

BALLAST ELECTRICAL DATA

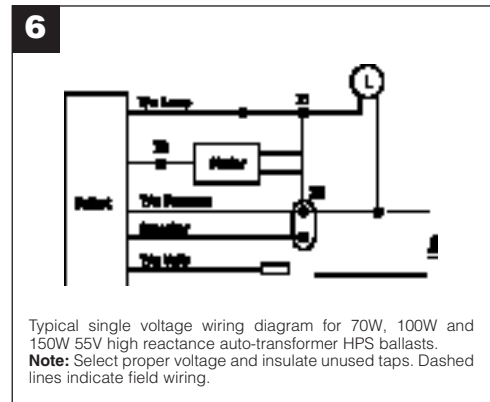
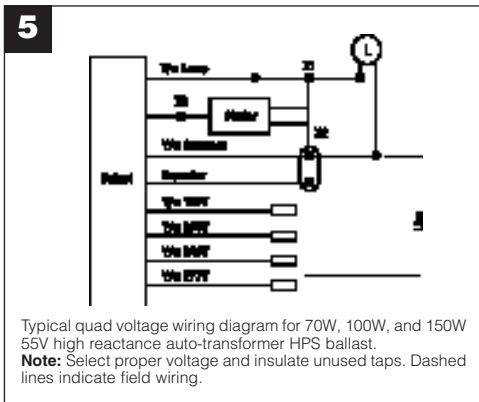
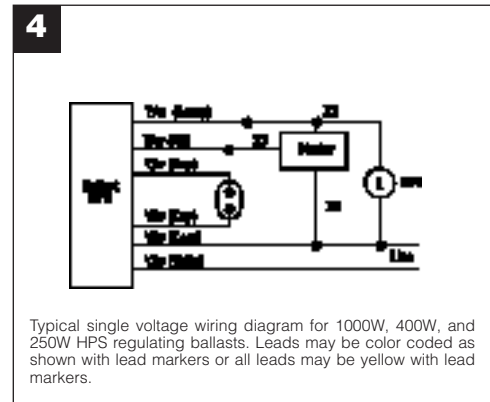
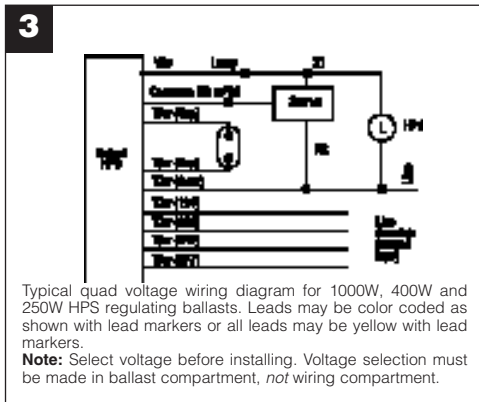
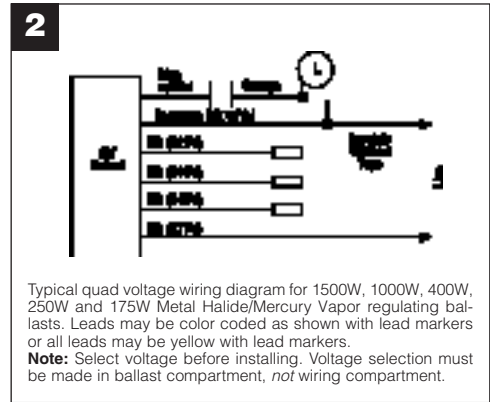
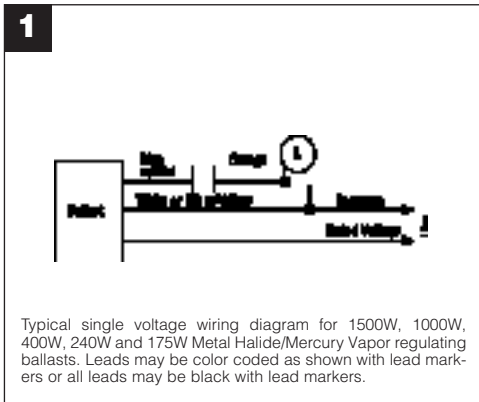
EXCELINE BALLAST SOURCE CODES

Source	Code	Ballast Type	Power Factor	Wattage	Available
Voltages					
High Pressure Sodium	NLX	Reactor	Normal	35 thru 150	120
High Pressure Sodium	HLX	Reactor	High	35 thru 150	120
High Pressure Sodium	LX	HX	High	70 thru 150	120-480
High Pressure Sodium	LX	CWA	High	250 thru 1000	120-480
Metal Halide	MA	HX	High	70,100	120/277
Metal Halide	MA	CWA	High	150-1500	120-480
Metal Halide	NMA	HX	Normal	50	120 or 277
Metal Halide	HMA	CWA	High	50-100	120 or 277
Mercury Vapor	NMM	Reactor	Normal	75	120
Mercury Vapor	NMA	Super CWA	High	100-4500	120-480
Linear Reactor	LR	Linear Reactor	High	50-450	277
Compact Fluorescent	NFL	Fluorescent	Normal	7-28	120
Compact Fluorescent	HF	Fluorescent	High	7-28	120

EXCELINE VOLTAGE CODES

CATALOG NUMBER SUFFIX	
Code	Voltage
-1	120
-2	208
-3	240
-4	277
-5	480
-6	120/277
-7	347
-8	120-277
-9	220/50Hz

TYPICAL WIRING DIAGRAMS



BALLAST ELECTRICAL DATA

ELECTRICAL DATA

High Pressure Sodium (LX)

WATTS	ANSI	BALLAST TYPE	INPUT VOLTS	INPUT WATTS	STARTING CURRENT (AMPS)	OPERATING CURRENT (AMPS)
35	S75	NPF (REACTOR)	120V	46W	1.35	.83
35	S76	HPF (REACTOR)	120V	46W	.78	.38
50	S68	NPF (REACTOR)	120V	62W	1.80	1.08
50	S68	HPR (REACTOR)	120V	62W	.95	.55
50	S68	HX-HPF	120V	64W	.58	.58
50	S68	HX-HPF	208V	64W	.35	.33
50	S68	HX-HPF	240V	64W	.30	.29
50	S68	HX-HPF	277V	64W	.24	.25
70	S62	NPF (REACTOR)	120V	82W	2.25	1.60
70	S62	HPF (REACTOR)	120V	82W	.85	.75
70	S62	HX-HPF	120V	88W	.75	.81
70	S62	HX-HPF	208V	88W	.45	.47
70	S62	HX-HPF	240V	88W	.37	.40
70	S62	HX-HPF	277V	88W	.35	.35
100	S54	NPF (REACTOR)	120V	115W	3.05	2.10
100	S54	HPF (REACTOR)	120V	115W	1.50	1.05
100	S54	HX-HPF	120V	130W	1.30	1.15
100	S54	HX-HPF	208V	130W	.76	.67
100	S54	HX-HPF	240V	130W	.66	.58
100	S54	HX-HPF	277V	130W	.60	.50
100	S54	HX-HPF	480V	130W	.33	.29
150	S55	NPF (REACTOR)	120V	170W	4.50	3.20
150	S55	HPF (REACTOR)	120V	170W	2.20	1.50
150	S55	HX-HPF	120V	188W	2.00	1.65
150	S55	HX-HPF	208V	188W	1.15	.95
150	S55	HX-HPF	240V	188W	1.00	.83
150	S55	HX-HPF	277V	188W	.85	.72
150	S55	HX-HPF	480V	188W	.50	1.75
150	S55	CWA	120V	188W	.50	.42
150	S55	CWA	208V	188W	.25	1.00
150	S55	CWA	240V	188W	.20	.88
150	S55	CWA	277V	188W	.15	.75
150	S55	CWA	480V	188W	.10	.44
250	S50	CWA	120V	300W	1.80	2.75
250	S50	CWA	208V	300W	1.00	1.60
250	S50	CWA	240V	300W	.90	1.38
250	S50	CWA	277V	300W	.78	1.20
250	S50	CWA	480V	300W	.38	.69
400	S51	CWA	120V	457W	2.70	3.80
400	S51	CWA	208V	457W	1.70	2.20
400	S51	CWA	240V	457W	1.40	1.90
400	S51	CWA	277V	457W	1.30	1.70
400	S51	CWA	480V	457W	.70	1.00
750	S111	CWA	120V	835W	-	7.20
750	S111	CWA	208V	835W	-	4.20
750	S111	CWA	240V	835W	-	3.60
750	S111	CWA	277V	835W	-	3.10
750	S111	CWA	480V	835W	-	1.80
1000	S52	CWA	120V	1100W	6.35	9.50
1000	S52	CWA	208V	1100W	3.80	5.50
1000	S52	CWA	240V	1100W	3.20	4.75
1000	S52	CWA	277V	1100W	2.26	4.15
1000	S52	CWA	480V	1100W	2.20	2.30

Metal Halide (MA) / Mercury Vapor (MM)

WATTS	ANSI	BALLAST TYPE	INPUT VOLTS	INPUT WATTS	STARTING CURRENT (AMPS)	OPERATING CURRENT (AMPS)
50	M110	NPF(REACTOR)	120V	69W	1.80	1.55
50	M110	HX-HPF	120V	69W	.75	.65
50	M110	HX-HPF	277V	67W	.39	.25
70	M98	HX-HPF	120V	89W	.53	.85
70	M98	HX-HPF	277V	89W	.27	.37
100	M90	HX-HPF	120V	129W	1.15	1.15
100	M90	HX-HPF	277V	129W	.50	.50
150	M107	CWA	120V	195W	-	1.54
150	M107	CWA	208V	195W	-	.89
150	M107	CWA	240V	195W	-	.77
150	M107	CWA	277V	195W	-	.67
150	M107	CWA	480V	195W	-	.39
175	M57, H39	CWA	120V	210W	.90	1.80
175	M57, H39	CWA	208V	210W	.52	1.04
175	M57, H39	CWA	240V	210W	.45	.90
175	M57, H39	CWA	277V	210W	.39	.78
175	M57, H39	CWA	480V	210W	.22	.45
250	M58, H37	CWA	120V	294W	1.40	2.60
250	M58, H37	CWA	208V	294W	.81	1.50
250	M58, H37	CWA	240V	294W	.70	1.30
250	M58, H37	CWA	277V	294W	.60	1.12
250	M58, H37	CWA	480V	294W	.35	.65
400	M59, H33	CWA	120V	455W	1.50	4.00
400	M59, H33	CWA	208V	455W	.87	2.30
400	M59, H33	CWA	240V	455W	.75	2.00
400	M59, H33	CWA	277V	455W	.65	1.75
400	M59, H33	CWA	480V	455W	.38	1.00
1000	M47, H36	CWA	120V	1080W	8.00	9.00
1000	M47, H36	CWA	208V	1080W	4.60	5.20
1000	M47, H36	CWA	240V	1080W	4.00	4.50
1000	M47, H36	CWA	277V	1080W	3.50	3.90
1000	M47, H36	CWA	480V	1080W	2.00	2.25
1500	M48, H36	CWA	120V	1605W	13.50	13.50
1500	M48, H36	CWA	208V	1605W	7.70	7.80
1500	M48, H36	CWA	240V	1605W	6.70	6.80
1500	M48, H36	CWA	277V	1605W	5.90	5.90
1500	M48, H36	CWA	480V	1605W	3.30	3.40

BALLAST TYPE

M=Metal Halide

H=Mercury Vapor

BALLAST ELECTRICAL DATA PULSE START METAL HALIDE BALLAST DATA

WATTS	ANSI CODE	BALLAST TYPE	INPUT VOLTS	INPUT WATTS	STARTING CURRENT AMPS	OPEN CIRCUIT AMPS	OPERATING CURRENT AMPS
50	M110	SCWA-MTB	120	65	.40	1.30	.60
50	M110	SCWA-MTB	208	65	.25	.75	.35
50	M110	SCWA-MTB	240	65	.20	.65	.30
50	M110	SCWA-MTB	277	65	.20	.55	.25
50	M110	SCWA	480	65	.10	.25	.15
50	M110	SCWA-TT HX	120	65	.40	1.30	.60
50	M110	SCWA-TT HX	277	65	.20	.55	.25
50	M110	SCWA-TT HX	347	65	.15	.45	.20
70	M98	SCWA-MTB	120	90	.70	1.70	.80
70	M98	SCWA-MTB	208	90	.40	.95	.45
70	M98	SCWA-MTB	240	90	.35	.85	.40
70	M98	SCWA-MTB	277	90	.30	.70	.35
70	M98	SCWA-TT HX	120	90	.70	1.70	.80
70	M98	SCWA-TT HX	277	90	.30	.70	.35
70	M98	SCWA-TT HX	347	90	.25	.60	.30
70	M98	LINEAR REACTOR	277	85	.25	.80	.30
100	M90	SCWA-MTB	120	127	1.00	2.00	1.10
100	M90	SCWA-MTB	208	127	.60	1.50	.65
100	M90	SCWA-MTB	240	127	.50	1.30	.55
100	M90	SCWA-MTB	277	127	.45	1.15	.50
100	M90	SCWA-TT HX	120	130	.70	2.55	1.10
100	M90	SCWA-TT HX	277	130	.45	1.10	.50
100	M90	SCWA-TT HX	347	130	.25	.90	.40
100	M90	LINEAR REACTOR	277	118	.60	1.05	.45
150	M102	SCWA-MTB	120	190	1.40	1.00	1.70
150	M102	SCWA-MTB	208	190	.80	.60	1.00
150	M102	SCWA-MTB	240	190	.70	.50	.85
150	M102	SCWA-MTB	277	190	.60	.45	.75
150	M102	SCWA	480	190	.25	.4	.4
150	M102	SCWA-TT HX	120	190	1.15	1.40	1.65
150	M102	SCWA-TT HX	277	190	.50	.60	.70
150	M102	SCWA-TT HX	347	190	.40	.50	.55
150	M102	LINEAR REACTOR	277	172	.8	1.5	.7
175	M137	SCWA-MTB	120	208	1.00	1.00	1.90
175	M137	SCWA-MTB	208	208	.60	.60	1.05
175	M137	SCWA-MTB	240	208	.50	.50	.95
175	M137	SCWA-MTB	277	208	.45	.45	.80
175	M137	SCWA	480	208	.25	.25	.50
175	M137	SCWA-TT HX	120	208	1.00	1.00	1.90
175	M137	SCWA-TT HX	277	208	.45	.45	.80
175	M137	SCWA-TT HX	347	208	.35	.35	.65
175	M137	LINEAR REACTOR	277	194	.85	1.05	.75
200	M136	SCWA-MTB	120	232	1.40	1.00	2.00
200	M136	SCWA-MTB	208	232	.75	.60	1.15
200	M136	SCWA-MTB	240	232	.70	.50	1.00
200	M136	SCWA-MTB	277	232	.60	.45	.85
200	M136	SCWA	480	232	.35	.25	.50
200	M136	SCWA-TT HX	120	232	1.00	1.00	2.00
200	M136	SCWA-TT HX	277	232	.45	.45	.85
200	M136	SCWA-TT HX	347	232	.35	.35	.70
200	M136	LINEAR REACTOR	277	219	.80	1.25	.80
250	M138	SCWA-MTB	120	288	1.40	1.80	2.50
250	M138	SCWA-MTB	208	288	.80	1.10	1.45
250	M138	SCWA-MTB	240	288	.70	.90	1.25
250	M138	SCWA-MTB	277	288	.60	.80	1.10
250	M138	SCWA	480	288	.35	.45	.60
250	M138	SCWA-TT HX	120	288	1.40	1.80	2.50
250	M138	SCWA-TT HX	277	288	.60	.80	1.10
250	M138	SCWA-TT HX	347	288	.50	.65	.90
250	M138	LINEAR REACTOR	277	275	1.25	1.35	1.10
320	M132	SCWA-MTB	120	365	2.50	1.60	3.20
320	M132	SCWA-MTB	208	365	1.45	.90	1.80
320	M132	SCWA-MTB	240	365	1.25	.80	1.60
320	M132	SCWA-MTB	277	365	1.10	.70	1.40
320	M132	SCWA	480	370	.60	.40	.80
320	M132	SCWA-TT HX	120	365	2.30	1.55	3.20
320	M132	SCWA-TT HX	277	365	1.00	.70	1.40
320	M132	SCWA-TT HX	347	365	.80	.55	1.15
320	M132	LINEAR REACTOR	277	349	1.30	2.10	1.30
350	M131	SCWA-MTB	120	400	2.80	1.60	3.60
350	M131	SCWA-MTB	208	400	1.60	.90	2.10
350	M131	SCWA-MTB	240	400	1.40	.80	1.80
350	M131	SCWA-MTB	277	400	1.20	.70	1.55
350	M131	SCWA	480	400	.65	.40	.90
350	M131	SCWA-TT HX	120	400	2.40	1.55	3.50
350	M131	SCWA-TT HX	277	400	1.05	.70	1.55
350	M131	SCWA-TT HX	347	400	.90	.55	1.20
350	M131	LINEAR REACTOR	277	380	1.90	2.10	1.50
400	M135	SCWA-MTB	120	448	3.60	1.00	4.00
400	M135	SCWA-MTB	208	448	2.00	.60	2.20
400	M135	SCWA-MTB	240	448	1.80	.50	2.00

Product information is subject to change without notice.

BALLAST ELECTRICAL DATA

PULSE START METAL HALIDE BALLAST DATA (Cont.)

WATTS	ANSI CODE	BALLAST TYPE	INPUT VOLTS	INPUT WATTS	STARTING CURRENT AMPS	OPEN CIRCUIT AMPS	OPERATING CURRENT AMPS
400	M135	SCWA-MTB	277	448	1.60	.45	1.70
400	M135	SCWA	480	452	.90	.30	1.00
400	M135	SCWA-TT HX	120	452	3.60	1.00	4.00
400	M135	SCWA-TT HX	277	452	1.60	.45	1.70
400	M135	SCWA-TT HX	347	452	1.30	.40	1.40
400	M135	LINEAR REACTOR	277	435	1.90	2.10	1.70
450	M144	SCWA-MTB	120	505	4.20	1.20	4.50
450	M144	SCWA-MTB	208	505	2.40	.65	2.60
450	M144	SCWA-MTB	240	505	2.10	.60	2.25
450	M144	SCWA-MTB	277	505	1.80	.50	2.00
450	M144	SCWA	480	505	1.00	.25	1.10
450	M144	SCWA-TT HX	120	505	4.20	1.20	4.50
450	M144	SCWA-TT HX	277	505	1.80	.50	2.00
450	M144	SCWA-TT HX	347	505	1.45	.30	1.60
450	M144	LINEAR REACTOR	277	489	2.10	2.30	1.90

SCWA= Super Constant Wattage Autotransformer Voltage Specific
 SCWA-MTB= Super Constant Wattage Autotransformer Multi-tap Ballast-120/208/240/277
 SCWA-TT HX=Super Constant Wattage Autotransformer Tri-Tap HX Ballast-120/277/347
 Linear Reactor 277V only ballast.

COMPACT FLUORESCENT ELECTRONIC BALLAST DATA

WATTAGE	BALLAST TYPE	INPUT VOLTAGE	INPUT WATTS	MAXIMUM CURRENT	TYPICAL CURRENT
13	ELECTRONIC	120	16	.16	.14
13	ELECTRONIC	277	16	.07	.06
18	ELECTRONIC	120	20	.20	.17
18	ELECTRONIC	277	20	.08	.07
26	ELECTRONIC	120	27	.25	.23
26	ELECTRONIC	277	27	.11	.10
28	MAGNETIC-NPF	120	32	.60	
28	MAGNETIC-NPF	120	33	.60	.30
32	ELECTRONIC	120	33	.33	.28
32	ELECTRONIC	277	33	.14	.12
42	ELECTRONIC	120	44	.44	.37
42	ELECTRONIC	277	44	.19	.16

ELECTRONIC HID

WATTAGE	BALLAST TYPE	INPUT VOLTAGE	INPUT CURRENT
35	ELECTRONIC	120	44 .37
35	ELECTRONIC	277	46 .17
70	ELECTRONIC	120	78 .67
70	ELECTRONIC	277	79 .29
100	ELECTRONIC	120	110 .90
100	ELECTRONIC	277	110 .39



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