

Tsong®



【AC/DC24V Input】

Specification For LED Underwater Lamps

PRODUCT NAME: LED Underwater Lamps

PART NO: SUW-3W SUW-6W SUW-9W
SUW-12W SUW-18W
SUW-24W SUW-36W

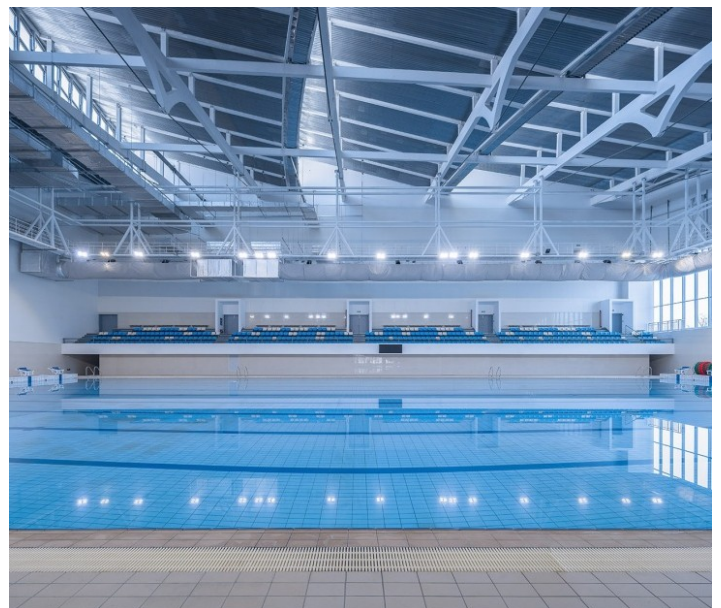


Description:

- ★ Low voltage: Low-voltage underwater lights are generally powered by AC/DC24V low voltage, which makes them safe and reliable.
- ★ Good waterproof performance: Low-voltage underwater lights are made of special materials and have excellent waterproof performance, allowing them to work underwater for along time.
- ★ High brightness: Low-voltage underwater lights use high-brightness LED light sources, providing bright lighting effects and making the underwater environment clearer.
- ★ Energy-saving and environmentally friendly: Low-voltage underwater lights use LED light sources, which can save energy and reduce energy consumption, making them environmentally friendly.
- ★ Long lifespan: Low-voltage underwater lights are made of high-quality materials that can withstand the corrosion and pressure of underwater environments, giving them along lifespan.
- ★ Easy to install: Low-voltage underwater lights are small in size and easy to install, making them easy to install on underwater facilities such as ships, docks, and ports.

Applications:

Suitable for large swimming pools, aquariums, parks, rockeries, high-grade villa pools, hot springs, fountains, exhibitions, light shows and other places.



Photo



36W



12W

24W



9W

18W



6W

3W

Tsong[®]

LinkLED



Photo

CAN BE ROTATED 180°
UP AND DOWN

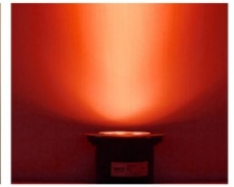


ROTATES 360° FROM
SIDE TO SIDE

Color temperature



White(6000K/4000K/3000K)



Red



Blue



Yellow



Green



RGB

Component detail



Dimensions(Unit:mm)



Model	Power	Product Size(D1*H)	Surface Size(D2)
SUW-3W	3W	Φ82*H140mm	Φ49mm
SUW-6W	6W	Φ120*H140mm	Φ76mm
SUW-9W	9W	Φ145*H180mm	Φ100mm
SUW-12W	12W	Φ160*H185mm	Φ113mm
SUW-18W	18W	Φ190*H220mm	Φ146mm
SUW-24W	24W	Φ210*H230mm	Φ165mm
SUW-36W	36W	Φ230*H240mm	Φ180mm

Electrical/Optical Characteristics/Specifications

MODEL:SUW-3W

Input Voltage	Max.Current	Operating Voltage	Constant Current		Power		Factor		
AC/DC24V	0.125A	DC18V	0.15A		3W ± 10 %		≥0.5		
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K	Wave length		
			Luminous efficiency	85LM/W	90LM/W	90LM/W	Red	Green	Blue
SMD2835	3 PCS	≥80Ra	Luminous flux	255LM ±10%	270LM ±10%	270LM ±10%	620-625nm	517-522nm	456-460nm
			Beam Angle	30° 【5° / 120° Optional 】					
Life Time	Certifications	IP Code	Luminaires Class		product dimension		N.W		
30.000Hours	CE,RoHS	IP68	Class III		Φ82*140mm		0.37Kg		
Operating Temperature	Storage Temperature	Lamp Body Material	Lamp Shade Material		Packing dimension		G.W		
-20 °Cto+50 °C	-30 °Cto+60 °C	304 Stainless Steel	304 Stainless Steel		L105*W105*H100mm		0.39Kg		
Outer carton package	50*1layer=50PCS/carton,K=K corrugated paper , L540*W225*H525mm,GW:18.7KG								

MODEL:SUW-6W

Input Voltage	Max.Current	Operating Voltage	Constant Current		Power		Factor		
AC/DC24V	0.25A	DC18V	0.3A		6W ± 10 %		≥0.5		
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K	Wave length		
			Luminous efficiency	85LM/W	90LM/W	90LM/W	Red	Green	Blue
SMD2835	6 PCS	≥80Ra	Luminous flux	510LM ±10 %	540LM ± 10 %	540LM ± 10 %	620-625nm	517-522nm	456-460nm
			Beam Angle	30° 【5° / 120° Optional】					
Life Time	Certifications	IP Code	Luminaires Class		product dimension		N.W		
30.000Hours	CE,RoHS	IP68	Class III		Φ120*140mm		0.62Kg		
Operating Temperature	Storage Temperature	Lamp Body Material	Lamp Shade Material		Packing dimension		G.W		
-20 °Cto+50 °C	-30 °Cto+60 °C	304 Stainless Steel	304 Stainless Steel		L155*W90*H130mm		0.65Kg		
Outer carton package	30*1layer=30PCS/carton,K=K corrugated paper , L470*W330*H410mm,GW:17.2KG								

Electrical/Optical Characteristics/Specifications

MODEL:SUW-9W

Input Voltage	Max.Current	Operating Voltage	Constant Current		Power		Factor		
AC/DC24V	0.375A	DC18V	0.45A		9W ± 10 %		≥0.5		
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K	Wave length		
			Luminous efficiency	85LM/W	90LM/W	90LM/W	Red	Green	Blue
SMD2835	9 PCS	≥80Ra	Luminous flux	765LM ±10 %	810LM ±10 %	810LM ±10 %	620-625nm	517-522nm	456-460nm
			Beam Angle	30° 【5° / 120° Optional 】					
Life Time	Certifications	IP Code	Luminaires Class		product dimension		N.W		
30.000Hours	CE,RoHS	IP68	Class III		Φ145*180mm		0.8Kg		
Operating Temperature	Storage Temperature	Lamp Body Material	Lamp Shade Material		Packing dimension		G.W		
-20 °C to+50 °C	-30 °C to+60 °C	304 Stainless Steel	304 Stainless Steel		L160*W100*H185mm		0.85Kg		
Outer carton package	20*1layer=20PCS/carton,K=K corrugated paper , L500*W335*H395mm,GW:15.5KG								

MODEL:SUW-12W

Input Voltage	Max.Current	Operating Voltage	Constant Current		Power		Factor		
AC/DC24V	0.5A	DC18V	0.6A		12W ± 10 %		≥0.5		
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K	Wave length		
			Luminous efficiency	85LM/W	90LM/W	90LM/W	Red	Green	Blue
SMD2835	12 PCS	≥80Ra	Luminous flux	1020LM ±10 %	1080LM ±10 %	1080LM ±10 %	620-625nm	517-522nm	456-460nm
			Beam Angle	30° 【5° / 120° Optional 】					
Life Time	Certifications	IP Code	Luminaires Class		product dimension		N.W		
30.000Hours	CE,RoHS	IP68	Class III		Φ160*185mm		0.98Kg		
Operating Temperature	Storage Temperature	Lamp Body Material	Lamp Shade Material		Packing dimension		G.W		
-20 °Cto+50 °C	-30 °Cto+60 °C	304 Stainless Steel	304 Stainless Steel		L170*W170*H150mm		1.04Kg		
Outer carton package	18*1layer=18PCS/carton,K=K corrugated paper , L530*W360*H470mm,GW:17.1KG								

Electrical/Optical Characteristics/Specifications

MODEL:SUW-18W

Input Voltage	Max.Current	Operating Voltage	Constant Current		Power		Factor		
AC/DC24V	0.75A	DC18V	0.9A		18W ± 10 %		≥0.5		
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K	Wave length		
			Luminous efficiency	85LM/W	90LM/W	90LM/W	Red	Green	Blue
			Luminous flux	1530LM ±10 %	1620LM ±10 %	1620LM ±10 %	620-625nm	517-522nm	456-460nm
SMD2835	18 PCS	≥80Ra	Beam Angle	30° 【5° / 120° Optional】					
Life Time	Certifications	IP Code	Luminaires Class		product dimension		N.W		
30.000Hours	CE,RoHS	IP68	Class III		Φ190*220mm		1.36Kg		
Operating Temperature	Storage Temperature	Lamp Body Material	Lamp Shade Material		Packing dimension		G.W		
-20 °C to+50 °C	-30 °C to+60 °C	304 Stainless Steel	304 Stainless Steel		L210*W135*H255mm		1.42Kg		
Outer carton package	12*1layer=12PCS/carton,K=K corrugated paper , L520*W420*H440mm,GW:16.5KG								

MODEL:SUW-24W

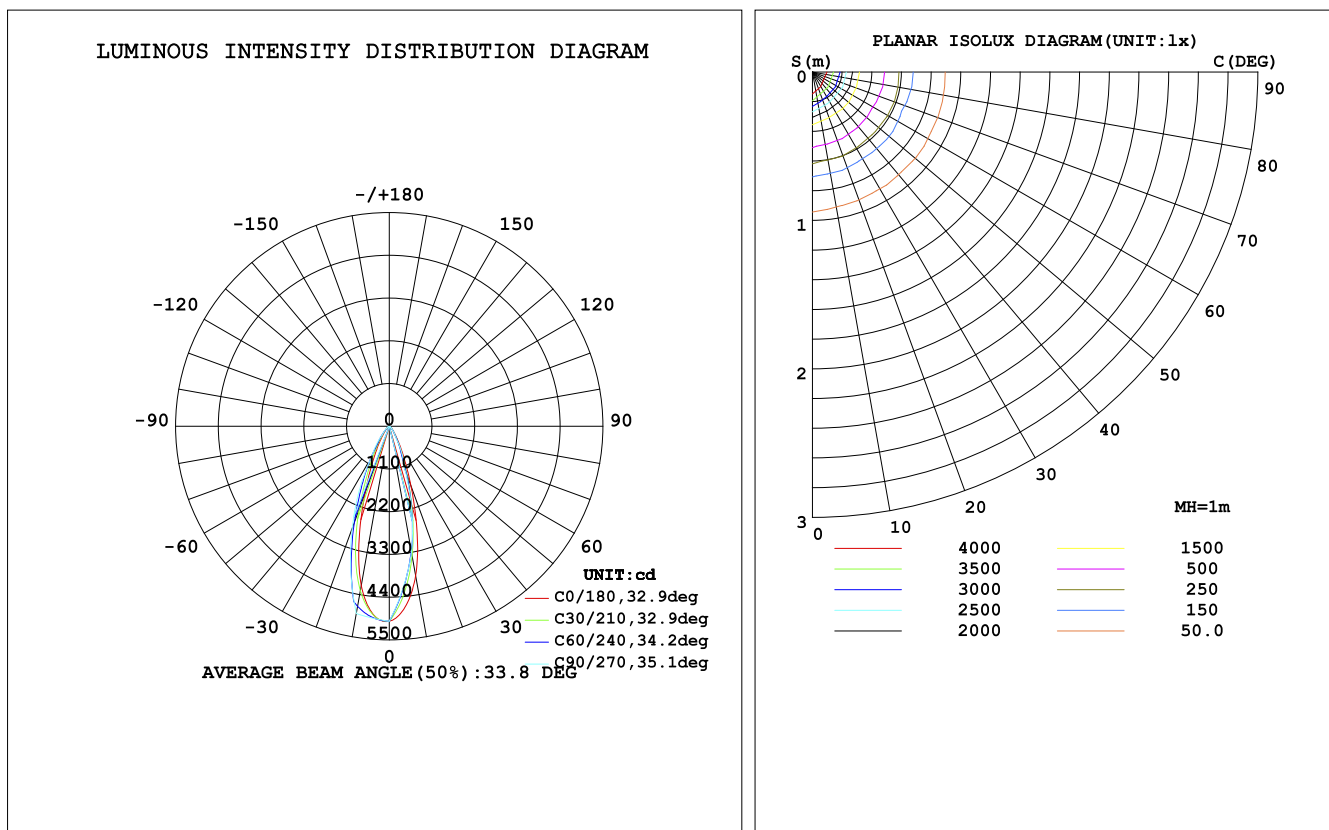
Input Voltage	Max.Current	Operating Voltage	Constant Current		Power			Factor		
AC/DC24V	1.0A	DC18V	1.2A		24W ± 10 %			≥0.5		
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K	Wave length			
			Luminous efficiency	85LM/W	90LM/W	90LM/W	Red	Green	Blue	
SMD2835	24 PCS	≥80Ra	Luminous flux	2040LM ±10%	2160LM ±10%	2160LM ±10%	620-625nm	517-522nm	456-460nm	
			Beam Angle	30° 【5° / 120° Optional】						
Life Time	Certifications	IP Code	Luminaires Class		product dimension			N.W		
30.000Hours	CE,RoHS	IP68	Class III		Φ210*230mm			1.81Kg		
Operating Temperature	Storage Temperature	Lamp Body Material	Lamp Shade Material		Packing dimension			G.W		
-20 ℃to+50 ℃	-30 ℃to+60 ℃	304 Stainless Steel	304 Stainless Steel		L250*W175*H285mm			1.9Kg		
Outer carton package	8*1layer=8PCS/carton,K=K corrugated paper , L530*W370*H590mm,GW:14.6KG									

Electrical/Optical Characteristics/Specifications

MODEL:SUW-36W

Input Voltage	Max.Current	Operating Voltage	Constant Current		Power		Factor		
AC/DC24V	1.5A	DC18V	0.9A*2		36W ± 10 %		≥0.5		
LED Type	LED Q'ty	CRI	CCT	2900-3100K	4000-4500K	5500-6000K	Wave length		
			Luminous efficiency	85LM/W	90LM/W	90LM/W	Red	Green	Blue
			Luminous flux	3060LM ±10 %	3240LM ±10 %	3240LM ±10 %	620-625nm	517-522nm	456-460nm
SMD2835	36 PCS	≥80Ra	Beam Angle	30° 【5° / 120° Optional】					
Life Time	Certifications	IP Code	Luminaires Class		product dimension		N.W		
30.000Hours	CE,RoHS	IP68	Class III		Φ230*240mm		2.06Kg		
Operating Temperature	Storage Temperature	Lamp Body Material	Lamp Shade Material		Packing dimension		G.W		
-20 °C to+50 °C	-30 °C to+60 °C	304 Stainless Steel	304 Stainless Steel		L250*W175*H285mm		2.2Kg		
Outer carton package	8*1layer=8PCS/carton,K=K corrugated paper , L530*W370*H590mm,GW:17.5KG								

Test report



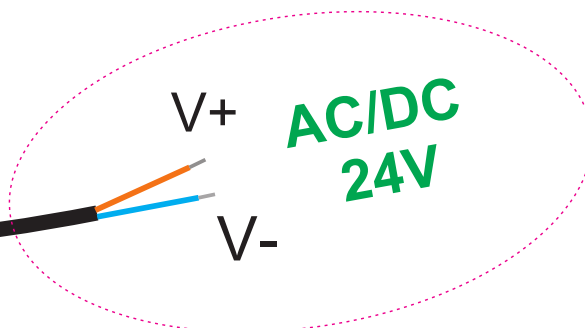
Wiring Diagram



AC/DC24V Input:

V+ -Brown

V- -Blue



Do not connect AC 230V or higher than 24V voltage, otherwise it will damage the lamp

Notes:

1. Please always use the light out of its package.
2. Before starting use of the light, please check if the light was damaged during transportation. If any damage shown, please DO not install or use it.
3. Any maintenance should be performed by trained professionals only.
4. Keep packaging material away from the reach of children and pets. Risk of suffocation!
5. Caution. The packaging contains small parts that may be swallowed by children.
6. Never leave children unattended in the vicinity of the lights and do not allow them to play with electrical devices.
7. Try to avoid looking directly in the LED beam-especially for extended periods of time. Do not shine the LED light in another person's eyes.
8. Never cover the lights by other objects.
9. Never allow the light to come into contact with open flames or external heat sources.
10. The products need to re-repair inspection or special treatment of retirement after service time
11. Non-professionals are not allowed to disassemble and maintain the products. We have the right not to provide after-sale service if unauthorized disassembly and maintenance happens to the products.