USHIO USH Super High Pressure UV Lamp

USH-350DP

Model

USH-350DP

Initial Specifications

Wattage Power Range ※3	W	350
Operating Voltage ※4	V	60±6

※3 Ensure that the lamp is correctly used with proper lamp input. Otherwise lamp performance may vary according to partial mercury evaporation.
※4 As the arc gap increases by electrode evaporation, lamp voltage increases.

Specifications

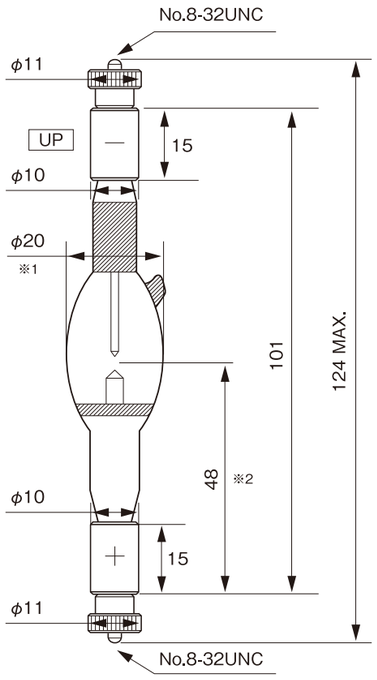
Cold Arc Gap	mm	2.8
Weight	g	38
Avg Rated Life ※5	h	1000

※5 Be sure to replace the lamp at the rated lamp life. Otherwise it could cause an injury if it bursts. Average rated life : represents the average life span when lit continuously at the rated power. The average rated life terminates then either ① or ② takes place. ①When the horizontal irradiance or total luminous flux are reduced to 70% of the initial values. ②When lighting is no longer possible.

Intensity (RepresentativeValues) ※6

Horizontal Liminous Intensity (μW/cm²) (1m from lamp)	360～370nm
	148
Total Luminous Flux (lm)	22100

※6 1mW/cm²=1000μW/cm²



※1 Diameter excludes height of protuberance on lamp bulb.
※2 Length to the center of the cold arc gap.

Operating Condition ※7

☐ **Power Supply**

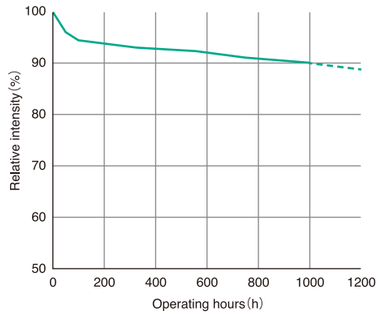
Type	Constant Power Control	
Current Ripple	P-P, %MAX	3
Torigger Voltage ※8	Min, kV DC	4
Supply Voltage ※9	Min, V	120

☐ **Lamp House**

Position	°	Vertical ±45
Base Temprature	°C, MAX	200
Bulb Temprature	°C	650～750
Forced Cooling ※10	Necessary	
Lamp Current	A, MAX	9

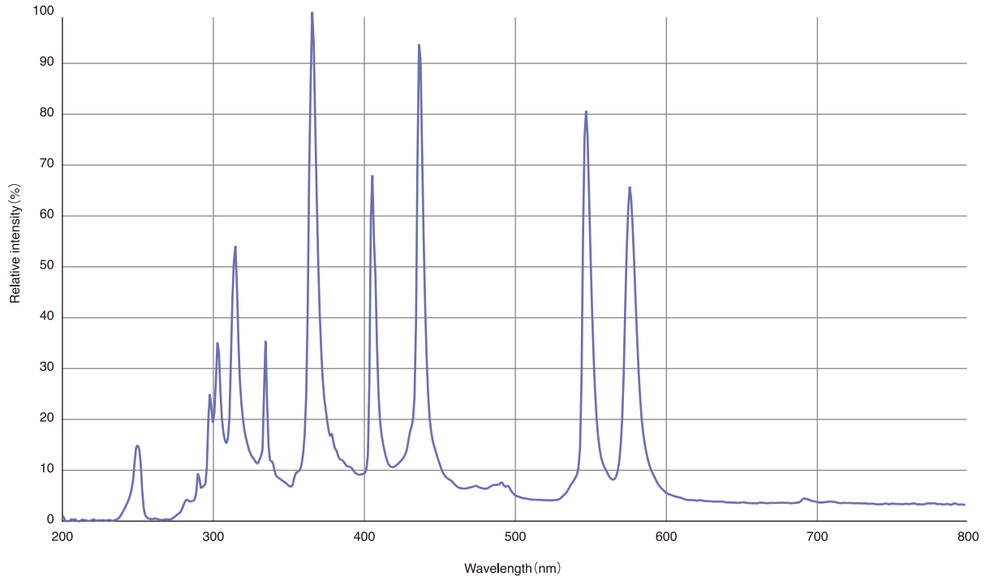
※7 Use in well-designed and power supply. Otherwise it may cause lamp bursts or shorten life.
※8 Voltage to ignite lamp. Exhausted lamp needs higher voltage to be ignited as electrodes evaporation.
※9 Open circuit voltage to light the lamp.
※10 Adjust the cooling to obtain the center of the operating voltage range.

Lamp Life Curve (Typical Value) ※11



※11 Horizontal luminous intensity at continuous use. Frequent switch may cause shorter life.

Spectral Distribution ※12



※12 Reference value at horizontal measurement.