

HIGH INTENSITY DISCHARGE BALLASTS

Ordering Information

Philips Lighting Electronics has developed the industry's broadest selection of HID ballasts. More than 3000 stocking distributors nationwide. For information on the distributor best able to serve your needs, please call 800-372-3331.

Philips Advance HID Ballast Part Number Explanation

71A	60	9	2	-500DAEE																					
<p>Suffix Code* (as applicable)</p> <ul style="list-style-type: none"> -001DB ballast replacement kit with dry capacitor and integral ignitor -001D ballast replacement kit with dry film capacitor -001 ballast replacement kit with oil filled capacitor -500D core & coil ballast with dry film capacitor -500 core & coil ballast with oil filled capacitor -510D core & coil ballast with welded bracket and dry film capacitor -510 core & coil ballast with welded bracket and oil filled capacitor -540D core & coil ballast with welded angle bracket and dry film capacitor -600 core & coil ballast (no capacitor) -610 core & coil ballast with welded bracket (no capacitor) <p>* Add additional feature codes to the end of suffix where applicable. i.e. -B = Integral Ignitor, -P = Thermally Protected, -J = J-Box Mounting, -A = Aluminum Coil, -M = "NOM" (with capacitor), -T = 120V Tap -EE = EISA Compliant Ballast</p>																									
Design Code																									
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center;">60 Hz Voltages</td> <td style="width: 30%;"></td> <td style="text-align: center;">50 Hz Voltages</td> </tr> <tr> <td style="vertical-align: top;">Input Voltage Code</td> <td style="vertical-align: top;"> 0 = 120V 1 = 208V 2 = 240V 3 = 277V 4 = 480V 5 = 120/240V or 120/208/240/277/480V 6 = 240/480V 7 = 120/208/240/277V 8 = 120/277V 9 = 120/208/240/277V </td> <td style="vertical-align: top;"> A = 120/277/347V B = 347V C = 120/347V D = 120/240/347V E = 120/208/240V or 208/240V F = 277/480V, 277/347V, 277/347/480V or 347/480V H = 127/220V J = 220V or 220/240V Y = 100V or 100/200V </td> <td style="vertical-align: top;"> M = 100/200V N = 120/220-240V R = 220/240V </td> </tr> </table>						60 Hz Voltages		50 Hz Voltages	Input Voltage Code	0 = 120V 1 = 208V 2 = 240V 3 = 277V 4 = 480V 5 = 120/240V or 120/208/240/277/480V 6 = 240/480V 7 = 120/208/240/277V 8 = 120/277V 9 = 120/208/240/277V	A = 120/277/347V B = 347V C = 120/347V D = 120/240/347V E = 120/208/240V or 208/240V F = 277/480V, 277/347V, 277/347/480V or 347/480V H = 127/220V J = 220V or 220/240V Y = 100V or 100/200V	M = 100/200V N = 120/220-240V R = 220/240V													
	60 Hz Voltages		50 Hz Voltages																						
Input Voltage Code	0 = 120V 1 = 208V 2 = 240V 3 = 277V 4 = 480V 5 = 120/240V or 120/208/240/277/480V 6 = 240/480V 7 = 120/208/240/277V 8 = 120/277V 9 = 120/208/240/277V	A = 120/277/347V B = 347V C = 120/347V D = 120/240/347V E = 120/208/240V or 208/240V F = 277/480V, 277/347V, 277/347/480V or 347/480V H = 127/220V J = 220V or 220/240V Y = 100V or 100/200V	M = 100/200V N = 120/220-240V R = 220/240V																						
Lamp Type/Wattage/Ballast Circuit Code																									
Ballast Type	<table style="border: none;"> <tr> <td style="width: 50px;">71A</td> <td>=</td> <td>Core and Coil Ballast</td> </tr> <tr> <td>72C</td> <td>=</td> <td>F-Can Ballast</td> </tr> <tr> <td>73B</td> <td>=</td> <td>Encapsulated Core and Coil Ballast</td> </tr> <tr> <td>74P</td> <td>=</td> <td>Postline Ballast</td> </tr> <tr> <td>77L</td> <td>=</td> <td>Val-U-Pak Plus Replacement Ballast kit (includes lamp)</td> </tr> <tr> <td>78E</td> <td>=</td> <td>Indoor Enclosed Ballast</td> </tr> <tr> <td>79W</td> <td>=</td> <td>Outdoor Weatherproof Ballast</td> </tr> </table>				71A	=	Core and Coil Ballast	72C	=	F-Can Ballast	73B	=	Encapsulated Core and Coil Ballast	74P	=	Postline Ballast	77L	=	Val-U-Pak Plus Replacement Ballast kit (includes lamp)	78E	=	Indoor Enclosed Ballast	79W	=	Outdoor Weatherproof Ballast
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HID

60 Hz Core & Coil Ballasts

Metal Halide



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
35/39W Lamp, ANSI Code M130 (Pulse-Start)																		
❖ 120	71A5005-500DP	HX-HPF	55	1.1	230	3	F	6	.9	1.8	28	120	7C280M12RA	D	2.2	LI533-H4	15	A
NOM 120/277	71A5081-500D	HX-HPF	56	.9/4	230	3/1	K	1	.8	2.1	5	280	7C050L30A	D	3.5	LI533-H4	15	B/A
❖ 277	71A5037-500DP	HX-HPF	48	.6	277	2	G	9	.8	1.9	5	280	7C050L30A	D	1.8	LI533-H4	7	A
❖ 277	71A5037-500DBP	R-HPF	48	.6	277	2	H	9	1.0	2.7	5	280	7C050L30A	D	1.9	Integral Ignitor	2	A
50W Lamp, ANSI Code M110 or M148 (Pulse-Start)																		
❖ 120	71A5105-600P 71A5105-500DP	HX-NPF HX-PFC	69	2.0 1.1	260	5 3	F	6	1.0	1.9	28	120	7C280M12RA	D	2.1 2.3	LI533-H4	15	A
120/277	71A5181-001D	HX-HPF	72	1.0/5	260	3/2	K	1	1.2	2.1	6	280	7C060L30RA	D	4.0	LI533-H4	10	A/A
120/208/ 240/277	71A5191-500D 71A5191-001D	HX-HPF	67	1.2/.68/ .59/5.1	254	3/3/ 2/2	K	1	1.2	2.3	6	280	7C060L30RA	D	4.0	LI533-H4	10	A/A A/A
❖ 277	71A5137-510DP	R-HPF	62	.6	277	2	G	9	1.1	2.2	5	280	7C050L30A	D	2.2	LI533-H4	2	A
❖ 277	71A5137-500DBP	R-HPF	62	.6	277	2	H	9	1.1	2.2	5	280	7C050L30A	D	2.2	Integral Ignitor	2	A

HID • Core & Coil Metal Halide

† Ordering information:
Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).
 -500D includes core & coil with dry-film capacitor.
 -500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).
 May also be available with welded bracket, and/or without capacitor:
 -510D includes core & coil with welded bracket and dry-film capacitor.
 -510 includes core & coil with welded bracket and oil-filled capacitor.
 -600 core & coil only (no capacitor).
 -610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

• **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

❖ Canadian replacement/retrofit ballast kit indicated by bold type. Refer to page 5-9.

❖ Includes auto-reset thermal protection.

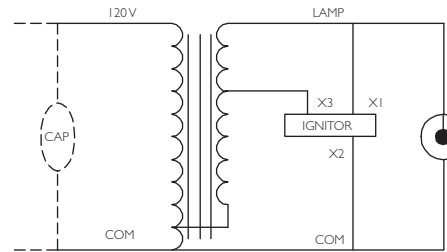


Fig. F

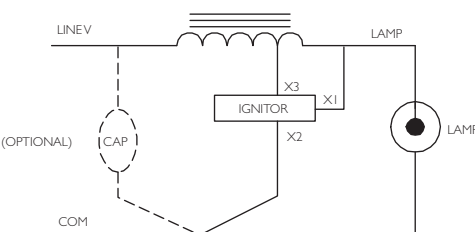


Fig. G

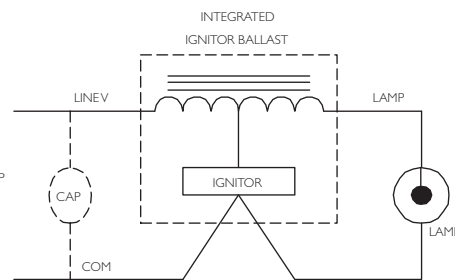


Fig. H

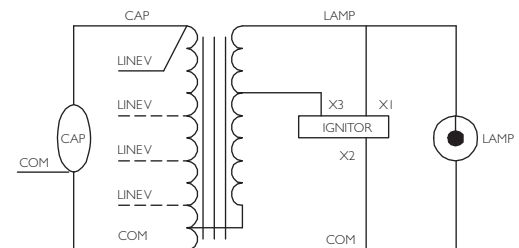


Fig. K



60 Hz Core & Coil Ballasts

Metal Halide



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
70W Lamp, ANSI Code M98 (Medium Base) or M143 (Pulse-Start)																			
120	71A5205-600P 71A5205-500DP	HX-NPF HX-PFC	94	2.6 1.4	255	6 4	F	6	1.6	2.7	36	120	7C360M12RA	D	3.5 3.7	LI533-H4	10	B	✦
127/220	71A52H2-500DM	HX-HPF	90	1.9/9	255	4/2	K	1	1.5	2.8	8	280	7C080L30RA	D	5.0	LI533-H4	15	A/A	NOM
120/208/ 240/277	71A5292-500D 71A5292-001D	HX-HPF	90	1.9/1.0/ .9/.8	255	4/3/ 2/2	K	1	1.5	2.8	8	280	7C080L30RA	D	5.0	LI533-H4	15	A/A/ A/A	NOM
120/ 277/347	71A52A2-500D 71A52A2-001D	HX-HPF	90	1.9/ .8/.7	255	4/ 2/2	K	1	1.5	2.8	8	280	7C080L30RA	D	5.0	LI533-H4	15	A/ A/A	✦
277	71A5237-500DP	R-HPF	85	.8	277	2	G	9	1.6	2.7	8	280	7C080L30RA	D	2.9	LI533-H4	10	A	✦
277	71A5237-500DBP	R-HPF	85	.8	277	2	H	9	1.5	2.9	8	280	7C080L30RA	D	2.9	Integral Ignitor	2	A	✦
70W Lamp, ANSI Code M139 (Philips CDM70/T6, CDM70/TD) (Pulse-Start)																			
120/ 277/347	71A52A1-500D	HX-HPF	94	1.9/ .8/.65	255	4/ 2/2	K	1	1.5	2.8	8	280	7C080L30RA	D	5.0	LI533-H4	5	A/ A/A	
70W Double-ended Lamp, ANSI Code M85 (OSI Briteline/HQI, GE MQI ARC70/TD, Philips MHN70/TD) (Pulse-Start)																			
120/277	71A5280-500D	HX-HPF	94	1.6/.7	245	4/2	K	1	1.5	2.7	8	280	7C080L30RA	D	5.5	LI522-H5	30	A/A	

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1, 6	5.1	1.00	4.50	0.25
9	4.0	0.75	3.50	0.28

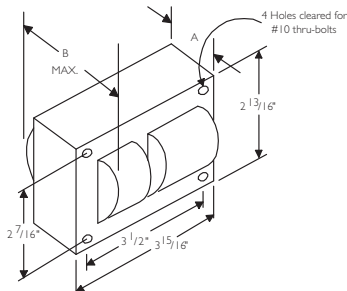
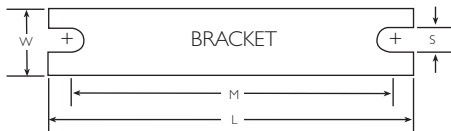


Fig. 1
(3" x 4" Core)

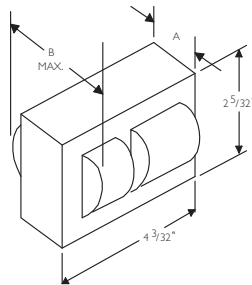


Fig. 6
(2" x 4" Core)

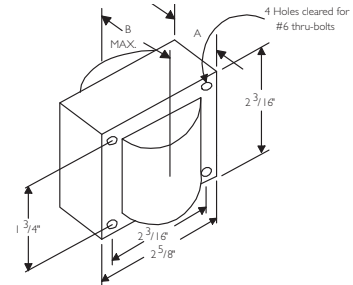


Fig. 9
(2 5/8" x 2 3/16" Reactor Core)

HID • Core & Coil
Metal Halide

60 Hz Core & Coil Ballasts

Metal Halide



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)		
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil	Total Weight (lbs)	Part Number		Max Dist To Lamp (ft)	
100W Lamp, ANSI Code M90 or M140 (Pulse-Start)																			
NOM	127/220	71A53H0-500D	HX-HPF	129	2.2/1.3	280	5/3	K	I	1.7	2.9	12	280	7C120M30RA	D	5.5	LI533-H4	20	A/B
NOM	120/208 240/347	71A5390-500D 71A5390-001D	HX-HPF	129	2.3/1.4/ 1.2/1.0	265	6/4/ 3/3	K	I	1.5	2.8	12	280	7C120M30RA	D	5.5	LI533-H4	20	B/C/ A/A
	120/ 277/347	71A53A0-500D 71A53A0-001D	HX-HPF	129	2.6/ 1.2/1.0	280	6/ 3/2	K	I	1.7	2.9	12	280	7C120M30RA	D	5.5	LI533-H4	25	B/ B/B
	480/ 120T	71A5340-500DT	HX-HPF	132	.6	260	2	K	I	1.7	2.9	10	300	7C100M33-R	D	5.5	LI533-H4	25	C
	120/277	71A5383-500D	SUPER CWA	128	1.1/1.5	222	3/2	M	I	1.6	2.8	10	330	7C100M40R	D	5.5	LI533-H4	2	C/C
✦	277	71A5337-500DP	R-HPF	118	1.1	277	3	G	9	1.7	2.8	10	280	7C100M33-R	D	3.2	LI533-H4	2	A
✦	277	71A5337-500DBP	R-HPF	118	1.1	277	3	H	9	1.8	3.1	10	280	7C100M33-R	D	3.2	Integral Ignitor	2	A

† Ordering information:

Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).

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May also be available with welded bracket, and/or without capacitor:

- 510D includes core & coil with welded bracket and dry-film capacitor.
- 510 includes core & coil with welded bracket and oil-filled capacitor.
- 600 core & coil only (no capacitor).
- 610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

- **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

✦ Canadian replacement/retrofit ballast kit indicated by bold type. Refer to page 5-9.

✦ Includes auto-reset thermal protection.

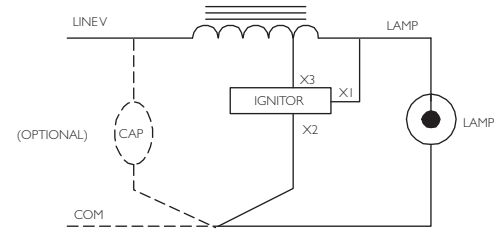


Fig. G

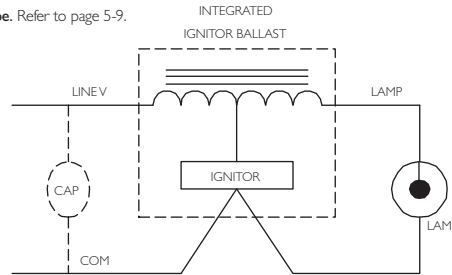


Fig. H

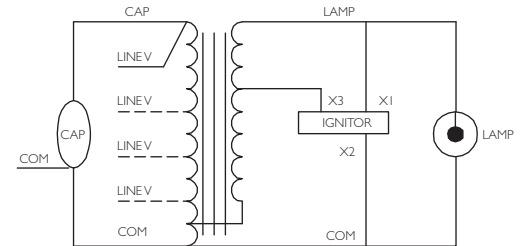


Fig. K

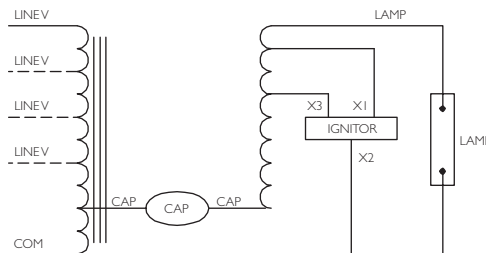


Fig. L

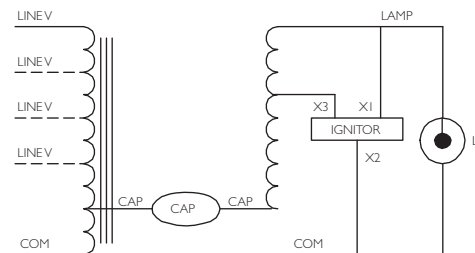


Fig. M

HID • Core & Coil Metal Halide



60 Hz Core & Coil Ballasts

Metal Halide



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
150W Lamp, ANSI Code M102 or M142 (Pulse-Start)																			
120/208 240/277	71A5492-500D 71A5492-001D	HX-HPF	185	3.7/2.1/ 1.8/1.6	265	10/5/ 5/4	K	I	2.3	3.9	16	280	7C160M30RA	D	7.0	LI533-H4	10	C/C/ C/C	NOM
480/ 120T	71A5442-500DT	HX-HPF	185	.9	270	3	K	I	2.8	4.0	16	280	7C160M30RA	D	9.0	LI533-H4	10	B	
120/ 277/347	71A54A2-500D	HX-HPF	185	3.7/ 1.6/1.3	265	10/ 4/3	K	I	2.3	3.9	16	280	7C160M30RA	D	7.0	LI533-H4	10	E/ E/E	
480/ 120T	71A5443-500DT	Super CWA	185	0.4	215	5	M	I	2.4	3.75	16	300	7C160M30RA	D	7.5	LI501-J4	5	C	New
120/208 240/277	71A5493-500D	Super CWA	190	1.9/1/ .95/.8	215	5/2.5/ 2/2	M	I	2.4	3.75	16	300	7C160M30RA	D	8.3	LI501-J4	5	D/C/ C/C	New
120/ 277/347	71A54A3-500D	Super CWA	189	1.7/ .8/7	187	5/ 2/2	L	I	2.7	4.0	22	240	7C220M24-RA	D	9.0	LI501-J4	15	C/ B/A	
277	71A5437-500DBP	Linear Reactor HPF	173	1.5	277	4	H	9	2.5	4.0	14	280	7C140M30RA	D	4.2	Integral Ignitor	2	B	+
150W Lamp, ANSI Code M81 (OSI Briteline/HQI, GE Arcstream MQI, Philips MHN-TD) (Pulse-Start)																			
120/208/ 240/277	71A5490-500D	HX-HPF	185	3.6/2.1/ 1.8/1.6	240	9/6/ 5/4	K	I	2.5	3.8	16	300	7C160M30RA	D	8.5	LI522-H5	20	C/C/ A/A	NOM

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
9	4.0	0.75	3.50	0.28

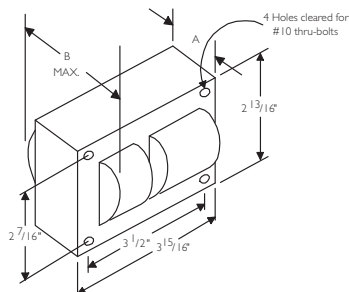
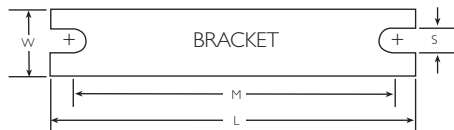


Fig. 1
(3" x 4" Core)

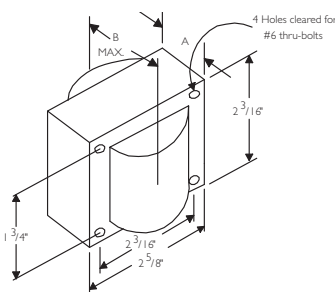


Fig. 9
(2 5/8" x 2 3/16" Reactor Core)

NOM
New
New
+
NOM
HID • Core & Coil
Metal Halide

60 Hz Core & Coil Ballasts

Metal Halide



NOM

NOM

HID • Core & Coil
Metal Halide

Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current*	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
175W Lamp, ANSI Code M57 or 150 Watt Lamp, ANSI Code MI07																		
480/120T	71A5540-001D	CWA	210	0.5	305	2	A	I	2.5	4.0	10	400	7C100M40R	D	8.5	-	-	D
480/120T	71A5540-500DT	CWA	210	0.5	305	2	A	I	2.8	4.0	10	400	7C100M40R	D	8.5	-	-	D
127/220	71A55H0-500D	CWA	210	1.8/1.1	305	5/3	A	I	2.5	3.8	10	400	7C100M40R	D	6.8	-	-	B/B
120/208 240/277	71A5590-500D	CWA	210	1.8/1.1/ .9/8	305	5/3/ 3/2	A	I	2.5	3.7	10	400	7C100M40R	D	6.8	-	-	C/D/ D/D
120/208 240/277	71A5570-001D	CWA	210	1.8/1.1/ .9/8	305	5/3/ 3/2	A	I	2.5	3.7	10	400	7C100M40R	D	6.8	-	-	C/D/ D/D
120/ 277/347	71A55A0-500D 71A55A0-001D	CWA	210	1.8/ .8/7	305	5/ 2/2	A	I	2.5	3.7	10	400	7C100M40R	D	7.0	-	-	C/ C/D
175W Lamp, ANSI Code MI37 or MI52 (Pulse-Start)																		
480/120T	71A5541-500DTEE	Super CWA	198	.04	285	2	M	2	1.8	3.4	11	370	7C110M40	D	10.0	LI533-H4	2	A
120/208 240/277	71A5591-500DEE	Super CWA	198	1.7/1.0/ .8/7	285	5/3/ 3/2	M	2	1.7	3.3	11	370	7C110M40	D	10.5	LI533-H4	2	A/A/ A/A
480/120T	71A5543-500DTEE	Super CWA	198	.04	278	2	M	1	3.1	4.2	11	370	7C110M40	D	9.4	LI533-H4	2	A
120/208 240/277	71A5593-500DEE	Super CWA	198	1.7/1.0/ .9/8	285	5/3/ 3/2	M	1	3.2	4.4	11	370	7C110M40	D	9.7	LI533-H4	2	A/A/ A/A
120/208 240/277	71A5593-001D	Super CWA	208	1.9/1.1/ .9/8	275	5/3/ 3/3	M	1	2.3	3.5	11	370	7C110M40	D	7.0	LI533-H4	2	C/C/ C/C
120/ 277/347	71A55A3-500D	Super CWA	208	1.9/ .9/7	275	5/ 3/2	M	1	2.3	3.5	11	370	7C110M40	D	7.0	LI533-H4	2	C/ C/C

† Ordering information:

Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).

- 500D includes core & coil with dry-film capacitor.
- 500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).

May also be available with welded bracket, and/or without capacitor:

- 510D includes core & coil with welded bracket and dry-film capacitor.
- 510 includes core & coil with welded bracket and oil-filled capacitor.
- 600 core & coil only (no capacitor).
- 610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. Long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

- **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

☛ Canadian replacement/retrofit ballast kit indicated by bold type. Refer to page 5-9.

⚡ Includes auto-reset thermal protection.

◆ Compact 3 x 4 core design

ⓔ Meets EISA 88% efficiency requirements.

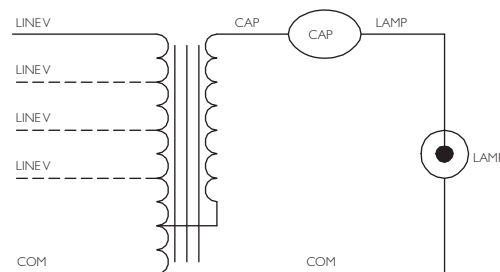


Fig. A

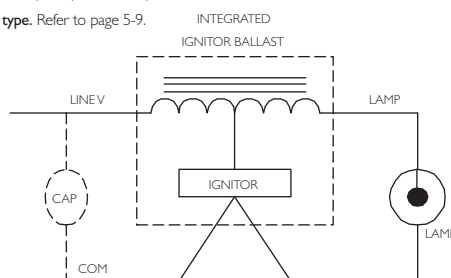


Fig. H

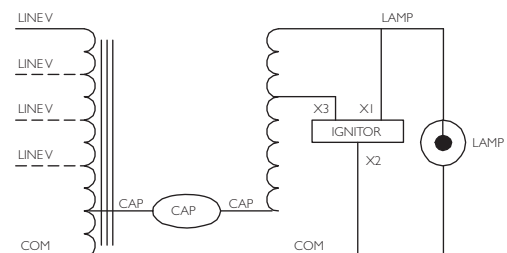


Fig. M



60 Hz Core & Coil Ballasts

Metal Halide



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current*	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
200W Lamp, ANSI Code M136 (Pulse-Start)																			
277	71A5637-500DBPEE 71A5637-001DEE	Linear Reactor HPF	218	1.3	277	4	H	10	1.0	3.1	12	280	7C120M30RA	D	6.0	Integral Ignitor	2	A	ⓔ
480/120T	71A5642-500DTEE	Super CWA	227	0.5	242	2	M	1	2.9	4.2	15	330	7C150M33	D	8.7	LI533-H4	2	A	ⓔ
120/208/240/277	71A5692-500DEE	Super CWA	227	2.2/1.3/1.1/1.0	242	6/4/3/3	M	1	3.0	4.2	15	33	7C150M33	D	8.8	LI533-H4	2	A/A/A/A	ⓔ
120/208/240/277	71A5692-001D	Super CWA	232	2.0/1.2/1.0/0.9	240	6/4/3/3	M	1	2.5	3.6	15	330	7C150M33	D	8.0	LI533-H4	2	A/B/A/A	◆
120/277/347	71A56A2-500D	Super CWA	232	2.1/9/7	235	6/3/2	M	1	2.5	3.6	15	330	7C150M33	D	8.0	LI533-H4	2	C/A/A	◆
120/208/240/277	71A5693-500DM	Super CWA	240	2.1/1.2/1.1/0.9	252	6/4/3/3	M	2	1.4	3.0	15	330	7C150M33	D	8.5	LI533-H4	2	A/A/A/A	NOM

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
2, 10	6.5	1.25	5.75	0.28

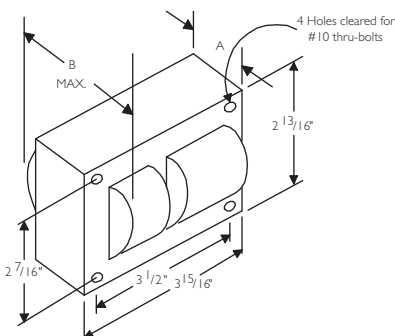
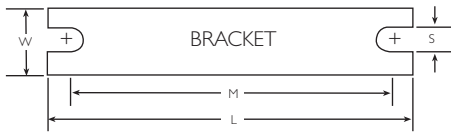


Fig. 1
(3" x 4" Core)

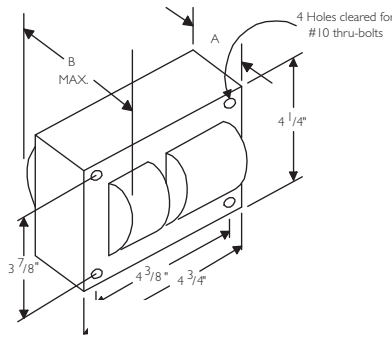


Fig. 2
(4 1/4" x 4 3/4" Core)

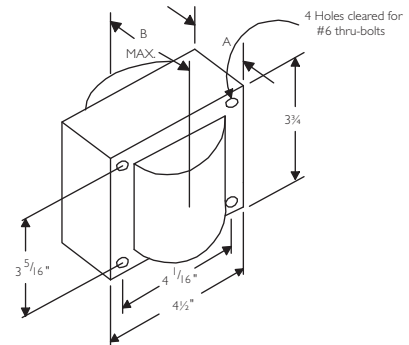


Fig. 10
(4 1/2" x 3 3/4" Reactor Core)

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Metal Halide

60 Hz Core & Coil Ballasts

Metal Halide



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current*	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
250W Lamp, ANSI Code M58																		
480/120T	71A5740-001D	CWA	295	.7	315	2	A	2	1.7	3.1	15	400	7C150P40R	D	10.0	-	-	B
480/120T	71A5740-500DT	CWA	295	.7	315	2	A	2	1.7	3.1	15	400	7C150P40R	D	10.0	-	-	B
120/208/240/277/480	71A5750-001D	CWA	290	2.6/1.5/1.4/1.1/.7	315	2	A	2	1.6	3.1	15	400	7C150P40R	D	10.0	-	-	A/A/B/A/B
120/208/240/277/480	71A5750-500DA	CWA	290	2.6/1.5/1.4/1.1/.7	310	2	A	2	1.6	3.1	15	400	7C150P40R	D	9.0	-	-	A/A/B/A/B
120/208/240/277	71A5770-001	CWA	295	2.5/1.4/1.3/1.1	300	2	A	2	1.5	3.0	15	400	7C150P40R	D	9.0	-	-	A/A/B/A
NOM 120/208/240/277	71A5790-500DM	CWA	295	2.5/1.4/1.3/1.1	300	2	A	2	1.5	3.0	15	400	7C150P40R	D	9.0	-	-	A/A/B/A
NOM 120/208/240/277	71A5790-500DA	CWA	298	2.5/1.5/1.3/1.1	300	2	A	2	1.5	3.15	15	400	7C150P40R	D	8.0	-	-	B/B/B/B
120/277/347	71A57A0-500D 71A57A0-001D	CWA	295	2.5/1.1/1.9	315	2	A	2	1.7	3.1	15	400	7C150P40R	D	10.0	-	-	A/A/A/A
120/277/347	71A57A0-500DA	CWA	295	2.5/1.1/1.9	315	2	A	2	1.7	3.1	15	400	7C150P40R	D	9.0	-	-	A/A/A/A
NOM 127/220	71A57H0-500DM	CWA	295	2.6/1.5	300	2	A	2	1.5	3.0	15	400	7C150P40R	D	9.0	-	-	A/B
480/120T	71A5741-500DT 71A5741-001D	CWA	298	.7	300	2	A	1	3.0	4.2	15	400	7C150P40R	D	9.0	-	-	H
120/208/240/277	71A5771-001D	CWA	294	2.6/1.5/1.3/1.1	300	2	A	1	3.0	4.2	15	400	7C150P40R	D	9.0	-	-	C/C/D/D
120/208/240/277	71A5791-500D	CWA	294	2.6/1.5/1.3/1.1	300	2	A	1	3.0	4.2	15	400	7C150P40R	D	9.0	-	-	C/C/D/D

† Ordering information:
Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.
Original equipment ballasts – typically ordered with capacitor (as shown).
 -500D includes core & coil with dry-film capacitor.
 -500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).
 May also be available with welded bracket, and/or without capacitor:
 -510D includes core & coil with welded bracket and dry-film capacitor.
 -510 includes core & coil with welded bracket and oil-filled capacitor.
 -600 core & coil only (no capacitor).
 -610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

• **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

• Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.

• Includes auto-reset thermal protection.

• Compact 3 x 4 core design

• Meets EISA 88% efficiency requirements.

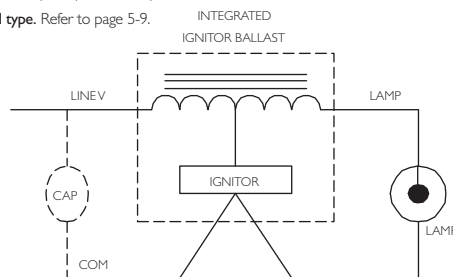


Fig. H

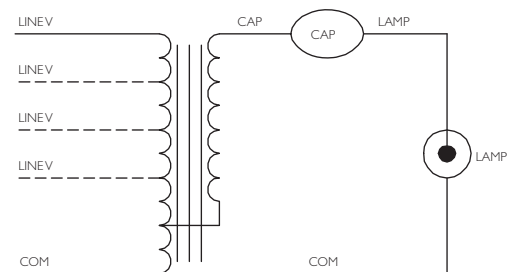


Fig. A

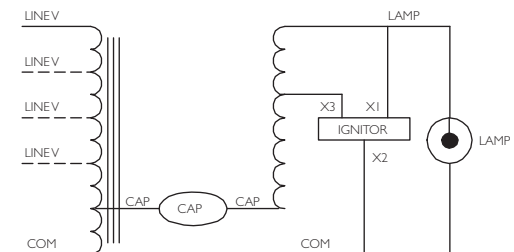


Fig. M



60 Hz Core & Coil Ballasts

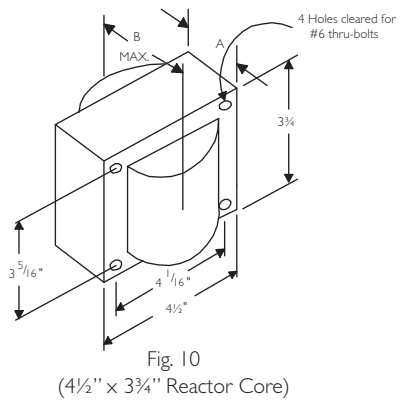
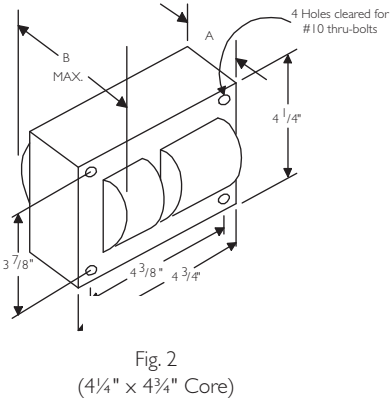
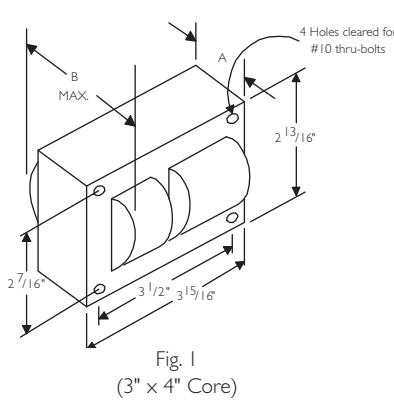
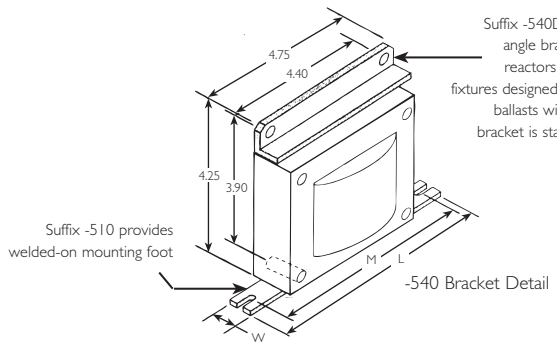
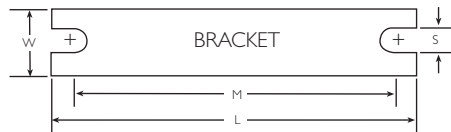
Metal Halide



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
250W Lamp, ANSI Code M138 or M153 (Pulse Start)																			
277	71A5737-500DBPEE 71A5737-001DEE	Linear Reactor HPF	272	1.5	277	4	H	10	1.3	3.2	14	280	7C140M30RA	D	6.5	Integral Ignitor	5	A	ⓔ
480/120T	71A5742-500DTEE	Super CWA	283	0.7	290	2	M	2	2.2	4.0	17	340	7C170P40R	D	11.0	LI533-H4	2	A	ⓔ
120/208/240/277/480	71A5752-500DAEE	Super CWA	275	2.4/1.4/ 1.2/1.1/ 0.6	280	8/5/ 5/3/ 2	M	2	2.2	4.0	17	340	7C170P40R	D	11.5	LI533-H4	2	A/A/ A/A/ A	ⓔ
120/208/240/277	71A5792-500DEE	Super CWA	283	2.6/1.5/ 1.3/1.1	280	8/5/ 5/3	M	2	1.7	3.4	17	340	7C170P40R	D	9.5	LI533-H4	2	A/A/ A/A	ⓔ
120/208/240/277	71A5792-500DA 71A5792-001D	Super CWA	291	2.5/1.4/ 1.3/1.1	275	8/5/ 5/3	M	2	1.5	3.1	17	340	7C170P40R	D	9.5	LI533-H4	5	A/A/ A/B	
120/208/240/278	71A5792-500DMA	Super CWA	291	2.5/1.5/ 1.3/1.1	275	8/5/ 5/3	M	2	1.5	3.1	17	340	7C170P40R	D	9.5	LI533-H4	2	A/A/ A/B	NOM
120/277/347	71A57A2-500D 71A57A2-001D	Super CWA	291	2.5/ 1.1/0.9	272	8/ 3/3	M	2	1.5	3.1	17	340	7C170P40R	D	9.5	LI533-H4	5	A/ A/A	ⓔ

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
2, 10	6.5	1.25	5.75	0.28



HID • Core & Coil
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60 Hz Core & Coil Ballasts

Metal Halide







Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current*	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
320W Lamp, ANSI Code M132 or M154 or M170 (Pulse-Start)																		
ⓔ 277	71A5837-500DBPEE 71A5837-001DEE	Linear Reactor HPF	342	1.9	277	5	H	10	1.7	3.8	17.5	300	7C175M30RA	D	9.5	Integral Ignitor	15	A
ⓔ 480/120T	71A5842-500DTAEE	Super CWA	363	0.8	275	5	M	2	2.2	4.0	21	345	7C210P40R	D	11.0	LI533-H4	2	D
ⓔ 120/208/240/277/480	71A5852-500DAEE	Super CWA	363	3.3/1.9/1.7/1.4/0.8	290	10/7/5/5/5	M	2	2.2	4.2	21	345	7C210P40R	D	11.8	LI533-H4	15	A/B/A/A/A
ⓔ 120/208/240/277	71A5892-500DAEE	Super CWA	363	3.3/1.9/1.7/1.4	285	8/6/5/3	M	2	2.2	4.2	21	345	7C210P40R	D	11.0	LI533-H4	2	A/A/A/A/A
480/120T	71A5842-001DT	Super CWA	368	0.8	270	5	M	2	1.8	3.7	21	345	7C210P40R	D	11.0	LI533-H4	2	D
NOM 120/208/240/277	71A5892-500DMA 71A5892-001D	Super CWA	368	3.3/1.9/1.7/1.4	270	8/6/5/3	M	2	1.8	3.7	21	345	7C210P40R	D	11.0	LI533-H4	2	B/B/B/B
120/277/347	71A58A2-500DA	Super CWA	368	3.3/1.4/1.1	280	8/4/3	M	2	1.8	3.7	21	345	7C210P40R	D	10.0	LI533-H4	2	C/C/C
350W Lamp, ANSI Code M131 or M171 (Pulse-Start)																		
ⓔ 277	71A5937-500DBPEE 71A5937-001DEE	Linear Reactor HPF	375	2.1	277	5	H	10	1.9	4.0	20	280	7C200P30RA	D	10.0	Integral Ignitor	2	A
ⓔ 480/120T	71A5942-500DTAEE	Super CWA	397	0.9	280	3	M	2	2.2	4.1	22.5	345	7C225P40	D	11.0	LI533-H4	2	B
ⓔ 120/208/240/277/480	71A5953-500DAEE	Super CWA	397	3.4/2.0/1.7/1.5/0.9	285	10/7/5/5/5	M	2	2.2	4.1	22.5	345	7C225P40	D	11.2	LI533-H4	2	B/C/B/B/B
ⓔ 120/208/240/277	71A5993-500DAEE	Super CWA	397	3.4/2.0/1.7/1.5	270	10/7/5/5	M	2	2.2	4.1	22.5	345	7C225P40	D	11.6	LI533-H4	2	D/C/C/C
NOM 120/208/240/277	71A5993-500DMA 71A5993-001D	Super CWA	400	3.4/2.0/1.7/1.5	270	10/7/5/5	M	2	1.8	3.7	22.5	345	7C225P40	D	11.0	LI533-H4	2	D/C/C/C
120/277/347	71A59A3-500D	Super CWA	400	3.4/1.5/1.2	280	10/5/3	M	2	1.8	3.7	22.5	345	7C225P40	D	10.5	LI533-H4	2	D/C/C

HID • Core & Coil Metal Halide

- † Ordering information:
Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.
Original equipment ballasts – typically ordered with capacitor (as shown).
 -500D includes core & coil with dry-film capacitor.
 -500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).
 May also be available with welded bracket, and/or without capacitor:
 -510D includes core & coil with welded bracket and dry-film capacitor.
 -510 includes core & coil with welded bracket and oil-filled capacitor.
 -600 core & coil only (no capacitor).
 -610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

- **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

- NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).
 Canadian replacement/retrofit ballast kit indicated by bold type. Refer to page 5-9.
 Includes auto-reset thermal protection.
 Compact 3 x 4 core design
 Meets EISA 88% efficiency requirements.

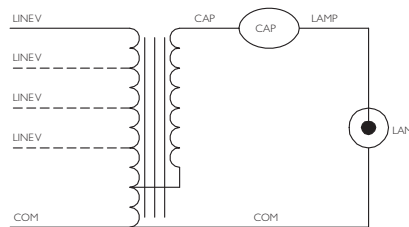


Fig. A

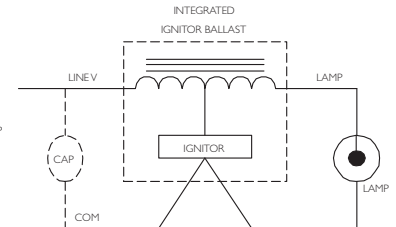


Fig. H

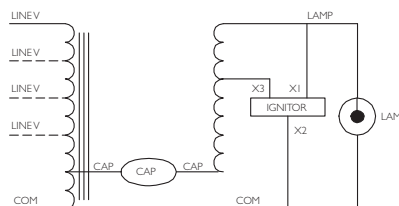


Fig. M

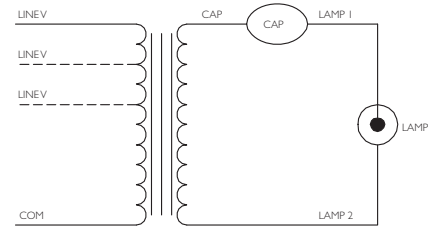


Fig. P



60 Hz Core & Coil Ballasts

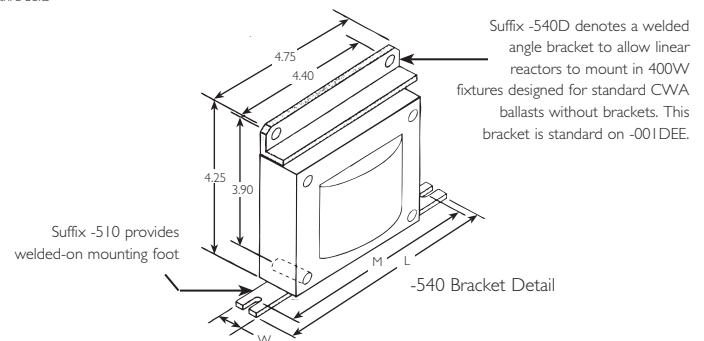
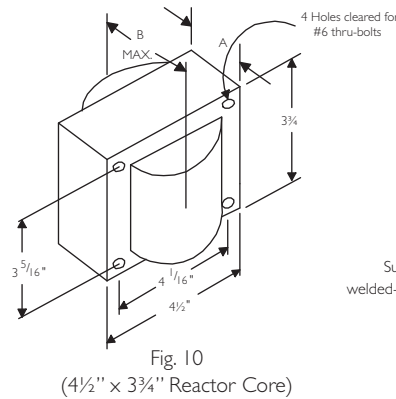
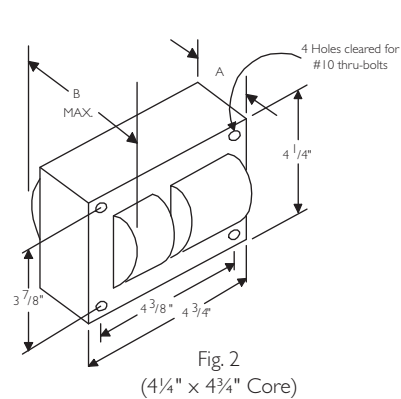
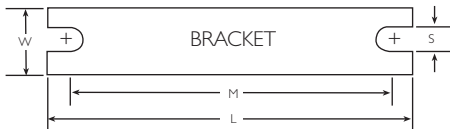
Metal Halide



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
400W Lamp, ANSI Code M59																			
480/120T	71A6041-500DT	CWA	462	1.0	300	4	A	2	2.0	4.0	24	400	7C240P40R	D	12.0	-	-	E	
NOM	480/120T	71A6041-500DT	462	1.0	300	4	A	2	2.0	4.0	24	400	7C240P40R	D	12.0	-	-	E	
	71A6041-500DTA	2.2							11.0						E				
	120/208/240/277/480	71A6051-001D	460	4.1/2.3/2.0/1.7/1.0	300	10/7/5/5/3	A	2	2.3	4.0	24	400	7C240P40R	D	14.0	-	-	D/C/D/C/D	
	120/208/240/277	71A6071-001D	458	4.0/2.3/2.0/1.7	300	10/7/5/5	A	2	2.2	4.0	24	400	7C240P40R	D	11.5	-	-	D/E/D/E	
NOM	120/208/240/277	71A6091-500DA	458	4.0/2.3/2.0/1.7	300	10/7/5/5	A	2	2.0	3.9	24	400	7C240P40R	D	11.5	-	-	D/E/D/E	
	120/277/347	71A60A1-500D 71A60A1-001D	460	4.0/1.7/1.4	300	10/5/4	A	2	2.0	4.0	24	400	7C240P40R	D	12.0	-	-	D/D/D/D	
NOM	127/220	71A60H1-500DM	458	3.9/2.2	300	10/7	A	2	2.0	3.8	24	400	7C240P40R	D	11.5	-	-	D/D	
	120/208/240	71A60E6-500DM	CWI	465	4.2/2.5/2.1	320	10/7/5	P	2	2.4	4.0	20	425	MD2006-100	O	14.0	-	-	E/D/D

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
2, 10	6.5	1.25	5.75	0.28



HID • Core & Coil
Metal Halide

60 Hz Core & Coil Ballasts

Metal Halide



	Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
									Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
400W Lamp, ANSI Code MI35 or MI55 or MI72 (Pulse-Start)																			
⊕	277	71A6037-500DBPEE 71A6137-001DEE ⊕	Linear Reactor HPF	425	2.1	277	5	H	10	1.6	3.8	20	280	7C200P30RA	D	9.0	Integral Ignitor	2	A
⊕	480/120T	71A6042-500DTAEE	Super CWA	452	1.0	270	3	M	2	2.1	3.9	26	330	7C260P33R	D	14.5	LI533-H4	10	D
⊕	120/208/240/277/480	71A6052-500DAEE	Super CWA	454	3.8/2.2/1.9/1.7/1.0	275	10/7/5/5/3	M	2	2.2	4.3	26	330	7C260P33R	D	14.0	LI533-H4	10	B/D/D/B/D
⊕	120/208/240/277	71A6092-500DAEE 71A6092-001DEE	Super CWA	452	3.8/2.2/1.9/1.7	270	10/7/5/5	M	2	2.1	4.1	26	330	7C260P33R	D	13.2	LI533-H4	10	C/D/D/D
	480/120T	71A6042-001D	Super CWA	452	1.0	270	3	M	2	2.1	3.9	26	330	7C260P33R	D	14.5	LI533-H4	10	D
NOM	120/208/240/277	71A6092-500DM1 71A6092-001D	Super CWA	452	3.8/2.2/1.9/1.7	265	10/7/5/5	M	2	1.8	3.7	26	330	7C260P33R	D	11.0	LI533-H4	10	D/C/D/D
	120/277/347	71A60A2-500DA	Super CWA	450	3.8/1.7/1.4	270	10/5/4	M	2	1.8	3.7	26	330	7C260P33R	D	11.0	LI533-H4	10	C/C/C
450W Lamp, ANSI Code MI44 (Pulse-Start)																			
⊕	277	71A6337-500DBPEE	Linear Reactor HPF	480	2.4	277	7	H	10	1.9	4.0	22.5	280	7C225P30RA	D	9.5	Integral Ignitor	2	A
⊕	480/120T	71A6343-500DTEE	Super CWA	514	1.1	267	3	M	2	2.4	4.2	26.5	360	7C265P40R	D	14.0	LI533-H4	5	D
⊕	120/208/240/277	71A6393-500DEE	Super CWA	508	4.3/2.5/2.2/1.9	257	10/8/5/5	M	2	2.3	3.9	26.5	360	7C265P40R	D	13.5	LI533-H4	5	C/C/C/C
	120/277/347	71A63A3-500D	Super CWA	505	4.3/1.9/1.5	268	10/5/4	M	2	2.4	4.2	26.5	360	7C265P40R	D	14.0	LI533-H4	5	D/D/D

HID • Core & Coil Metal Halide

† Ordering information:
Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.
Original equipment ballasts – typically ordered with capacitor (as shown).
 -500D includes core & coil with dry-film capacitor.
 -500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).
 May also be available with welded bracket, and/or without capacitor:
 -510D includes core & coil with welded bracket and dry-film capacitor.
 -510 includes core & coil with welded bracket and oil-filled capacitor.
 -600 core & coil only (no capacitor).
 -610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. Long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

• **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

⊕ Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.

⊕ Includes auto-reset thermal protection.

◆ Compact 3 x 4 core design

⊕ Meets EISA 88% efficiency requirements.

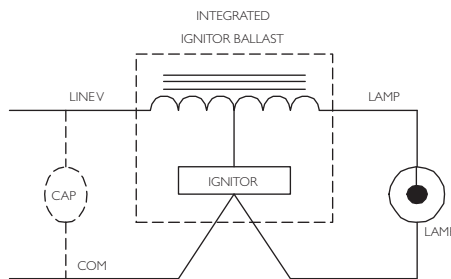


Fig. H

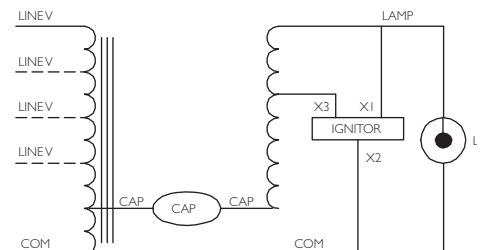


Fig. M



60 Hz Core & Coil Ballasts

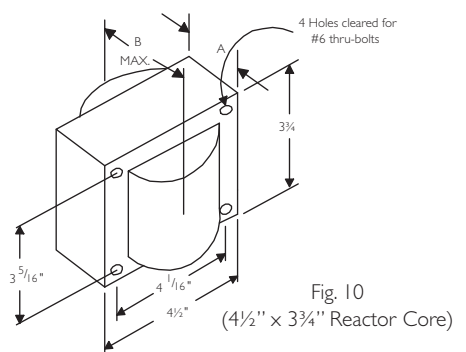
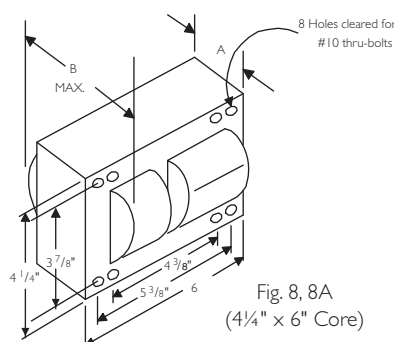
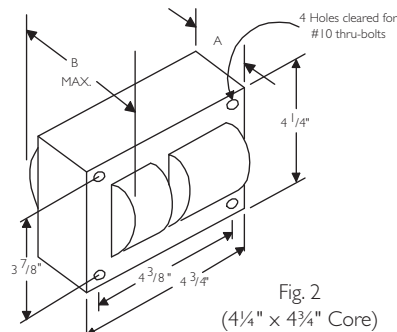
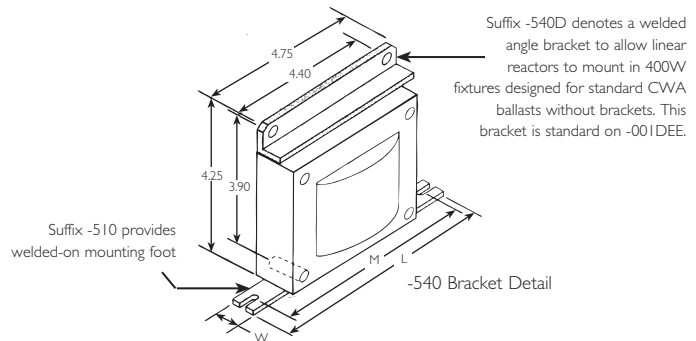
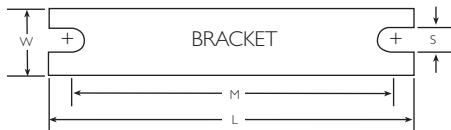
Metal Halide



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max [*] Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (Pg 5-4)	
											Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	Class H (180°C)	Philips Advance Class N (200°C)
								Fig	A	B									
750W Lamp, ANSI Code M149 (Pulse-Start)																			
120/208/240/277/480	71A6452-001D	Super CWA	818	7/4/3.5/3/2	355	20/10/10/8/5	M	8	2.4	4.3	28	400	7C280S40	D	18.0	LI573-H5	15	D/C/D/D/C	A/A/A/A
120/208/240	71A64E2-500D	Super CWA	812	7.0/4.0/3.5	355	20/10/10	M	8	2.2	4.3	28	400	7C280S40	D	17.0	LI573-H5	15	D/C/D	A/A/A
277/347/480	71A64F2-001D	Super CWA	818	3.0/2.5/1.7	355	8/7/5	M	8	2.3	4.3	28	400	7C280S40	D	17.0	LI573-H5	15	E/E/E	A/A/A/A
277/347/480/120T	71A64F2-500DT	Super CWA	818	3.0/2.5/1.7	355	8/7/5	M	8	2.3	4.3	28	400	7C280S40	D	17.0	LI573-H5	15	E/E/E	A/A/A/A
♦ 120/208/240/277	71A6490-500D	Super CWA	820	7.0/4.0/3.5/3.0	340	20/10/10/10	M	2	3.0	4.9	28	400	7C280S40	D	17.5	LI573-H5	10	D/D/D/D	A/A/A/A
♦ 347/480/120T	71A64F0-600T	Super CWA	820	2.5/1.7	340	7/5	M	2	3.0	4.9	28	400	7C280S40	D	17.5	LI573-H5	10	E/E	A/A
875W Lamp, ANSI Code M166 (Pulse-Start)																			
♦ 120/208/240/277	71A6498-500	Super CWA	940	7.8/4.3/3.9/3.4	415	20/10/10/8	M	2	3.0	5.0	21	480	MD2100-030	O	17.5	LI572-H5★	5	E/E/E/E	A/A/A/A
♦ 347/480/120T	71A64F8-500T	Super CWA	945	2.8/2.0	415	7/5	M	2	3.0	5.0	21	480	MD2100-030	O	17.5	LI572-H5★	5	E/E	A/A

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
2, 10	6.5	1.25	5.75	0.28
8	7.8	2.75	6.13	0.25



60 Hz Core & Coil Ballasts


Metal Halide



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max* Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (Pg 5-4)		
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	Class H (180°C)	Philips Advance Class N (200°C)	
1000W Lamp, ANSI Code M47																				
NOM	220	71A65J2-500M	CWA	1080	4.9	430	12	A	8	2.6	4.5	24	480	MD2409-100	O	21.0	-	-	B	A
NOM	480/120T	71A6542-001	CWA	1080	2.2	430	6	A	8	2.6	4.5	24	480	MD2409-100	O	21.0	-	-	D	A
	480/120T	71A6542-500T	CWA	1080	2.2	430	6	A	8	2.6	4.5	24	480	MD2409-100	O	21.0	-	-	D	A
	480/120T	71A6542-500TA	CWA	1080	2.3	430	6	A	8	3.1	5.0	24	480	MD2409-100	O	21.0	-	-	D	A
	120/208/240/277	71A6592-500	CWA	1080	9.0/5.2/4.5/3.9	430	20/15/10/10	A	8	2.6	4.5	24	480	MD2409-100	O	21.0	-	-	D/B/B	A/A/A
	120/208/240/277	71A6592-500A	CWA	1080	9.0/5.2/4.5/3.9	430	20/15/10/10	A	8	3.1	5.0	24	480	MD2409-100	O	20.0	-	-	D/B/B	A/A/A
	120/208/240/277	71A6572-001	CWA	1080	9.0/5.2/4.5/3.9	430	20/15/10/10	A	8	2.6	4.5	24	480	MD2409-100	O	21.0	-	-	D/B/B	A/A/A
	120/208/240/277/480	71A6552-500 71A6552-001	CWA	1080	9.0/5.6/4.7/4.1/2.4	430	22/15/12/10/6	A	8	3.0	4.7	24	480	MD2409-100	O	22.0	-	-	D/D/D/C	A/A/A/A
	120/277/347	71A65A2-500 71A65A2-001	CWA	1080	9.0/3.9/3.2	430	20/10/8	A	8	2.8	4.5	24	480	MD2409-100	O	21.0	-	-	D/C/C	A/A/A
NOM	120/208/240/277	71A6590-500	CWA	1070	9.0/5.2/4.5/3.9	415	20/15/10/10	A	2	3.4	5.3	24	480	MD2409-100	O	19.0	-	-	D/D/D/D	A/A/A/A
	347/480/120T	71A65F0-600T	CWA	1070	3.1/2.2	415	8/6	A	2	3.4	5.3	24	480	MD2409-100	O	19.0	-	-	D/D	A/A
	208/240/120T	71A65E6-500DT	CWI	1080	5.3/4.8	440	15/12	P	8	3.5	5.3	20	560	7C400P30-R (Two in Series)	D	25.0	-	-	C/D	A/A
1000W Lamp, ANSI Code M141 (Pulse-Start)																				
	480	71A6543-500A	Super CWA	1080	2.3	430	6	M	8	3.1	5.0	24	480	MD2409-000	O	21.0	LI572-H5★	5	D	A
	120/208/240/277/480	71A6553-500	Super CWA	1080	9.1/5.6/4.7/4.1/2.4	430	22/15/12/10/6	M	8	3.0	4.7	24	480	MD2409-000	O	22.0	LI572-H5★	5	D/B/B/B	A/A/A/A
	120/208/240/277	71A6593-500 71A6593-001	Super CWA	1080	9.0/5.2/4.5/3.9	430	20/15/10/10	M	8	2.8	4.5	24	480	MD2409-000	O	21.0	LI571-H5★	5	D/B/B/B	A/A/A/A
	347/480/120T	71A65F3-500T	Super CWA	1075	3.2/2.4	430	8/6	M	8	2.8	4.5	24	440	MD2409-000	O	21.0	LI571-H5★	5	D/D	A/A
	120/208/240/277	71A6591-500	Super CWA	1070	9.0/5.2/4.5/3.9	415	20/15/10/10	M	2	3.4	5.3	24	480	MD2409-000	O	19.0	LI572-H5★	5	D/D/D/D	A/A/A/A
	347/480/120T	71A65F1-500T	Super CWA	1070	3.1/2.2	415	8/6	M	2	3.4	5.3	24	480	MD2409-000	O	19.0	LI572-H5★	5	D/D	A/A

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† Ordering information:
Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.
Original equipment ballasts – typically ordered with capacitor (as shown).
 -500D includes core & coil with dry-film capacitor.
 -500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).
 May also be available with welded bracket, and/or without capacitor:
 -510D includes core & coil with welded bracket and dry-film capacitor.
 -510 includes core & coil with welded bracket and oil-filled capacitor.
 -600 core & coil only (no capacitor).
 -610 core & coil with welded bracket (no capacitor).

★ **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.
NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).
 Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.
 ♦ Special compact 4¼ x 4¾ core design

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.



60 Hz Core & Coil Ballasts

Metal Halide



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max* Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (Pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	Class H (180°C)	Phillips Advance Class N (200°C)
1500W Lamp, ANSI Code M48																			
480	71A6742-610 71A6742-001	CWA	1625	3.4	450	10	A	8a	4.2	6.2	32	525	MD3202-100	○	31.0	-	-	E	A
480/120T	71A6742-500A	CWA	1610	3.5	460	10	A	8a	4.7	6.7	32	525	MD3202-100	○	30.0	-	-	E	A
NOM 120/208 240/277	71A6772-001	CWA	1605	13.5/7.8/ 6.8/5.9	450	30/25/ 20/15	A	8a	4.1	6.1	32	525	MD3202-100	○	30.0	-	-	G/E/ E/G	C/A/ A/C
120/208 240/277	71A6792-500	CWA	1605	13.5/7.8/ 6.8/5.9	450	30/25/ 20/15	A	8a	4.1	6.1	32	525	MD3202-100	○	30.0	-	-	G/E/ E/G	C/A/ A/C
120/208 240/277	71A6792-500A	CWA	1610	13.5/7.8/ 6.8/5.9	460	30/25/ 20/15	A	8a	4.7	6.7	32	525	MD3202-100	○	30.0	-	-	G/E/ E/G	C/A/ A/C
120/ 277/347	71A67A2-600 71A67A2-001	CWA	1615	13.5/ 5.9/4.8	450	30/ 15/15	A	8a	4.1	6.1	32	525	MD3202-100	○	30.0	-	-	G/ G/G	C/ C/C
1650W Lamp, ANSI Code MI 12																			
347/480	71A68F0-600	CWA	1770	5.5/4.0	465	15/10	A	8a	4.4	6.5	34	550	2 Capacitor Set: MD1701-200 (2) 17 MFD Caps [Connected in Parallel]	○	32.0	-	-	I/J	E/F

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
2	6.5	1.25	5.75	0.28
8	7.8	2.75	6.13	0.25
8a	7.8	4.50	6.75	0.31

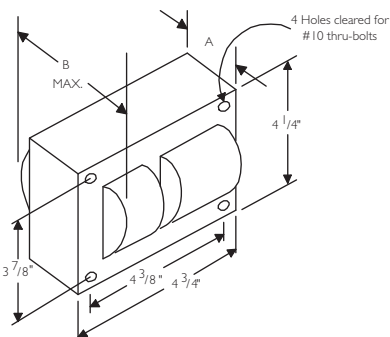
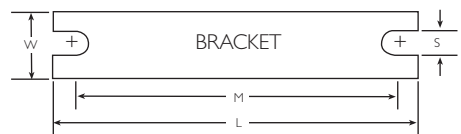


Fig. 2 (4 1/4" x 4 3/4" Core)

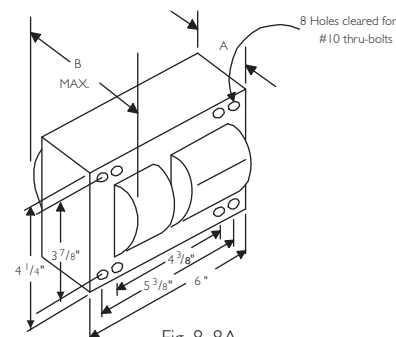


Fig. 8, 8A (4 1/4" x 6" Core)

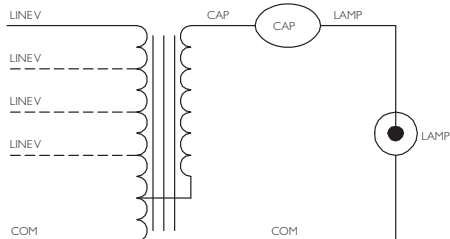


Fig. A

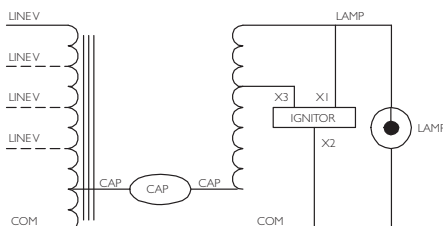


Fig. M

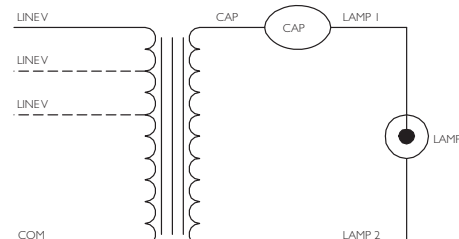


Fig. P

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High Pressure Sodium



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor ^{††} (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
35W Lamp, ANSI Code S76																		
120	71A7707-600	R-NPF	46	1.4	120	3	G	9	.7	1.8	-	-	-	-	1.3	LI551-H4	2	A
	71A7707-500D	R-HPF		.8		2					14	120	7C140L12RA	D				
120	71A7707-600B	R-NPF	46	1.4	120	3	H	9	.7	2.2	-	-	-	1.3	Integral Ignitor	2	A	
	71A7707-001DB	R-HPF		.8		2					14	-120	7C140L12RA					D

- [†] Ordering information:
Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.
Original equipment ballasts – typically ordered with capacitor (as shown).
 -500D includes core & coil with dry-film capacitor.
 -500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).
 May also be available with welded bracket, and/or without capacitor:
 -510D includes core & coil with welded bracket and dry-film capacitor.
 -510 includes core & coil with welded bracket and oil-filled capacitor.
 -600 core & coil only (no capacitor).
 -610 core & coil with welded bracket (no capacitor).

- ^{††} Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.
- **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.
- NOM** Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).
- Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.

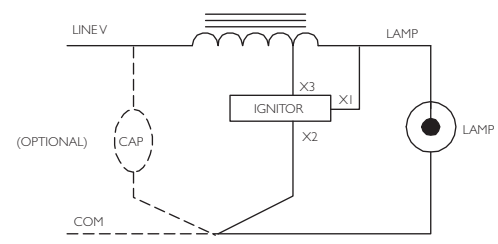


Fig. G

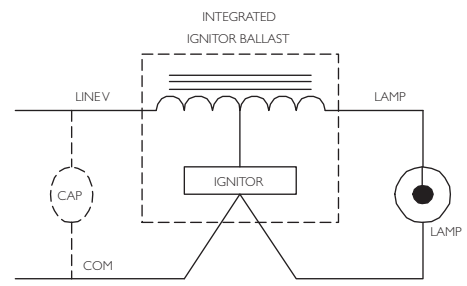


Fig. H

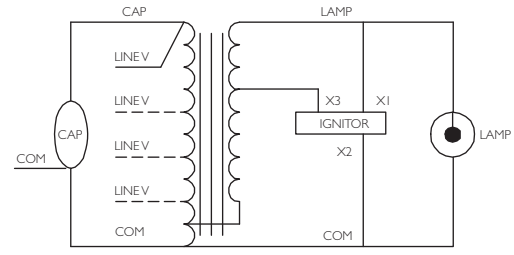


Fig. K

HID • Core & Coil HPS



60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor ^{††} (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
											Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
								Fig	A	B									
50W Lamp, ANSI Code S68																			
120	71A7807-610 71A7807-500D	R-NPF R-HPF	62	1.8 1.0	120	5 3	G	9	1.0	2.3	- 20	- 120	7C200M12RA	- D	1.8 2.0	LI551-H4	2	A	
120	71A7807-600B 71A7807-001DB	R-NPF R-HPF	62	1.8 1.0	120	5 3	H	9	1.0	2.7	- 20	- 120	7C200M12RA	- D	1.8 2.0	Integral Ignitor	2	A	
120/277	71A7801-500D 71A7801-001D	HX-HPF	66	1.0/5	125	3/1	K	1	1.0	2.2	5	300	7C050L33RA	D	3.5	LI551-H4	2	A/A	
120/208/ 240/277	71A7891-500D 71A7891-001D	HX-HPF	66	1.0/57/ .5/45	125	3/2/ 2/1	K	1	1.0	2.2	5	300	7C050L33RA	D	3.5	LI551-H4	2	A/A A/A	

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
9	4.0	0.75	3.50	0.28

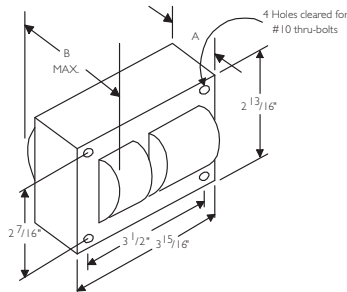
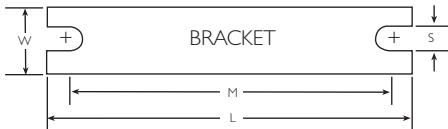


Fig. 1
(3" x 4" Core)

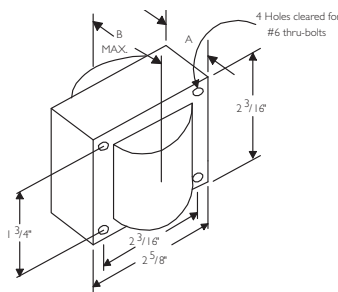


Fig. 9
(2 5/8" x 2 3/16" Reactor Core)

HID • Core & Coil
HPS

60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog † Number	Circuit Type	Input Watts	Max Input Current *	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
70W Lamp, ANSI Code S62																			
NOM	120	71A7907-600 71A7907-500D	R-NPF R-HPF	86	2.1 1.3	120	8 3	G	9	1.3	2.5	- 28	- 120	7C280M12RA	- D	2.0	LI551-H4	2	A
	120	71A7907-600B 71A7907-001DB	R-NPF R-HPF	86	2.1 1.3	120	8 3	H	9	1.3	2.9	- 28	- 120	7C280M12RA	- D	2.0	Integral Ignitor	2	A
	220	71A79J1-500D	HX-HPF	91	.8	120	2	K	1	1.5	2.8	7	300	7C070L30RA	D	5.5	LI551-H4	2	A
	480	71A7941-500D	HX-HPF	93	.4	120	2	K	1	1.9	3.2	7	300	7C070L30RA	D	6.5	LI551-H4	2	A
	120/208 240/277	71A7991-500D	HX-HPF	91	1.4/9 .8/7	120	5/3/ 2/2	K	1	1.5	3.1	7	300	7C070L30RA	D	5.5	LI551-H4	2	B/C/ B/C
	120/208 240/277	71A7971-001D	HX-HPF	91	1.4/9 .8/7	120	5/3/ 2/2	K	1	1.5	3.1	7	300	7C070L30RA	D	5.5	LI551-H4	2	B/C/ B/C
	120/ 277/347	71A79A1-500D 71A79A1-001D	HX-HPF	93	1.4/ .7/6	120	5/ 2/2	K	1	1.5	3.1	7	300	7C070L30RA	D	5.5	LI551-H4	2	A/ B/A
NOM	127/220	71A79H8-500DMA	CWA	95	.8/5	105	2/2	M	1	1.9	3.2	32.5	300	7C325P30-RA	D	5.5	LI551-J4	2	A/D
NOM	120/277	71A7988-500D	CWA	95	.9/4	105	3/1	M	1	1.9	3.2	32.5	300	7C325P30-RA	D	5.5	LI551-J4	2	A/D
	120/ 208/240	71A79E6-500D	CWI	95	.9/ .5/5	110	3/ 2/2	V	1	1.6	2.9	24	300	7C240P30RA	D	5.8	LI551-J4	2	C/ C/D

† Ordering information:

Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).

- 500D includes core & coil with dry-film capacitor.
- 500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).

May also be available with welded bracket, and/or without capacitor:

- 510D includes core & coil with welded bracket and dry-film capacitor.
- 510 includes core & coil with welded bracket and oil-filled capacitor.
- 600 core & coil only (no capacitor).
- 610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. Long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

- **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

Canadian replacement/retrofit ballast kit indicated by bold type. Refer to page 5-9.

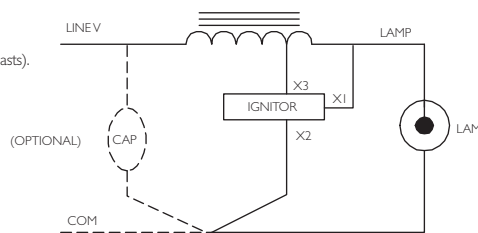


Fig. G

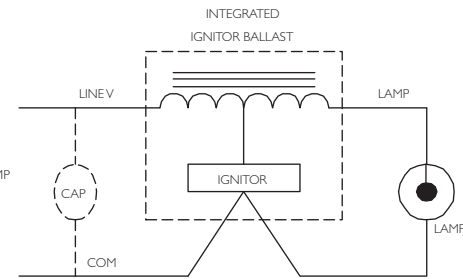


Fig. H

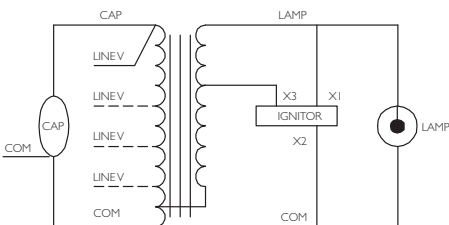


Fig. K

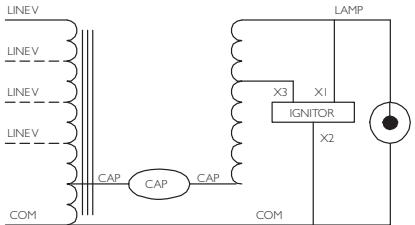


Fig. M

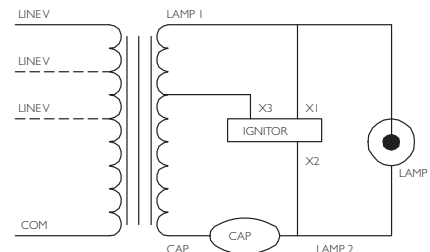


Fig. V



60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current *	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
100W Lamp, ANSI Code S54																		
120	71A8007-500D	R-HPF	115	1.8	120	5	G	9	1.5	2.7	36	120	7C360M12RA	D	2.8	LI551-H4	2	A
120	71A8007-500DB 71A8007-001DB	R-HPF	115	1.8	120	5	H	9	1.5	2.7	36	120	7C360M12RA	D	2.8	Integral Ignitor	2	A
220	71A80J1-500D	HX-HPF	130	1.2	120	3	K	1	2.0	3.3	10	280	7C100M30RA	D	7.2	LI551-H4	2	B
480	71A8041-500D 71A8041-001D	HX-HPF	130	.6	120	3	K	1	2.3	3.6	10	280	7C100M30RA	D	7.5	LI551-H4	2	E
120/208/ 240/277	71A8091-500D	HX-HPF	130	2.2/1.3/ 1.1/.9	120	7/5/ 3/3	K	1	2.0	3.6	10	280	7C100M30RA	D	7.2	LI551-H4	2	D/F/ D/D
120/208/ 240/277	71A8071-001D	HX-HPF	130	2.2/1.3/ 1.1/.9	120	7/5/ 3/3	K	1	2.0	3.6	10	280	7C100M30RA	D	7.2	LI551-H4	2	D/F/ D/D
120/ 277/347	71A80A1-500D 71A80A1-001D	HX-HPF	130	2.2/ .9/.7	120	7/ 3/3	K	1	2.3	3.6	10	280	7C100M30RA	D	7.5	LI551-H4	2	C/ C/D
480/120T	71A8048-500DT	CWA	138	0.3	115	1	M	1	2.0	3.3	34	170	7C340P24RA	D	7.5	LI551-J4	5	E
120/277	71A8088-500D	CWA	138	1.2/.5	115	3/2	M	1	2.0	3.3	34	170	7C340P24RA	D	7.5	LI551-J4	5	F/F
NOM 127/220	71A80H8-500DMA	CWA	138	1.1/.7	115	3/2	M	1	2.4	3.7	34	170	7C340P24RA	D	7.5	LI551-J4	5	E/D
NOM 230	71A80J8-500DM	CWA	136	0.7	118	2	M	1	2.0	3.3	34	170	7C350P24RA	D	7.5	LI551-J4	5	E
120/ 208/240	71A80E6-500D	CWI	130	1.2/ .7/.6	110	3/ 2/2	V	1	2.1	3.4	35	170	7C350P24RA	D	6.8	LI551-J4	2	C/ C/B

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
9	4.0	0.75	3.50	0.28

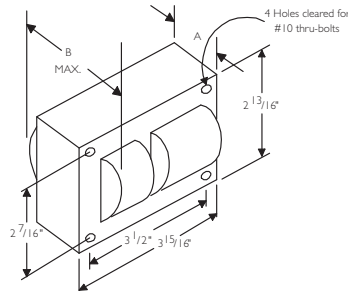
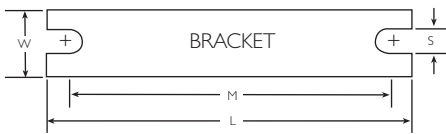


Fig. 1
(3" x 4" Core)

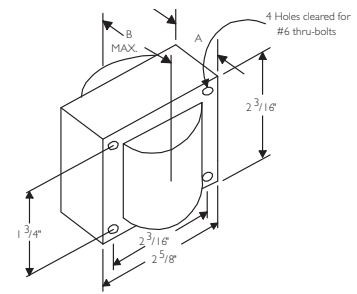


Fig. 9
(2 5/8" x 2 3/16" Reactor Core)

HID • Core & Coil
HPS

60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max Input Current*	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	
150W Lamp, ANSI Code S55 (55V Arc Tube)																		
120	71A8107-600 71A8107-500D	R-NPF R-HPF	170	4.5 2.4	120	15 8	G	9	2.0	3.3	- 55	- 120	- 7C550P12RA	- D	3.5 4.0	LI551-H4	2	A
120	71A8107-600B 71A8107-001DB	R-NPF R-HPF	170	4.5 2.4	120	15 8	H	9	2.0	3.6	- 55	- 120	- 7C550P12RA	- D	3.5 4.0	Integral Ignitor	2	A
220	71A81J2-500D	HX-HPF	188	1.5	120	4	K	1	2.6	3.8	14	280	7C140M30RA	D	7.5	LI551-H4	2	C
480	71A8142-510D 71A8142-001D	HX-HPF	188	0.7	120	2	K	1	3.0	4.3	14	280	7C140M30RA	D	9.0	LI551-H4	2	E
480/120T	71A8142-500DT	HX-HPF	188	0.7	120	2	K	1	3.0	4.3	14	280	7C140M30RA	D	9.0	LI551-H4	2	E
120/208/ 240/277	71A8192-500D	HX-HPF	188	2.8/1.6/ 1.4/1.3	120	10/5/ 5/4	K	1	2.6	3.8	14	280	7C140M30RA	D	7.5	LI551-H4	2	E/D/ E/D
120/208/ 240/277	71A8172-001D	HX-HPF	188	2.8/1.6/ 1.4/1.3	120	10/5/ 5/5	K	1	2.6	3.8	14	280	7C140M30RA	D	7.5	LI551-H4	2	E/D/ E/D
120/ 277/347	71A81A2-500D 71A81A2-001D	HX-HPF	188	2.8/ 1.3/0.9	120	10/ 4/3	K	1	2.6	3.8	14	280	7C140M30RA	D	7.5	LI551-H4	2	D/ D/D

† Ordering information:

Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).

- 500D includes core & coil with dry-film capacitor.
- 500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).

May also be available with welded bracket, and/or without capacitor:

- 510D includes core & coil with welded bracket and dry-film capacitor.
- 510 includes core & coil with welded bracket and oil-filled capacitor.
- 600 core & coil only (no capacitor).
- 610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. Long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

- **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWVA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.

LL. Special high efficiency/ low-loss ballast

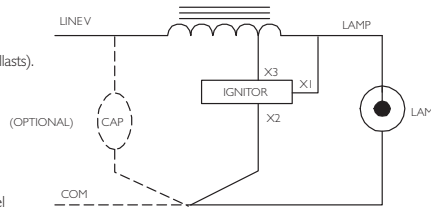


Fig. G

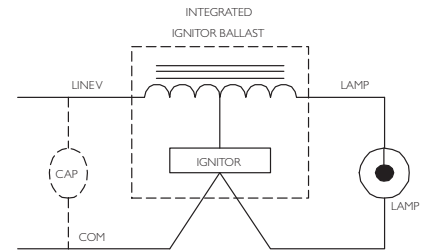


Fig. H

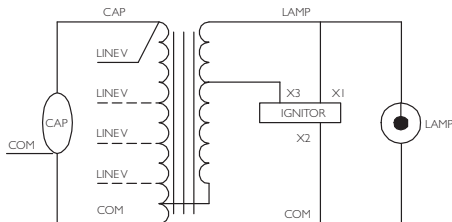


Fig. K

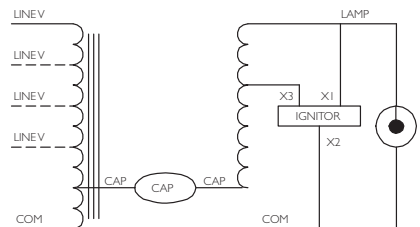


Fig. M

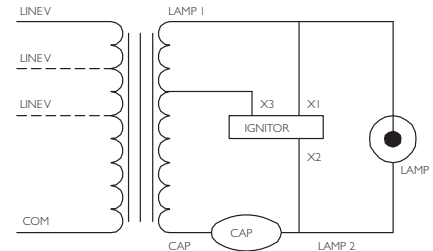


Fig. V



60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
150W Lamp, ANSI Code S55 (55V Arc Tube)																			
120/277	71A8188-500D	CWA	190	1.7/7	110	5/3	M	1	2.8	4.1	55	170	7C550P24RA	D	8.5	LI551-J4	10	E/D	
NOM	127/220	71A81H8-500DMA	CWA	190	1.6/9	110	4/2	M	1	3.0	4.3	55	170	7C550P24RA	D	8.5	LI551-J4	10	D/C
	480	71A8148-500D	CWA	190	.5	110	1	M	1	2.5	3.8	55	170	7C550P24RA	D	8.0	LI551-J4	10	E
LL NOM	220/240	71A81J9-500DM	CWA	170	0.8/0.7	111	2/2	M	2	2.5	3.8	60	240	7C600P24RA	D	13.5	LI551-J4	2	A/A
120/208/240	71A81E6-500D	CWI	190	1.7/1.1/8	105	5/3/3	V	1	2.6	4.0	52	240	7C520P24RA	D	8.5	LI551-J4	2	E/E/D	
150W Lamp, ANSI Code S56 (100V Arc Tube)																			
480	71A8146-500D 71A8146-001D	CWA	188	0.5	180	2	M	1	2.5	3.8	20	280	7C200P30RA	D	8.5	LI501-H4	2	B	
120/208/240/277	71A8196-500D	CWA	188	1.7/1.0/9/8	180	5/3/3/3	M	1	2.5	4.1	20	280	7C200P30RA	D	8.5	LI501-H4	2	E/D/C/C	
120/208/240/277	71A8176-001D	CWA	188	1.7/1.0/9/8	180	5/3/3/3	M	1	2.5	4.1	20	280	7C200P30RA	D	8.5	LI501-H4	2	E/D/C/C	

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
2	6.5	1.25	5.75	0.28
9	4.0	0.75	3.50	0.28

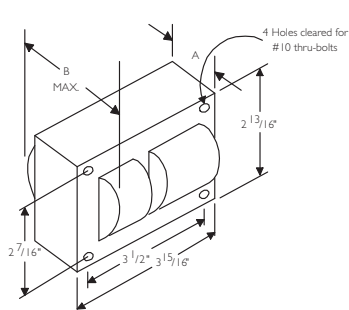
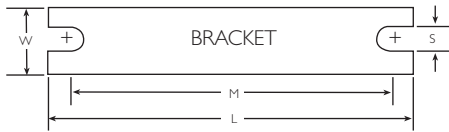


Fig. 1
(3" x 4" Core)

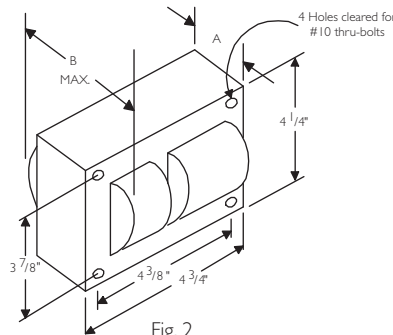


Fig. 2
(4 1/4" x 4 3/4" Core)

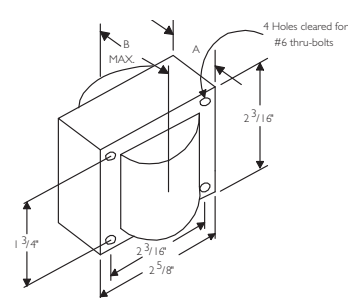


Fig. 9
(2 5/8" x 2 3/16" Reactor Core)

60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max Input Current [*]	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor ^{††} (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
200W Lamp, ANSI Code S66																			
480	71A8940-001D	CWA	240	.6	185	2	M	2	1.2	3.0	28	280	7C280P30-RA	D	8.5	LI501-H4	2	C	
120/208/240/277	71A8990-500D	CWA	240	2.2/1.3 1.1/1.0	185	6/4/3/3	M	2	1.2	3.0	28	280	7C280P30-RA	D	8.5	LI501-H4	2	E/D/ D/C	
120/208/240/277	71A8970-001D	CWA	240	2.2/1.3 1.1/1.0	185	6/4/3/3	M	2	1.2	3.0	28	280	7C280P30-RA	D	8.5	LI501-H4	2	E/D/ D/C	
◆ 480	71A8941-500D	CWA	250	.6	195	2	M	1	3.0	4.2	24	280	7C240P30RA	D	8.5	LI501-H4	2	J	
◆ 120/208/240/277	71A8991-500D	CWA	250	2.4/1.4 1.2/1.0	195	8/5/5/3	M	1	3.0	4.2	24	280	7C240P30RA	D	8.5	LI501-H4	2	H/G/ H/I	

[†] Ordering information:

Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).

- 500D includes core & coil with dry-film capacitor.
- 500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).

May also be available with welded bracket, and/or without capacitor:

- 510D includes core & coil with welded bracket and dry-film capacitor.
- 510 includes core & coil with welded bracket and oil-filled capacitor.
- 600 core & coil only (no capacitor).
- 610 core & coil with welded bracket (no capacitor).

^{††} Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

• **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

◆ Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.

LL. Special high efficiency/ low-loss ballast

HID • Core & Coil HPS

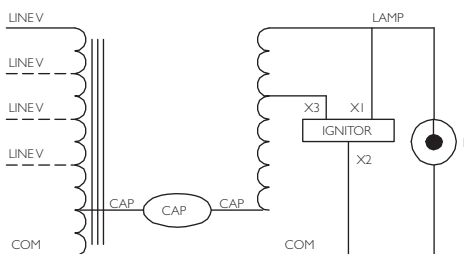


Fig. M

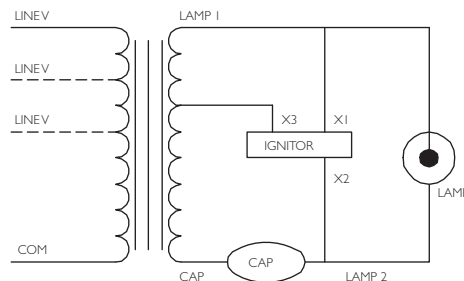


Fig. V

60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog [†] Number	Circuit Type	Input Watts	Max* Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
250W Lamp, ANSI Code S50 or M168																			
127/220	71A82H1-500DM	CWA	295	2.5/1.5	185	7/4	M	2	1.8	3.5	35	240	7C350P24RA	D	11.0	LI501-H4	2	D/C	NOM
480	71A8241-500DA	CWA	310	.7	185	2	M	2	1.8	3.5	35	240	7C350P24RA	D	11.0	LI501-H4	2	B	
480/120†	71A8241-500DT 71A8241-001D	CWA	310	.7	185	2	M	2	1.8	3.5	35	240	7C350P24RA	D	11.0	LI501-H4	2	B	
120/208/240/277	71A8291-500DA	CWA	295	2.5/1.5/1.3/1.1	185	7/4/4/3	M	2	1.8	3.5	35	240	7C350P24RA	D	11.0	LI501-H4	2	B/A/B/B	NOM
120/208/240/277	71A8271-001D	CWA	295	2.5/1.5/1.3/1.1	185	7/4/4/3	M	2	1.8	3.5	35	240	7C350P24RA	D	11.0	LI501-H4	2	B/A/B/B	
120/208/240/277/480	71A8251-500DA 71A8251-001D	CWA	300	2.6/1.5/1.3/1.2/.7	185	10/4/4/3/2	M	2	2.0	3.6	35	240	7C350P24RA	D	12.0	LI501-H4	2	B/B/B/B	
120/277/347	71A82A1-500D 71A82A1-001D	CWA	295	2.7/1.2/9	185	7/3/2	M	2	2.0	3.6	35	240	7C350P24RA	D	11.5	LI501-H4	2	C/C/B	
220/240	71A82J9-500DM	CWA	285	1.4/1.3	188	4/4	M	2	1.8	3.4	34	240	7C340P24RA	D	11.0	LI501-H4	5	A/A	NOM
120/208/240	71A82E6-500D	CWI	300	2.8/1.6/1.4	190	8/5/5	V	2	1.9	3.8	28	300	7C280P30-RA	D	11.0	LI501-J4	2	D/C/C	

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
2	6.5	1.25	5.75	0.28

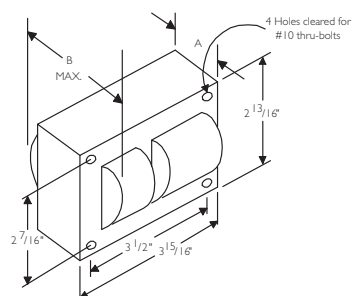
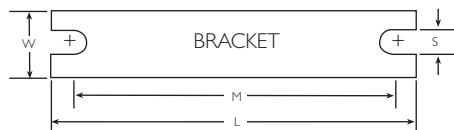


Fig. 1
(3" x 4" Core)

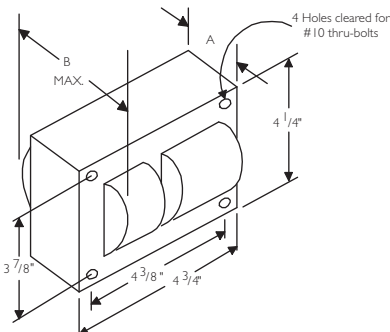


Fig. 2
(4 1/4" x 4 3/4" Core)

NOM HID • Core & Coil HPS

60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max* Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)		
310W Lamp, ANSI Code S67																			
120/208/240/277	71A8371-001D	CWA	365	3.4/1.9/1.7/1.4	175	8/5/5/5	M	2	2.2	4.1	45	280	7C450P30-RA	D	13.5	LI501-H4	2	D/C/D/B	
120/208/240/277/480	71A8351-500D	CWA	367	3.2/1.7/1.6/1.4/.8	183	8/5/4/4/2	M	2	2.5	4.1	45	280	7C450P30-RA	D	14.0	LI501-H4	2	C/A/B/B/B	
400W Lamp, ANSI Code S51 or M169																			
480	71A8443-510D 71A8443-001D	CWA	464	1.0	190	3	M	2	2.6	4.3	55	240	7C550P24RA	D	15.0	LI501-H4	2	D	
480/120T	71A8443-500DT	CWA	464	1.0	190	3	M	2	2.3	4.0	55	240	7C550P24RA	D	15.0	LI501-H4	2	D	
480/120T	71A8443-500DTA	CWA	464	1.0	190	3	M	2	2.8	4.3	55	240	7C550P24RA	D	16.0	LI501-H4	2	D	
NOM 120/208/240/277	71A8493-500D	CWA	464	3.8/2.2/1.9/1.7	190	10/8/5/5	M	2	2.1	4.0	55	240	7C550P24RA	D	13.5	LI501-H4	2	D/D/D/D	
NOM 120/208/240/277	71A8493-500DA	CWA	464	3.8/2.2/1.9/1.7	190	10/8/5/5	M	2	2.6	4.3	55	240	7C550P24RA	D	16.0	LI501-H4	2	D/D/D/D	
120/208/240/277	71A8473-001D	CWA	464	3.8/2.2/1.9/1.7	190	10/8/5/5	M	2	2.1	4.0	55	240	7C550P24RA	D	13.5	LI501-H4	2	D/D/D/D	
120/208/240/277/480	71A8453-500D 71A8453-001D	CWA	465	3.9/2.2/1.9/1.7/1.0	195	10/6/5/5/3	M	2	2.7	4.4	55	240	7C550P24RA	D	16.0	LI501-H4	2	C/C/D/D/C	
120/277/347	71A84A3-500D 71A84A3-001D	CWA	464	3.8/1.7/1.3	190	10/5/5	M	2	2.3	4.0	55	240	7C550P24RA	D	13.5	LI501-H4	2	D/D/D	
120/208/240	71A84E6-500D	CWI	465	4.2/2.4/2.1	190	10/7/5	V	2	2.7	4.4	48	300	7C480S30RA	D	15.5	LI501-J4	2	E/E/E	

HID • Core & Coil
HPS

- † Ordering information:
Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.
Original equipment ballasts – typically ordered with capacitor (as shown).
 -500D includes core & coil with dry-film capacitor.
 -500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).
 May also be available with welded bracket, and/or without capacitor:
 -510D includes core & coil with welded bracket and dry-film capacitor.
 -510 includes core & coil with welded bracket and oil-filled capacitor.
 -600 core & coil only (no capacitor).
 -610 core & coil with welded bracket (no capacitor).
 †† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures, long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.
- **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.
- NOM** Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM1).
- ☛ Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.

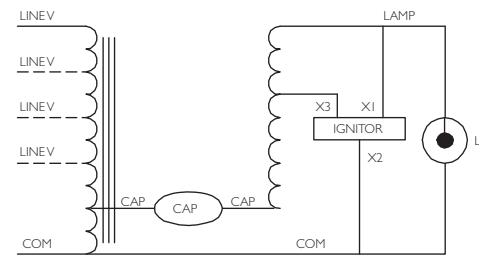


Fig. M

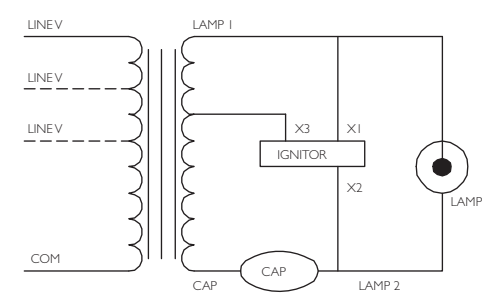


Fig. V



60 Hz Core & Coil Ballasts

High Pressure Sodium



Input Volts	Catalog† Number	Circuit Type	Input Watts	Max. Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	Ignitor †† (Page 5-40 to 5-44)		U.L. Bench Top Rise Code 1029 (Pg 5-4)	
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		Part Number	Max Dist To Lamp (ft)	Class H (180°C)	Philips Advance Class N (200°C)
600W Lamp, ANSI Code S106																			
120/208/240	71A85E5-500D	CWA	670	5.5/3.3/2.9	220	15/9/8	M	8a	3.2	5.1	64	280	7C640S28-RA	D	22.5	LI561-H5	2	A/A/B	A/A/A
277/347/480	71A85F5-500D	CWA	665	2.5/2.0/1.4	230	7/5/4	M	8a	3.2	5.1	64	280	7C640S28-RA	D	23.0	LI561-H5	5	A/A/A	A/A/A
750W Lamp, ANSI Code S111																			
120/208/240	71A86E5-500D	CWA	840	6.8/4.0/3.5	220	20/10/10	M	8a	3.2	5.1	75	280	7C750S28-RA	D	22.5	LI561-H5	5	D/E	A/A/A
277/347/480	71A86F5-500D	CWA	840	3.1/2.5/1.8	225	10/10/5	M	8a	3.2	5.1	75	280	7C750S28-RA	D	23.0	LI561-H5	5	E/D/D	A/A/A
1000W Lamp, ANSI Code S52																			
220	71A87J3-500	CWA	1100	5.0	435	15	M	8a	3.8	5.8	26	525	MD2602-030	O	28.0	LI571-H5★	15	C	A
480	71A8743-500 71A8743-001	CWA	1100	2.3	435	6	M	8a	3.9	5.8	26	525	MD2602-030	O	28.0	LI571-H5★	15	C	A
480/120T	71A8743-500T	CWA	1100	2.3	435	6	M	8a	3.9	5.8	26	525	MD2602-030	O	28.0	LI571-H5★	15	C	A
120/208/240/277	71A8793-500	CWA	1100	9.5/5.5/4.8/4.2	435	25/15/10/10	M	8a	3.8	5.8	26	525	MD2602-030	O	28.0	LI571-H5★	15	C/B/C/C	A/A/A/A
120/208/240/277	71A8773-001	CWA	1100	9.5/5.5/4.8/4.2	435	25/15/10/10	M	8a	3.8	5.8	26	525	MD2602-030	O	28.0	LI571-H5★	15	C/B/C/C	A/A/A/A
120/208/240/277/480	71A8753-600 71A8753-001	CWA	1100	9.3/5.3/4.7/4.1/2.3	437	25/15/12/10/6	M	8a	4.0	6.0	26	525	MD2602-030	O	29.0	LI571-H5★	15	C/C/C/C/C	A/A/A/A/A
120/277/347	71A87A3-500 71A87A3-001	CWA	1100	9.5/4.2/3.3	435	25/15/10	M	8a	3.9	5.9	26	525	MD2602-030	O	28.0	LI571-H5★	15	C/C	A/A

NOM

HID • Core & Coil
HPS

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
2	6.5	1.25	5.75	0.28
8a	7.8	4.50	6.75	0.31

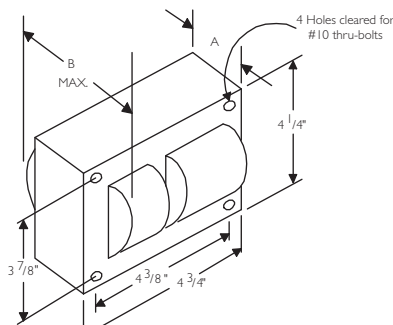
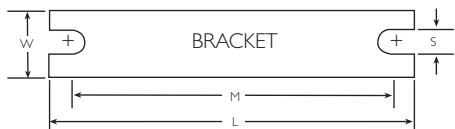


Fig. 2
(4 1/4" x 4 3/4" Core)

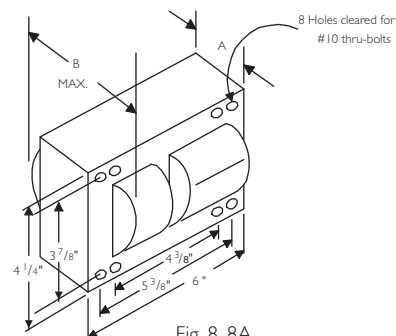


Fig. 8, 8A
(4 1/4" x 6" Core)



60 Hz Core & Coil Ballasts

Low Pressure Sodium



Input Volts	Catalog † Number	Circuit Type	Input Watts	Max • Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		
18W Lamp, ANSI Code L69																
120/277	71A0280-500D	HX-PFC	30	1.0/5	315	3/2	Q	I	1.0	2.4	5	250	7C050L30RA	D	4.5	A/A
35W Lamp, ANSI Code L70 or 55W Lamp, ANSI Code L71																
120/208/ 240/277	71A0490-500D 71A0490-001D	HX-HPF/ HX-PFC	60 or 80	2.4/1.4/ 1.2/1.0	480	6/4/ 3/3	Q	I	2.3	3.5	14	240	7C140M30RA	D	8.0	A/A/ A/A
347/480	71A04F0-500D	HX-HPF	60 or 80	0.79/0.58	480	2/2	Q2	I	2.3	3.5	14	240	7C140M30RA	D	8.0	A/A

† Ordering information:

Replacement/retrofit ballast kits – indicated by bold type and -001D or -001 suffix. Refer to pages 5-5 to 5-9 for more information on replacement kits.

Original equipment ballasts – typically ordered with capacitor (as shown).

- 500D includes core & coil with dry-film capacitor.
- 500 includes core & coil with oil-filled capacitor (required for higher wattage ballasts).

May also be available with welded bracket, and/or without capacitor:

- 510D includes core & coil with welded bracket and dry-film capacitor.
- 510 includes core & coil with welded bracket and oil-filled capacitor.
- 600 core & coil only (no capacitor).
- 610 core & coil with welded bracket (no capacitor).

†† Each ballast requiring an ignitor is furnished standard with a short-range ignitor model shown for use within fixtures. long-range ignitors are available separately if required. See pages 5-xx to 5-yy for additional information.

• **Maximum Input Current** – For HX and R circuits, value is the highest of starting, operating or open circuit current. For CWA, SCWA and CWI circuits, value is the operating current.

NOM Certified ballast available for Mexican market. Add "M" to suffix (example: -500DM).

☛ Canadian replacement/retrofit ballast kit indicated by **bold type**. Refer to page 5-9.

HID • Core & Coil LPS

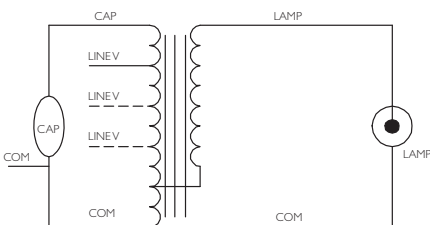


Fig. Q

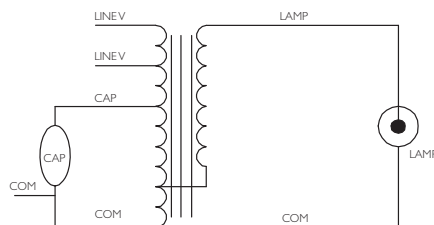


Fig. Q2

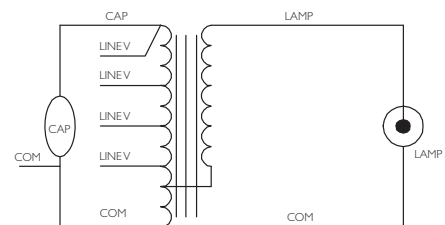


Fig. Q4



60 Hz Core & Coil Ballasts

Low Pressure Sodium



Input Volts	Catalog † Number	Circuit Type	Input Watts	Max * Input Current	Nom Open Circuit Voltage	Fuse Rating (Amps)	Wiring Dia	Dimensions			Non-PCB Capacitor (Page 5-38 & 5-39)				Total Weight (lbs)	U.L. Bench Top Rise Code 1029 (pg 5-4)
								Fig	A	B	Mfd	Min Volt	Cap Catalog Number	Dry or Oil		
90W Lamp, ANSI Code L72																
120/208/240/277	71A0590-500D	HX-HPF	125	4.1/2.3/2.0/1.75	515	1 1/6/5/5	Q4	2	1.8	3.3	17.5	330	7C175M33-R	D	10.0	A/A/A/A
347/480	71A05F0-500D	HX-HPF	125	1.35/0.95	520	4/3	Q2	2	1.8	3.4	16.0	330	7C160M33	D	10.2	A/A
135W Lamp, ANSI Code L73 or 180W Lamp, ANSI Code L74																
120/208/240/277	71A0790-500D	HX-HPF	180 or 208	5.28/2.82/2.62/2.25	695	15/7/7/6	Q	3a	2.4	4.0	16	330	7C160M33	D	15.3	A/A/A/A
347/480	71A07F0-500D	HX-HPF	182 or 213	1.82/1.33	690	5/4	Q2	3a	2.4	4.0	16	330	7C160M33	D	15.0	A/A

WELDED BRACKET DIMENSIONS

Ballast Dimensions Fig	L	W	M	S
1	5.1	1.00	4.50	0.25
2	6.5	1.25	5.75	0.28
3a	7.8	2.75	6.13	0.25

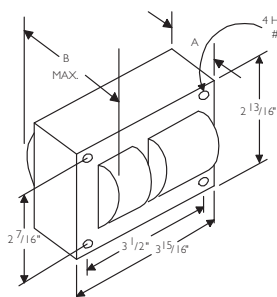
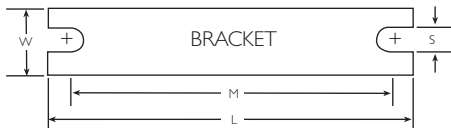


Fig. 1
(3" x 4" Core)

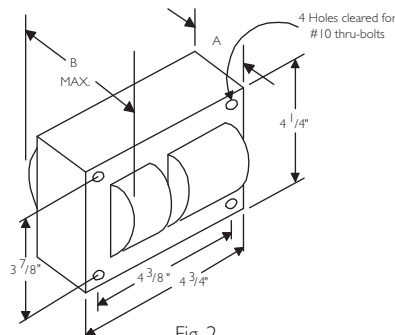


Fig. 2
(4 1/4" x 4 3/4" Core)

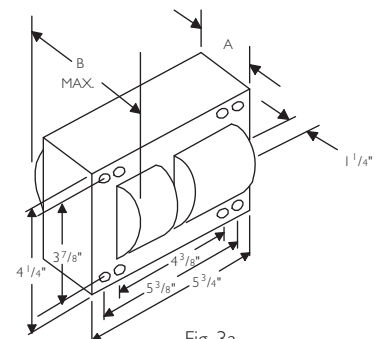


Fig. 3a
(4 1/4" x 5 3/4" Core)