

HID Ballast Information

HID BALLASTS - HIGH PRESSURE SODIUM REFERENCE TABLE

Lamp Wattages	Lamp Type	Ballast Type	Power Factor	Primary Voltage	Starting Current (Amps)	Operating Current (Amps)	Open Circuit Current	Line Input Watts	Operating Voltage Range*	Minimum Starting Ambient(°C)
35	S-76	R	NPF	120	1.35	0.83	—	46	A	-40
		R	NPF	120	1.80	1.18	—	62	A	-40
50	S-68	HX	HPF	277	0.65	0.61	0.99	66	A	-40
		HX	HPF	277	0.30	0.26	0.44			
70	S-62	R	NPF	120	2.10	1.6	—	86	A	-40
		R	NPF	120	0.75	0.81	1.45	91	A	-40
		HX	HPF	208	0.45	0.47	0.85			
		HX	HPF	240	0.37	0.40	0.75			
		HX	HPF	277	0.35	0.35	0.65			
		HX	HPF	480	0.21	0.21	0.36	93		
100	S-54	R	NPF	120	3.05	2.1	—	115	A	-40
		R	NPF	120	1.30	1.15	2.20	130	A	-40
		HX	HPF	208	0.76	0.67	1.27			
		HX	HPF	240	0.66	0.58	1.10			
		HX	HPF	277	0.60	0.50	0.85			
HX	HPF	480	0.33	0.29	0.57					
150	S-55	R	NPF	120	4.5	3.2	—	170	A	-40
		R	NPF	120	2.0	1.65	2.80	188	A	-40
		HX	HPF	208	1.15	0.95	1.60			
		HX	HPF	240	1.0	0.83	1.40			
		HX	HPF	277	0.85	0.72	1.25			
HX	HPF	480	0.50	0.42	0.70					
200	S-66	CWA	HPF	120	1.55	2.22	1.32	240	B	-40
				208	0.89	1.28	0.76			
				240	0.78	1.11	0.66			
				277	0.67	0.96	0.57			
480	0.38	0.56	0.33							
250	S-50	CWA	HPF	120	1.60	2.70	2.20	295	B	-40
				208	0.95	1.50	1.15			
				240	0.85	1.36	1.00			
				277	0.70	1.15	0.95			
480	0.40	0.65	0.60							
310	S-67	CWA	HPF	120	1.70	3.37	1.90	365	B	-40
				208	0.89	1.94	1.10			
				240	0.85	1.68	0.90			
				277	0.75	1.45	0.80			
480	0.41	0.84	0.45							
400	S-51	CWA	HPF	120	2.70	3.80	2.00	457	B	-40
				208	1.70	2.20	1.20			
				240	1.40	1.90	0.95			
				277	1.30	1.70	0.85			
480	0.70	1.00	0.55							
750	S-111	CWA	HPF	120	6.68	7.12	3.0	850	B	-40
				208	3.85	4.10	1.73			
				240	3.34	3.56	1.50			
				277	2.90	3.10	1.30			
480	1.67	1.78	0.75							
1000	S-52	CWA	HPF	120	6.35	9.50	4.8	1100	B	-40
				208	3.80	5.50	2.7			
				240	3.20	4.75	2.4			
				277	2.75	4.15	2.2			
480	1.60	2.30	1.2							

*See table at lower right.

HIGH PRESSURE SODIUM BALLASTS

(AND LOW-WATTAGE METAL HALIDE BALLASTS)

Remote ballast-to-lamp mounting distances for these ballasts are limited by the capabilities of the ignitor, because the ignitor must always be mounted with the ballast.

VOLT RANGE (VOLTS)

A (5%)			B(10%)		
HIGH	RATED	LOW	HIGH	RATED	LOW
126	120	114	132	120	108
218	208	198	229	208	187
252	240	228	264	240	216
291	277	263	305	277	249
504	480	456	528	480	432

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HID Ballast Information

HID BALLASTS - METAL HALIDE REFERENCE TABLE

Lamp Wattages	Lamp Type	Ballast Type	Power Factor	Primary Voltage	Starting Current (Amps)	Operating Current (Amps)	Open Circuit Current	Line Input Watts	Operating Voltage Range*	Minimum Starting Ambient(°C)
50	M-110	HX	HPF	120 277	0.60 0.25	0.65 0.30	1.00 0.45	72	A	-30
70	M-98	HX	HPF	120 208 240 277	0.55 0.30 0.25 0.25	0.85 0.50 0.40 0.40	1.90 1.00 0.90 0.80	90	A	-30
100	M-90	HX	HPF	120 208 240 277	1.15 0.66 0.58 0.50	1.15 0.66 0.58 0.50	2.60 1.50 1.30 1.15	129	A	-30
175	M-57, H-39	CWA	HPF	120 208 240 277 480	1.30 0.75 0.65 0.55 0.35	1.80 1.05 0.90 0.80 0.45	1.80 1.05 0.90 0.80 0.45	210	B	-30
250	M-58, H-37	CWA	HPF	120 208 240 277 480	2.10 1.40 1.10 1.00 0.60	2.50 1.45 1.25 1.10 0.60	1.55 0.90 0.80 0.70 0.50	285	B	-30
400	M-59, H-33	CWA	HPF	120 208 240 277 480	3.25 1.90 1.65 1.40 0.85	4.00 2.30 2.00 1.75 1.00	3.40 1.95 1.70 1.50 0.95	458	B	-30
1000	M-47, H-36	CWA	HPF	120 208 240 277 480	8.0 4.6 4.0 3.5 2.0	9.0 5.2 4.5 3.9 2.3	3.5 2.0 1.8 1.5 0.9	1080	B	-30
1500	M-48, H-36	CWA	HPF	120 208 240 277 480	13.5 7.7 6.7 5.9 3.3	13.5 7.8 6.8 5.9 3.4	4.8 2.5 2.2 2.0 1.1	1605	B	-30

*See table at lower right.

METAL HALIDE BALLASTS

The distance at which most Metal Halide Ballasts can be located from their respective lamps are limited by the ballast-to-lamp size.

Note: The ballasts for the new, low-wattage Metal Halide lamps require an ignitor for starting. The maximum distance to the lamp for these is limited by the ignitor as shown on the High Pressure Sodium page.

Maximum One-Way Length of Wire Between Lamp and Ballast (feet)

Wattage	MINIMUM WIRE SIZE				
	#10	#12	#14	#16	#18
175	425	265	165	105	65
250	300	190	120	75	45
1-400 or 2-400	200	125	75	50	30
1000	325	205	125	80	50
1500	225	140	85	55	35

VOLT RANGE (VOLTS)

A (5%)			B (10%)		
HIGH	RATED	LOW	HIGH	RATED	LOW
126	120	114	132	120	108
218	208	198	229	208	187
252	240	228	264	240	216
291	277	263	305	277	249
504	480	456	528	480	432

Atlas Lighting Supply

2828 S. Linwood St. Visalia, CA 93277

Phone: 559-697-6764 Fax: 888-605-2324

www.atlaslightingsupply.com

HID Ballast Information

HID BALLASTS - PULSE START METAL HALIDE REFERENCE TABLE

Lamp Wattages	Lamp Type	Ballast Type	Power Factor	Primary Voltage	Starting Current (Amps)	Operating Current (Amps)	Open Circuit Current	Line Input Watts	Operating Voltage Range*	Minimum Starting Ambient(°C)
150	M-102	HX	HPF	120	0.95	1.60	3.65	185	A	-30
				208	0.55	0.90	2.10	185	A	-30
				240	0.50	0.80	1.80	185	A	-30
				277	0.42	0.70	1.58	185	A	-30
150	M-102	CWA	HPF	120	0.95	1.75	1.40	189	B	-30
				277	0.40	0.76	0.60	189	B	-30
				347	0.30	0.62	0.48	189	B	-30
175	M-137	CWA	HPF	120	1.30	1.80	1.80	208	B	-30
				208	0.75	1.05	1.05	208	B	-30
				240	0.65	0.90	0.90	208	B	-30
				277	0.55	0.80	0.80	208	B	-30
200	M-136	CWA	HPF	120	1.20	2.00	2.20	232	B	-30
				208	0.70	1.15	1.25	232	B	-30
				240	0.60	1.00	1.10	232	B	-30
				277	0.55	0.85	0.95	232	B	-30
				480		0.50		232	B	-30
250	M-138	CWA	HPF	120	2.30	2.50	1.40	288	B	-30
				208	1.30	1.45	0.80	288	B	-30
				240	1.15	1.25	0.70	288	B	-30
				277	1.00	1.10	0.60	288	B	-30
320	M-132	CWA	HPF	120	1.80	3.25	2.30	368	B	-30
				208	1.05	1.90	1.35	368	B	-30
				240	0.90	1.65	1.15	368	B	-30
				277	0.80	1.40	1.00	368	B	-30
				480		0.80		368	B	-30
350	M-131	CWA	HPF	120	2.20	3.40	2.20	400	B	-30
				208	1.30	2.00	1.30	400	B	-30
				240	1.10	1.70	1.10	400	B	-30
				277	1.00	1.50	1.00	400	B	-30
				480		0.90		400	B	-30
400	M-135	CWA	HPF	120	2.85	3.90	2.20	452	B	-30
				208	1.65	2.20	1.50	452	B	-30
				240	1.45	1.90	1.10	452	B	-30
				277	1.25	1.65	0.95	452	B	-30
				480		1.00		452	B	-30
450	M-144	CWA	HPF	120	3.20	4.25	2.15	508	B	-30
				208	1.80	2.50	1.25	508	B	-30
				240	1.60	2.15	1.10	508	B	-30
				277	1.40	1.85	1.00	508	B	-30
				480		1.10		514	B	-30
750	M-149	CWA	HPF	208		7.0		812	B	-30
				240		4.0		812	B	-30
				277		3.5		812	B	-30
				480		3.0		812	B	-30
				6.68		2.0		818	B	-30
1000	M-141	CWA	HPF	120		9.20		1080	B	-30
				208		5.30		1080	B	-30
				240		4.60		1080	B	-30
				277		4.00		1080	B	-30
				480		2.30		1080	B	-30

TECH INFO

*See table at lower right.

PULSE START METAL HALIDE BALLASTS

Remote ballast-to-lamp mounting distances for these ballasts are limited to two feet; this means that the ignitor must be mounted in the ballast housing.

VOLT RANGE (VOLTS)

A (5%)			B(10%)		
HIGH	RATED	LOW	HIGH	RATED	LOW
126	120	114	132	120	108
218	208	198	229	208	187
252	240	228	264	240	216
291	277	263	305	277	249
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