

HMI[®] Metal Halide Lamp Family



Key Features & Benefits

- High intensity light simulates daylight color temperature of 6000K with a CRI >90
- Enhanced safety with UV-Stop (UVS) feature on select HMI single-end lamps
- Stronger, longer life with multiple moly-foils in seal design
- Mechanically robust with eXtreme Seal (XS) technology, up to 450°C at the pinch seal
- Capable of hot restrike ignition
- High color stability with average changes in color temperature during lamp life only 1° K/hr
- Dimmable down to 40% with stable color using many electronic ballasts
- High energy efficiency providing 100 LPW

For over 40 years, OSRAM HMI lamps have been meeting the toughest demands of the film and TV industry. HMI lamps simulate daylight color temperature of 6000K, have excellent color rendering and photometric integrity throughout their life. OSRAM received an OSCAR[®] in 1987 and a PRIMETIME EMMY[®] Engineering award in 2007 for the invention and continuous improvement of HMI lamp technology. As a result, the HMI lamp family continues to be an integral part of film sets around the world. HMI lamps are available in single or double end with wattages from 200 to 24,000.

Single-end UV-Stop (Ultra Violet) quartz lamps in the HMI “UVS” family will provide enhanced safety for those on the set. Recognizable by their orange base, HMI UVS lamps block most harmful UV radiation while it simulates the same daylight color temperature with performance customers expect from OSRAM lamps.

Our newest HMI UVS lamps are called the EVENT series and are used for exhibition and auto shows. With a black base, they have improved heat resistance for high thermal requirements along with a tighter range of color temperature.

Product Offering

Type	Watts	Lumens (lm)	Avg Rated Life (hrs)
Single End UV-Stop	200, 400, 575, 800, 1200, 1600, 1800	16,000 to 165,000	200 to 1000
Single End	2500, 4000	240,000 to 380,000	500
Single End Director Series	6000, 9000, 12,000, 18,000	600,000 to 1,600,000	350 to 500
Double End	575, 1200, 2500, 4000	49,000 to 380,000	500 to 1000
Double End Director Series	6000, 12,000, 18,000, 24,000	570,000 to 2,300,000	500
Single End EVENT Series	575, 1200	49,000 to 110,000	1000

Application Information

Applications

- Film, TV and video productions
- Industrial solar simulation
- Lighting for major events, exhibition and auto shows
- Professional photography
- Stage lighting (theatre, opera, etc.)

Typical Fixtures

- Follow and moving-head spotlights
- Fresnel luminaires
- PAR/open luminaires
- Soft and flood lighting

Application Notes

1. These lamps may emit ultraviolet (UV) radiation and operate at high pressure. Before use, read the complete warnings accompanying the product.
2. HMI lamps may only be operated in enclosed lamp fixtures specially constructed for that purpose.
3. HMI lamps are available in single end and double end.
4. Use electronic ballasts for the best performance.

Disposal

HMI lamps contain mercury. When disposing of spent lamps, always consult federal, state, local and provincial hazardous waste disposal rules and regulations to ensure proper disposal.



Ordering Information

Item Number	Ordering Abbreviation	UV-Stop	Watts (W)	Volts (V)	Current (Amps)	Base	Color Temp (K)	CRI	Electrode Arc Gap (mm)	Lumens (lm)	Average Rated Life (hrs)	Operating Position
SINGLE END												
53977	HMI 200W/SE UVS	Yes	200	70	3	GZY9.5	6000	90	5	16,000	200	Any
54220	HMI 200W/SE	No	200	70	3	GZY9.5	6000	90	5	16,000	200	Any
53978	HMI 400W/SE UVS	Yes	400	70	6.9	GZZ9.5	6000	90	6	33,000	650	Any
54219	HMI 400W/SE	No	400	70	6.9	GZZ9.5	6000	90	6	33,000	650	Any
53974	HMI 575W EVENT	Yes	575	95	7	G22	6000	90	7	49,000	1000	Any
53979	HMI 575W/SEL UVS	Yes	575	95	7.7	G22	6000	90	7	49,000	1000	Any
54063	HMI 575W/SEL	No	575	95	7.7	G22	6000	90	7	49,000	1000	Any
54482	HMI 800W/SEL UVS	Yes	800	95	8.4	G22	6000	90	7	65,000	1000	Any
53975	HMI 1200W EVENT	Yes	1200	100	13.8	G38	6000	90	10	110,000	1000	Any
53980	HMI 1200W/SEL UVS	Yes	1200	100	13.8	G38	6000	90	10	110,000	1000	Any
54067	HMI 1200W/SEL/XS	No	1200	100	13.8	G38	6000	90	10	110,000	1000	Any
53981	HMI 1600W/SE UVS	Yes	1600	150	10.7	G22	6000	90	11	150,000	750	Any
53982	HMI 1800W/SE UVS	Yes	1800	140	13	G38	6000	90	13	165,000	750	Any
54177	HMI 1800W/SE/XS	No	1800	140	13	G38	6000	90	13	165,000	750	Any
54070	HMI 2500W/SE/XS	No	2500	115	25.6	G38	6000	90	14	240,000	500	Any
54321	HMI 4000W/SE/XS	No	4000	200	24.0	G38	6000	90	20	380,000	500	Any
54099	HMI 6000W/SE/XS	No	6000	123	55.0	GX38	6000	90	23	600,000	500	S135*
54464	HMI 9000W/SE/XS	No	9000	160	56.0	GX38	6000	90	26	875,000	400	S135*
54113	HMI 12000W/SE/XS	No	12,000	160	84.0	GX38	6000	90	27	1,150,000	500	S135*
54324	HMI 18000W/SE GX51	No	18,000	225	88.0	GX51	6000	90	44	1,600,000	350	S135*
DOUBLE END												
54313	HMI 575W/DXS	No	575	95	7.0	SFc10-4	6000	90	7	49,000	1000	Any
55139	HMI 1200W/DXS	No	1200	100	13.8	SFc15.5	6000	90	10	110,000	1000	Any
54068	HMI 2500W/S/XS	No	2500	115	25.6	SFa21	6000	90	14	240,000	500	P30*
54265	HMI 2500W/DXS	No	2500	115	25.6	SFa21	6000	90	14	240,000	500	P30*
54314	HMI 4000W/DXS	No	4000	200	24.0	SFa21	6000	90	34	380,000	500	P15*
54315	HMI 6000W/DXS	No	6000	123	55.0	S25.5	6000	90	21	570,000	500	P15*
54316	HMI 12000W/DXS	No	12,000	160	84.0	S30	6000	90	25	1,150,000	500	P15*
54213	HMI 18000W/DXS	No	18,000	225	88.0	S30	6000	90	44	1,700,000	500	P15*
54325	HMI 24000W/DXS	No	24,000	280	86.0	S30	6000	90	50	2,300,000	500	P15*

*Operating Positions: P = horizontal position. S = vertical position with base down. P or S is followed by the number of degrees the lamp can be tilted from the original axis position to maintain optimal performance.

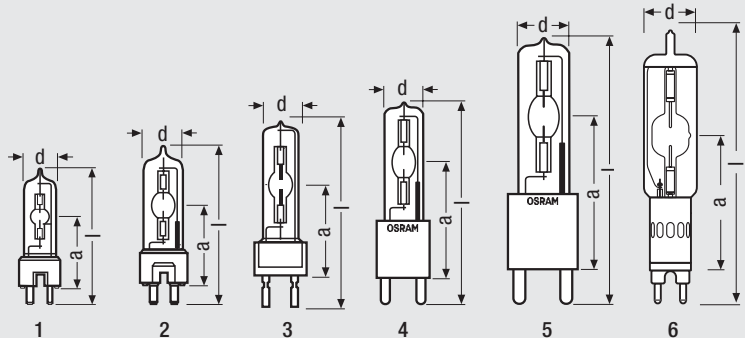
Ordering Guide

HMI	/	1200W	/	SEL	/	XS
HMI Lamp		Wattage		SE: Single End L: Long Life S: Short Double End DXS: Double End with eXtreme Seal technology		XS: eXtreme Seal technology UVS: UV-Stop

Dimensions

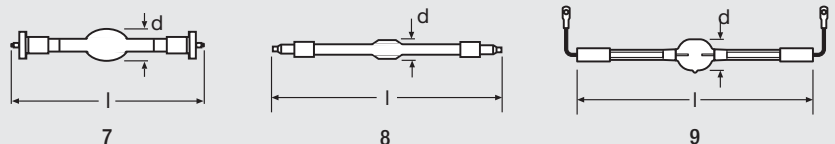
SINGLE END

Ordering Abbreviation	Figure	MOL (l) mm	Diameter (d) mm	LCL (a) mm
HMI 200W/SE (UVS)	1	80	20	39
HMI 400W/SE (UVS)	2	110	23	60
HMI 575W EVENT	3	145	30	70
HMI 575W/SEL (UVS)	3	145	30	70
HMI 800W/SEL UVS	3	145	30	70
HMI 1200W EVENT	4	200	42	107
HMI 1200W/SEL (UVS)	4	200	42	107
HMI 1600W/SE UVS	3	175	38	107
HMI 1800W/SE (UVS)	4	200	42	107
HMI 2500W/SE/XS	4	225	60	127
HMI 4000W/SE/XS	4	250	75	142
HMI 6000W/SE/XS	5	360	75	210
HMI 9000W/SE/XS	5	380	80	210
HMI 12000W/SE/XS	5	455	100	255
HMI 18000W/SE GX51	6	495	100	260



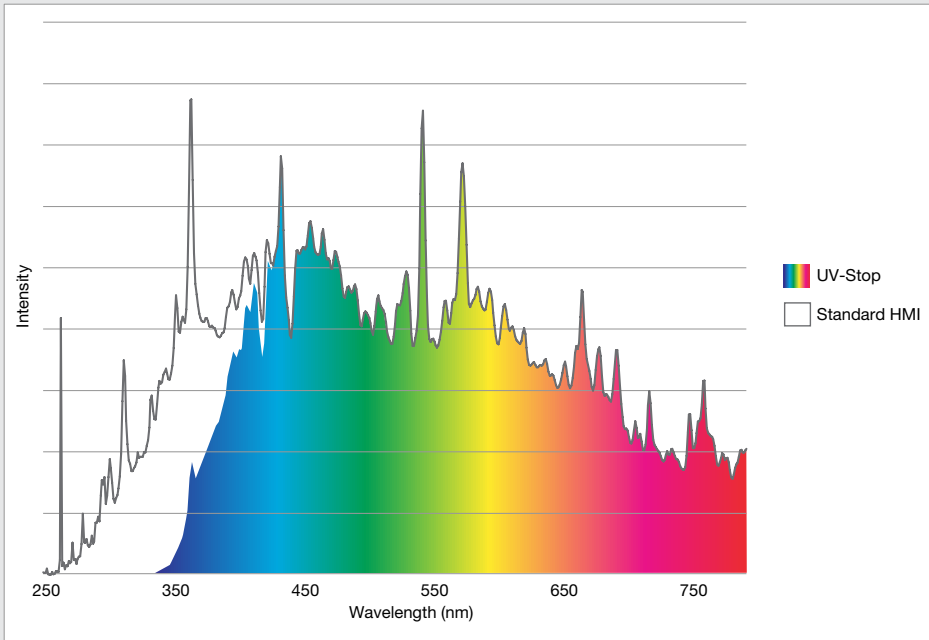
DOUBLE END

Ordering Abbreviation	Figure	MOL (l) mm	Diameter (d) mm
HMI 575W/DXS	7	135	21
HMI 1200W/DXS	7	220	27
HMI 2500W/S/XS	8	210	32
HMI 2500W/DXS	8	355	32
HMI 4000W/DXS	8	405	36
HMI 6000W/DXS	9	450	54
HMI 12000W/DXS	9	470	64
HMI 18000W/DXS	9	500	77
HMI 24000W/DXS	9	500	83



Technical Information

Spectral Power Distribution
HMI 800 W/SEL UVS vs. HMI 800 W/SEL



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