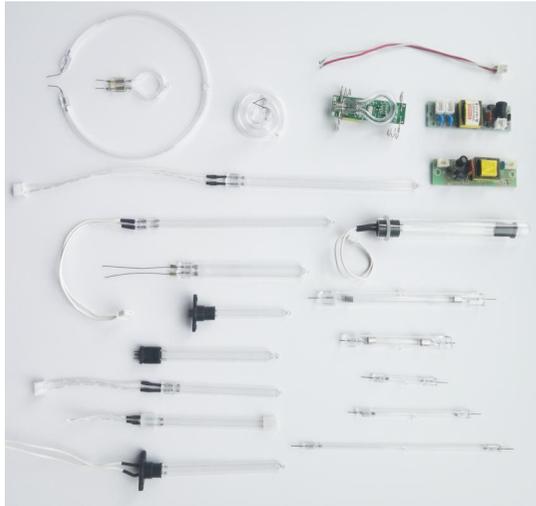
Sailing submerged UV lamps have half submerged type and full submerged type. There is quartz sleeves and sealing parts to protect the lamps from water, so they can be half submerged or full submerged in the water. They are designed for aquarium tanks.



Lamp Model	Dimension (mm)		Wattage (W)	Lamp Voltage (V)	Lamp Current (mA)	Base type	UV Output ($\mu\text{W}/\text{cm}^2$)
	D	L					
ZW6D15W-Z212	15	212	6	42	160	G10q	>5000
ZW8D15W-Z288	15	288	8	56	145	G10q	>6000
ZW10D15W-Z330	15	330	10	52	220	G10q	>7000
ZW15D15W-Z437	15	437	15	60	330	G10q	>7500
ZW20D15W-Z589	15	589	20	77	370	G10q	>8500
ZW36D15W-Z843	15	843	36	90	410	G10q	>12000
ZW40D15W-Z1200	15	1200	40	106	420	G10q	>12000
ZW65D15W-Z1554	15	1554	65	179	425	G10q	>12000
ZW80D15W-Z843	15	843	80	100	800	G10q	>12000
ZW100D15W-Z1554	15	1554	100	185	710	G10q	>13000
ZW150D15W-Z1554	15	1554	150	210	825	G10q	>13000



Cold Cathode UV Lamps Series



These cold cathode UV lamps (CCFL) are designed small structure, long lifetime and low power, and also can be with ozone (254nm&185nm) or without ozone (254nm). They are extensively used in toothbrush sterilizers and other portable UV disinfection kits because different shapes and types available. Wonhua makes many different cold cathode UV lamps according to customers' requirement, such as straight type, U-type, C type etc.

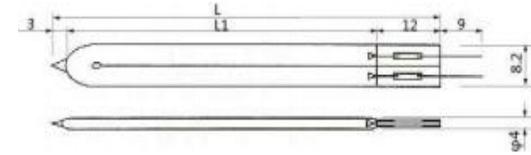
Straight type Cold Cathode UV Lamps

Outer Diameter (mm)	Length (mm)	Lamp Current (mA)	Lamp Voltage (V)	Lamp Power (W)	UV intensity on lamp surface (uw/cm ²)
4,5,6,8,9,12	45~60	4~5	150~250	0.6~1.2	>3000
	80~100	4~5	250*300	1.0~1.5	>3000
	120~180	4~5	300*400	152	>3000
	200~300	4~6	400*600	2.0*2.5	>3000
	300~400	4.5~6	600*800	253.5	>3000

* Can make different length lamps according to different requirement.



U-type Cold Cathode UV Lamps



Outer Diameter (mm)	Length (mm)	Lamp Current (mA)	Lamp Voltage (V)	Lamp Power (W)	UV intensity on lamp surface (uw/cm ²)
4,5,6	40~60	2~5	200~300	0.8~1.5	>8000
	80~100	2~5	300~450	1.5~2	>8000
	120~150	3~5	450~600	2.0~3.0	>8000
	200~250	4~6	600~850	3.0~4.0	>8000

* Can make different length lamps according to different requirement.



Application

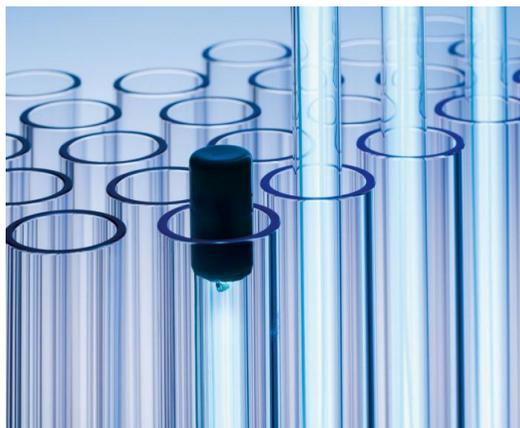


The lamp faces down and lights up
Design to protect your eyes

Quartz Sleeves

Outer Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Application type
19	17	1	15mm (T5) OD standard output/high output lamps without lamp base
20.5	18	1.25	15mm (T5) OD standard output/high output lamps with aluminum base
22	19	1.5	15mm (T5) OD standard output/high output lamps with aluminum base
23	20	1.5	15mm (T5) OD standard output/high output lamps/amalgam lamps
25	22	1.5	19mm (T6) OD standard output/high output lamps/amalgam lamps
28	25	1.5	19mm (T6) OD standard output/high output lamps/amalgam lamps
30	26	2	19mm (T6) OD standard output/high output lamps/amalgam lamps
30	26.5	1.75	19mm (T6) OD standard output/high output lamps/amalgam lamps
32	29	1.5	19mm (T6) OD standard output/high output lamps/amalgam lamps
36	32	2	25mm (T8) OD standard output/high output lamps/amalgam lamps
38	34	2	25mm (T8) OD standard output/high output lamps/amalgam lamps
38	35	1.5	25mm (T8) OD standard output/high output lamps/amalgam lamps
45	42	1.5	25mm (T10)&38mm(T12) OD standard output/high output/amalgam lamps
48	44	2	25mm (T10)&38mm(T12) OD standard output/high output/amalgam lamps
48	45	1.5	25mm (T10)&38mm(T12) OD standard output/high output/amalgam lamps
F40.0	36	2	PL-S5W-13W lamps
F40.0	37	1.5	PL-S5W-13W lamps
F44.0	40	2	PL-L18W-95W lamps

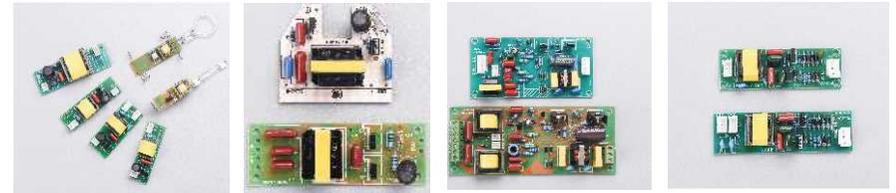
* Can make according to different requirement.



Electronic Ballast

Ballast is very important for UV lamps. The high quality and right model electronic ballast will ensure the UV lamps get the best working performance and guarantee the lamp max lifetime. ZhiJia supply kinds of suitable ballast for the different UV lamps.

Ballast for cold cathode UV lamps

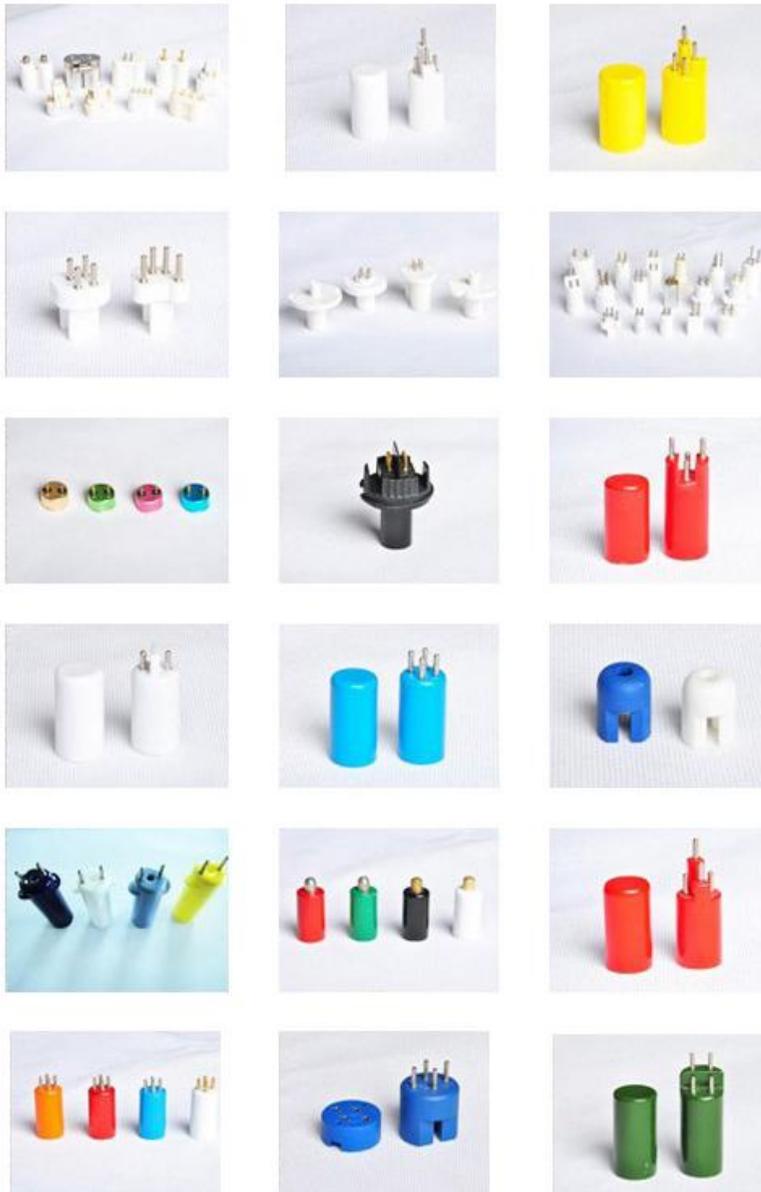


Ballast for hot cathode UV lamps



Specific Lamp Bases

Sailing provide replacement lamps with specific bases for customers, which are suitable for the existing UV equipments & cost effective.



Portable UV-C radiometer

It can be remote-controlled on App via WIFI/Blue tooth(Max 50m distance), auto-save testing data, and also can export the testing data as report to computer via USB.



Fittings for UV Lamps

Sailing supply all the necessary fittings for all of our UV lamps.



Portable UV lamp Kit

This portable UV lamp kit is equipped H-shaped UV lamp. They can be used in indoor rooms, offices, schools, hotels and hostiptals etc..

Features:

- * Ready to use design, easy operation.
- * With microwave sensor, lamp can turn off automatically when detect moving objects.
- * 3 different time choose: 15mins, 30mins, 60mins . It will turn off automatically when reach set time).
- * Delay starting mode: 40s delay start (enough time for human leave).

Applicable to a variety of places



Technical Parameters:

- * Lamp Power: 36W/55W
- * Input Voltage: 120V/230V
- * Color of fixture: White/Black
- * Material of body: ABS
- * Material of UV lamp: Quartz Glass
- * Application Area: 20~40 m²(36W)/30~60 m²(55W),
- * UV Style: UV style (254nm)/UV style+Ozone style (254nm+185nm)
- * Size: 46cm*21cm
- * Cable length: 150cm
- * Lifetime of UV lamp: 8,000 Hours

