



Knowing you're safe

Philips TUV Amalgam XPT System – 325W HO lamp and driver for the perfect match

The system consists of an electronic driver that operates one 325W HO TUV Amalgam XPT lamp. The electrical specifications are tailored to the lamp, mounted within a sleeve, which is installed in a water channel.

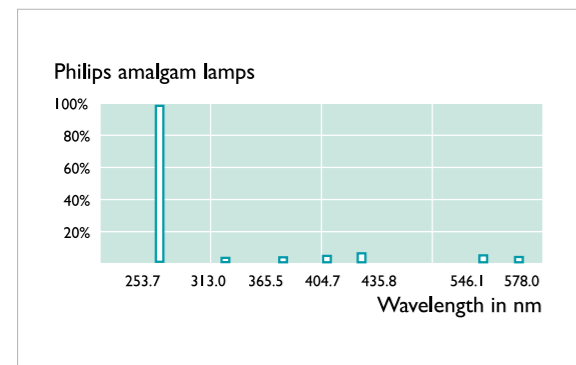
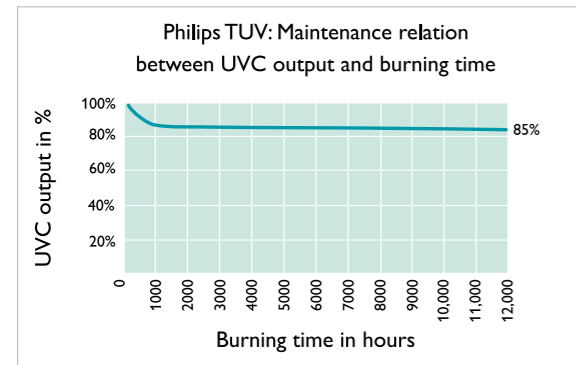
The Philips drivers ensure an optimized performance of the Philips TUV Amalgam XPT lamps. Thanks to extensive testing before a system is released, we can ensure maximum reliability and long lifetime of our lamp and driver systems.

PHILIPS
sense and simplicity

Philips system benefits

- Security of effective disinfection over the complete lifetime of the system
- Approximately 10% energy savings, because lamps can be dimmed to reach the same UV output compared to similar lamps on the market
- High system efficacy because it is not required to over-design the purification system to maintain effectiveness of disinfection
- Best environmental choice because of long reliable life, less waste and industry leading low amount of mercury

Philips TUV Amalgam XPT lamps 325W

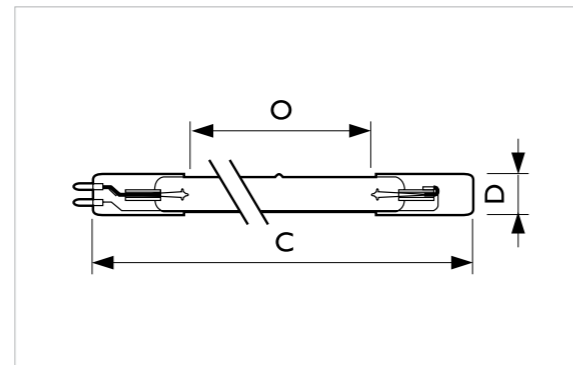


Product Features

- Short-wave UV radiation with a peak at 253.7 nm (UVC) for disinfection
- Special amalgam used for highest efficiency over wide temperature range
- Protective inside coating ensures constant UV output over the complete lifetime of the lamp

Applications

- Deactivation of bacteria, viruses and other micro-organisms for:
- Municipal drinking water treatment equipment
 - Municipal waste water treatment equipment
 - Process water treatment equipment
 - Swimming pool units
 - Equipment for the production of ultra-pure water, for example for the semiconductor, pharmaceuticals and cosmetics industries (ozone version)



C = 1582 mm
D = 19 mm
O = 1480 mm

- Minimized amount of mercury
- Universal burning position possible, depending on sleeve type
- Tailor-made solutions possible
- Lamp can be made from special quartz (open / synthetic) to maximize 185nm Ozone generation

Philips TUV Amalgam XPT driver 325W (HO)

Technical characteristics:

- Operates 325W (HO) TUV Amalgam lamp
- Dimming down to 50% possible for energy savings
- Dimming control 0 ~ 10VDC
- 100% stress testing minimizing 0-hour failures
- Protection against voltage peaks
- Permanent overvoltage protection
- Mains input voltage 110 ~ 277V AC, +/- 10%
- Mains Frequency: 50/60 Hz
- Inrush current 3.3 A / 1.3 A
- Power factor: >0.98 at 230V, full power
- Efficiency: >93% at 230V, full power

- Initial warm-up: Preheating 2.0 A
- Lamp current: 2.0 A at full power
- Secondary short-circuit current: 2.2 A

- Ambient temperature: -10 ~ 50 °C
- Environment humidity: Max 95%
- Maximum Tc point: 75 °C
- Indicator: Max. 24V / 100 mA

- Approval marks: UL, CE and PSE
- RoHS conform: Yes

- Weight: 1.9 kg

Protection:

- Open circuit protection: when the lamp does not work or no lamp loading is detected
- EOL protection: Shut down driver when lamp is at electrical end-of-life
- Output short-circuit: Driver will not be damaged by output short-circuit
- Indicator:
 - Driver runs normally: Short-circuit on indicator interface.
 - Driver stops operation: Open-circuit on indicator interface.

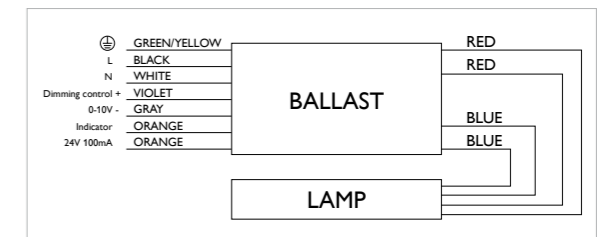
Terminals and Enclosure

The driver with lead wires, 254mm (10") in length for all input and output connections, including dimming control interface connections.

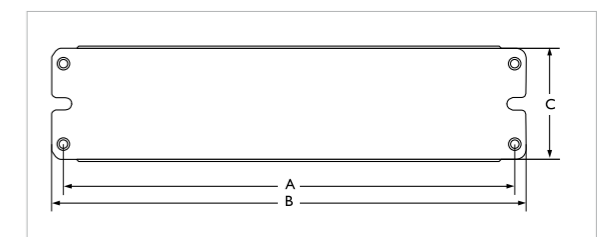
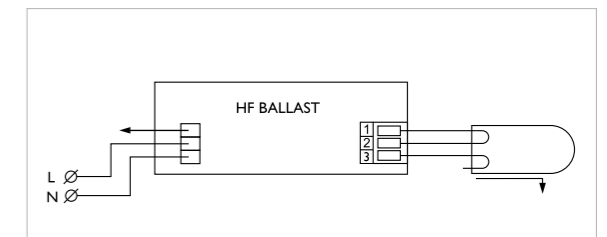
Wire colors

Connection	Length	Color
Input		
Line	254 mm	Black
Neutral	254 mm	White
Earth	254 mm	Green
Interface +	254 mm	Violet
Interface -	254 mm	Gray
Indicator	254 mm	Orange
Indicator	254 mm	Orange
Output		
Lamp filament 1	254 mm	Red
Lamp filament 1	254 mm	Red
Lamp filament 2	254 mm	Blue
Lamp filament 2	254 mm	Blue

Connection



Dimensions



Type T6	Cap/base	Lamp wattage (W)	Lamp voltage (V)	Lamp current (A)	UVC 100h (W)	Maintenance 12,000 h %	Useful lifetime h	Ordering code
Philips TUV 325W HO XPT	4p-SE	325	158	2.0	110	85	12,000	9281 070 05100

Type	A (mm)	B (mm)	C (mm)	Line Frequency (Hz)	Main input (V)	Number of lamps	Lamp Power (W)	Driver efficiency	Useful lifetime h	Preheated/dimmable	Ordering code
Philips TUV 325W (HO) XPT driver	283	297	69.4	50/60	110-277	1	280-325	>93%	50,000	yes	9137 100 54995



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