

# ULTRA-VIOLET RADIATION SOURCE AND CONTROLLER

HIGH POWER

MHFUVL-Series

## Introduction:

MHFUVL series of ultraviolet source Ultraviolet radiation in use wavelength 200-280nm (UVC) have strong sterilizing effect destroys DNA molecule fabric and restrain microorganism's rebirth. UVC ultraviolet germicidal has the advantage of prompting, environment protection, no second pollution, and is widely used in sterilizing air and water, as well as various objects' surface sterilization, include food and packing. Vacuum UV radiation, whose wavelength in 100-200nm, can decompose organic molecule and engender ozone and hydrochloride, make organic molecule oxidize into carbon dioxide and water in the end. Vacuum UV radiation is widely used to eliminate TOC in pharmacy and semiconductor, in order to purify equipment. Further UV lamp, wavelength 254nm, sterilize better effect, wavelength <230nm, UV radiation energy can destroy chemistry combination of fungus, wavelength<200nm, ozone producing in the oxygen can decompose oxidation process combined by organic. These are available in 5- different model ranging from 10-1000 watts to telecom, airlines, railways, electrical utilities, high frequency ballast operated vehicles, electrochemical, corrosion, petrochemical industry, organic/inorganic chemical, heavy electrical/mechanical industries, machine tools, non-conventional energy, solids state physics application and many uncountable defense/nuclear applications. Updated design topology ensures better controllability and efficiency with additional integrated power/voltage and frequency control/protection. These high frequency ballast s may operate in parallel to make it more redundant. Company offers tailor made solution to custom requirement.

## Operating Principle:



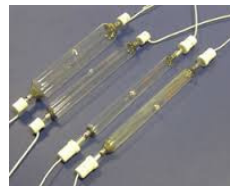
MHFUVL-024100

A.C. U.V. LAMP

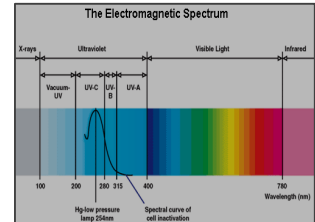


MHFUVL-096100

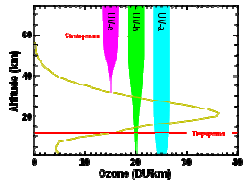
A.C. U.V. LAMP



MHFUVL-120100



Model	Watts	Volts .a.c.	amps a.c.	Ballast factor	Model	Watts	Volts a.c.	Amp a.c.	Ballast factor
MHFUVL-0060501	20	90-250	0.14	<0.88	MHFUVL-0481501	200	90-250	1.1	<0.88
MHFUVL-0120501	40	90-250	0.2	<0.88	MHFUVL-0482001	400	90-250	1.9	<0.88
MHFUVL-0121001	60	90-250	0.3	<0.88	MHFUVL-0960251	600	90-250	3.1	<0.88
MHFUVL-0122001	80	90-250	0.4	<0.88	MHFUVL-0960501	800	90-250	4.2	<0.88
MHFUVL-0240251	100	90-250	0.6	<0.88	MHFUVL-0961001	1000	90-250	4.9	<0.88



U.V. Vs ozone level



U.V Exposure on wood



U.V. Exposure on polymer

D.C. U.V. LAMP

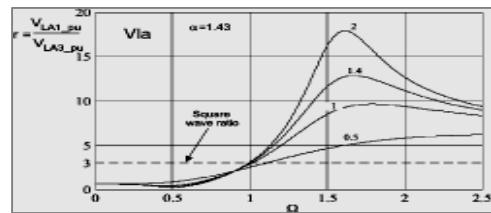
D.C. U.V. LAMP

Model	Watts	Volts d.c.	amps d.c.	Ballast factor	Model	Watts	Volts d.c.	Amp d.c.	Ballast factor
MHFUVL-0060502	20	12.0		<0.88	MHFUVL-0481502	200	24.0		<0.88
MHFUVL-0120502	4025	12.0		<0.88	MHFUVL-0482002	400	24.0		<0.88
MHFUVL-0121002	60	12.0		<0.88	MHFUVL-0960252	600	24.0		<0.88
MHFUVL-0122002	80	12.0		<0.88	MHFUVL-0960502	800	24.0		<0.88
MHFUVL-0240252	100	12.0		<0.88	MHFUVL-0961002	1000	24.0		<0.88

Pulse mode high frequency ballast s is also available.

## High Frequency High frequency ballast s Dimension:

MHFUVL-006050	08X06X06	MHFUVL-048150	14X12X12
MHFUVL-048050	10X06X06	MHFUVL-096400	16X14X14
MHFUVL-012050	10X06X06	MHFUVL-048200	16X14X14
MHFUVL-012100	12X08X08	MHFUVL-096025	18X16X16
MHFUVL-024025	12X10X10	MHFUVL-096050	20X18X18
MHFUVL-024200	08X06X06	MHFUVL-024050	12X10X10
MHFUVL-096200	14X12X12	MHFUVL-096100	20X18X18



Fundamental to third harmonic as function of frequency

Three numerals x 100 after MHFUVL indicates voltage of high frequency ballast and last three digit Indicates current. All dimensions are in inches.

## MOTORON SEMICONDUCTORS CORPORATION

11, Shri nagar colony, shakti nagar extension, DELHI-110052. Tel: 011-23648181/23655454 fax: 011-23585424  
e.mail: motoronenergy@hotmail.com