



# Ballast

STANDARD offers a complete range of 120 volt, 120-277 volt, and 347 volt ballasts for a wide range of lighting applications. All STANDARD ballasts are approved by at least one of the major safety certification organizations including CSA and cRUus.

# Electronic Fluorescent

## T5

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated				
										F14T5 F21T5	F24T5	F28T5	F28T5ES	F35T5
2	F21T5	120-277	PS	<b>10476</b>	E221T5PS120-277/N	75	47	1.00	0.40	✓				
	F24T5	120-277	PS	<b>10477</b>	E224T5PS120-277/N	75	46	0.90	0.38		✓			
	F28T5	120-277	PS	<b>60105</b>	E228T5PS120-277/N/BULK	75	60	1.00	0.51	✓		✓	✓	
		347	PS	<b>60102</b>	E228T5PS347/N/BULK	75	61	1.00	0.18	✓		✓	✓	
	F35T5	120-277	PS	<b>10460</b>	E235T5PS120-277/N	75	84	0.90	0.69			✓		✓
		347	PS	<b>10461</b>	E235T5PS347/N	75	77	0.90	0.28			✓		✓

## T5HO

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated			
										F54T5HO	F49T5HO F58T8	F39T5HO	TTL 50 TTL 55
2	F54T5HO	120-277	PS	<b>63025</b>	E254T5HOPS120-277/N/XTRM	90	116	0.99	0.97	✓	✓	✓	✓
		347	PS	<b>63026</b>	E254T5HOPS347/N/XTRM	90	116	1.00	0.33	✓	✓	✓	✓
4	F54T5HO	120-277	PS	<b>63027</b>	E454T5HOPS120-277/N/XTRM	90	232	0.99	1.92	✓	✓	✓	✓
		347	PS	<b>63028</b>	E454T5HOPS347/N/XTRM	90	238	1.00	0.68	✓	✓	✓	✓

## T8

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated					
										F32T8	F30T8ES	F28T8ES	F25T8ES	F17T8 F25T8	
1	F32T8	120	IS	<b>31010</b>	E132T8IS120/N	75	28	0.90	0.23	✓	✓	✓	✓	✓	
			IS	<b>31037</b>	E132T8IS120/L	75	25	0.78	0.21	✓	✓	✓	✓	✓	
		347	IS	<b>56556</b>	E132T8IS120/L/BULK	75	25	0.78	0.21	✓	✓	✓	✓	✓	
			IS	<b>56557</b>	E132T8IS347/L/BULK	75	25	0.78	0.07	✓	✓	✓	✓	✓	
2	F32T8	120	IS	<b>61113</b>	E232T8IS120/N/AS	75	55	0.87	0.49	✓	✓	✓	✓	✓	
			IS	<b>61124</b>	E232T8IS120/N/AS/BULK	75	55	0.87	0.49	✓	✓	✓	✓	✓	
			IS	<b>61123</b>	E232T8IS120/L/AS	75	48	0.77	0.45	✓	✓	✓	✓	✓	
			IS	<b>61126</b>	E232T8IS120/L/AS/BULK	75	48	0.77	0.45	✓	✓	✓	✓	✓	
			IS	<b>60075</b>	E232T8IS120/H/90C	90	74	1.20	0.64	✓	✓	✓	✓	✓	
			IS	<b>61128</b>	E232T8IS120-277/N/AS	75	55	0.89	0.46	✓	✓	✓	✓	✓	
		120-277	IS	<b>61131</b>	E232T8IS120-277/L/AS	75	48	0.77	0.40	✓	✓	✓	✓	✓	
			PS	<b>61062</b>	E232T8PS120-277/L/AS/BULK	90	52	0.78	0.43	✓	✓	✓	✓	✓	
			PS	<b>57031</b>	E232T8PS120-277/H/XTRM	90	75	1.20	0.62	✓	✓	✓	✓	✓	
			347	IS	<b>66150</b>	E232T8IS/MIC/347/N/AS	75	57	0.88	0.19	✓	✓	✓	✓	✓
				IS	<b>66151</b>	E232T8IS/MIC/347/N/AS/BULK	75	57	0.88	0.19	✓	✓	✓	✓	✓
				IS	<b>66152</b>	E232T8IS/MIC/347/L/AS/BULK	75	48	0.78	0.14	✓	✓	✓	✓	✓
				IS	<b>60076</b>	E232T8IS347/H/90C	90	74	1.20	0.21	✓	✓	✓	✓	✓
			PS	<b>62992</b>	E232T8PS347/N/AS/BULK	75	56	0.88	0.16	✓	✓	✓	✓	✓	
			PS	<b>62993</b>	E232T8PS347/L/AS/BULK	75	47	0.71	0.14	✓	✓	✓	✓	✓	
			PS	<b>59741</b>	E232T8PS347/H/XTRM	90	75	1.20	0.22	✓	✓	✓	✓	✓	

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# T8

Ballast

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated				
										F32T8	F30T8ES	F28T8ES	F25T8ES	F17T8 F25T8 F40T8
3	F32T8	120	IS	<b>61122</b>	E332T8IS120/N/AS	75	84	0.88	0.71	✓	✓	✓	✓	✓
			IS	<b>60080</b>	E332T8IS120/L/90C/BULK	90	73	0.78	0.20	✓	✓	✓	✓	✓
		347	IS	<b>10365</b>	E332T8IS347/N	75	83	0.87	0.24	✓	✓	✓	✓	✓
			IS	<b>60079</b>	E332T8IS347/L/90C/BULK	90	73	0.77	0.61	✓	✓	✓	✓	✓
4	F32T8	120	IS	<b>61114</b>	E432T8IS120/N/AS	75	110	0.88	0.93	✓	✓	✓	✓	✓
			IS	<b>61125</b>	E432T8IS120/N/AS/BULK	75	110	0.88	0.93	✓	✓	✓	✓	✓
			IS	<b>61120</b>	E432T8IS120/L/AS	90	96	0.77	0.82	✓	✓	✓	✓	✓
			IS	<b>61127</b>	E432T8IS120/L/AS/BULK	90	96	0.77	0.82	✓	✓	✓	✓	✓
			IS	<b>59770</b>	E432T8IS120/H/90C	90	140	1.10	1.17	✓	✓	✓	✓	✓
		120-277	IS	<b>61129</b>	E432T8IS120-277/N/AS	75	110	0.88	0.94	✓	✓	✓	✓	✓
			IS	<b>61134</b>	E432T8IS120-277/L/AS	75	98	0.77	0.82	✓	✓	✓	✓	✓
			PS	<b>61063</b>	E432T8PS120-277/N/AS/BULK	75	110	0.87	0.94	✓	✓	✓	✓	✓
		347	PS	<b>61065</b>	E432T8PS120-277/L/AS/BULK	75	93	0.71	0.79	✓	✓	✓	✓	✓
			IS	<b>10294</b>	E432T8IS347/N	75	108	0.87	0.32	✓	✓	✓	✓	✓
			IS	<b>31552</b>	E432T8IS347/N/BULK	75	108	0.87	0.32	✓	✓	✓	✓	✓
			IS	<b>31036</b>	E432T8IS347/L	75	92	0.77	0.27	✓	✓	✓	✓	✓
			IS	<b>56603</b>	E432T8IS347/L/BULK	75	92	0.77	0.27	✓	✓	✓	✓	✓
			IS	<b>59771</b>	E432T8IS347/H/90C	90	140	1.10	0.41	✓	✓	✓	✓	✓
			PS	<b>61064</b>	E432T8PS347/N/AS/BULK	75	110	0.88	0.32	✓	✓	✓	✓	✓
		PS	<b>61066</b>	E432T8PS347/L/AS/BULK	75	92	0.71	0.28	✓	✓	✓	✓	✓	

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated				
										F96T8	F96T8ES	F72T8 F40T8	F96T8HO	F72T8HO F60T8HO F48T8HO
2	F96T8	120	IS	<b>61121</b>	E296T8IS120/N/AS	75	110	0.98	0.93	✓	✓	✓	✓	
		347	IS	<b>16358</b>	E296T8IS347/N	75	110	0.90	0.32	✓	✓	✓		
	F96T8HO	120	PS	<b>60013</b>	E296T8PS120-277/N/HO/XTRM	90	185	1.00	1.61				✓	✓
		347	PS	<b>60014</b>	E296T8PS347/N/HO/XTRM	90	184	1.03	0.53				✓	✓

# T12

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated				
										F40T12 F34T12 F30T12	F72T12 F60T12 F96T12/ES	F84T12 F64T12 F60T12	F48T12 F48T12/ES	
2	F40T12	120	RS	<b>66753</b>	E240T12RS120N	75	67	0.86	0.66	✓				
		120-277	RS	<b>66754</b>	E240T12RS120-277N	75	67	0.86	0.66	✓				
		347	PRS	<b>10291</b>	E240T12PRS347/N	75	70	0.86	0.20	✓				
	F96T12	120	IS	<b>10301</b>	E296T12IS120/N	75	133	0.86	1.12		✓	✓	✓	
		120-277	IS	<b>61430</b>	E296T12IS120-277/N	75	133	0.86	1.12		✓	✓	✓	
		347	IS	<b>10302</b>	E296T12IS347/N	75	138	0.91	0.40		✓	✓	✓	

# T12HO

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated			
										F96T12HO F96T12HO/ES	F72T12HO F60T12HO F48T12HO	F36T12HO F24T12HO	F70T8 F58T8 F40T8
2	F48T12HO	120	PRS	<b>10332</b>	E260T12PRS120/N/HO	75	106	0.85	0.89		✓	✓	✓
	F96T12HO	120	RS	<b>61119</b>	E296T12RS120/N/HO/AS	75	195	0.89	1.65	✓	✓		
		347	PRS	<b>59658</b>	E296T12PRS347/N/HO	75	193	0.85	0.56	✓	✓		

IS= Instant Start RS=Rapid Start PS=Program Start PRS=Program Rapid Start





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# Magnetic Fluorescent T12

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Internal code	Description	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated		
										F14T12 F14T8	F15T12 F15T8	F40T12
2	F20T12	347	TS	<b>10214</b>	8G4767E	BM214STS347/TP/STD	59	0.93	0.18	✓	✓	
	F40T12	240	RS	<b>56604</b>	8G3917W	BM234SRS240/ES/TP/STD	92	0.85	0.40			✓

# T12HO

No. of lamps	Primary lamp type	Input volts (V)	Starting method	Order code	Internal code	Description	Input power ANSI (W)	Ballast factor	Input current (A)	Lamps operated		
										F24T12HO F36T12HO F60T12HO	F84T12HO F96T12HO F72T12HO	F96T12HOES
2	F48T12HO	120	RS	<b>10175</b>	8G3900W	BM22496SRS120/HO GLB	202	0.81	1.69	✓	✓	✓



# Electronic CFL - FLEXConnect

Ballast

Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Lamps operated				
					18W TTT 18W DTT 13W TTT 13W DTT 13W TTL	16W 2D	26W TTT 26W DTT	28W 2D 21W 2D 16W 2D	FC9T5
120-277	PS	<b>31276</b>	E21338-120-277-TDE FLX	75	2 or 1	2	1	1	1
347	PS	<b>31277</b>	E21338-347-TDE-FLX	75	2 or 1	2 or 1	1	1	1

Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Lamps operated				
					26W TTT 27W TTL 24W TTL	21W 2D	42W TTT 32W TTT 40W TTL 39W TTL 36W TTL	38W 2D 28W 2D	FC9T5 FC12T5
120-277	PS	<b>31278</b>	E22142-120-277-TDE FLX	90	2 or 1	2	1	1	1
347	PS	<b>31279</b>	E22142-347-TDE-FLX	90	2 or 1	2	1	1	1

Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Lamps operated				
					42W TTT 27W TTT 26W TTT	40W TTL 39W TTL 36W TTL	27W TTL	57W TTT 55W TTL 50W TTL	38W 2D
120-277	PS	<b>31526</b>	E22642-120-277-A-TDE FLX	90	2 or 1	2 or 1	2	1	1
347	PS	<b>31527</b>	E2642-347-A-TDE-FLX	90	2 or 1	2 or 1	2	1	1

Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Lamps operated				
					18W TTT 18W DTT 13W TTT	16W 2D	13W DTT	38W 2D 28W 2D 21W 2D	26W TTT 26W DTT FC9T5
120-277	PS	<b>10443</b>	ED21326-120-277-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	<b>10444</b>	ED21326-120-277-BLS GLB	75	2 or 1	2 or 1	2	1	1
347	PS	<b>10490</b>	ED21326-347-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	<b>10447</b>	ED21326-347-BLS GLB	75	2 or 1	2 or 1	2	1	1

Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Lamps operated				
					32W TTT 36W TTL	28W 2D 21W 2D	26W TTT 24W TTL	42W TTT 50W TTL 40W TTL	FC12T5
120-277	PS	<b>10445</b>	ED22150-120-277-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	<b>10446</b>	ED22150-120-277-BLS GLB	75	2 or 1	2 or 1	2	1	1
347	PS	<b>10448</b>	ED22150-347-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	<b>10449</b>	ED22150-347-BLS GLB	75	2 or 1	2 or 1	2	1	1
	PS	<b>31006</b>	E22150-347-SL GLB	90	2 or 1	2 or 1	2	1	1

Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Lamps operated			
					40W TTL	39W TTL	36W TTL	28W TTL (40W ES)
120-277	PS	<b>10469</b>	E23640-120-SL GLB	90	2 or 1	2 or 1	2 or 1	2 or 1
347	PS	<b>10470</b>	E23640-347-SL GLB	90	2 or 1	2 or 1	2 or 1	2 or 1

Input volts (V)	Starting method	Order code	Description	Max. case temp. (°C)	Lamps operated						
					10W 2D 16W 2D 21W 2D 28W 2D	10W TTT 13W TTT 18W TTT 26W TTT 18W TTL 24W TTL	5W TT 7W TT 9W TT 11W TT 13W TT F14T12	F4T5 F6T5 F8T5 F13T5 F14T5 F21T5 F28T5	F13T8 F14T8 F15T8 F16T8 F17T8 F18T8 F25T8		
120	IS	<b>59591</b>	E1528-120-SL GLB	70	1	1	1	1	1		
347	IS	<b>10457</b>	E1528-347-SL GLB	70	1	1	1	1	1		

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IS= Instant Start RS=Rapid Start PS=Program Start PRS=Program Rapid Start





# Magnetic HID

## Pulse Start

Lamp watts	ANSI code	Input volts	Order code	Description	Type	Circuit type	Input power ANSI (W)	Max. input current (A)
(W)		(V)						
39	M130	120	<b>16603</b>	BMH0035/39/120/C/HX/N	Core and coil	HX-HPF	54	0.35
50	M110	120 / 277 / 347	<b>62929</b>	BMH0050/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	70	0.60 / 0.25 / 0.20
		120 / 208 / 240 / 277	<b>62940</b>	BMH0050/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	67	0.50 / 0.30 / 0.25 / 0.20
70	M98	120 / 277 / 347	<b>62930</b>	BMH0070/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	93	0.80 / 0.40 / 0.30
		120 / 277 / 347	<b>10068</b>	BMH0070/TRITAP/F/HX/H/STD	F-Can	HX-HPF	94	0.66 / 0.30 / 0.23
		120 / 208 / 240 / 277	<b>62941</b>	BMH0070/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	93	0.70 / 0.45 / 0.35 / 0.35
100	M90	120 / 277 / 347	<b>62931</b>	BMH0100/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	129	1.30 / 0.60 / 0.50
		120 / 277 / 347	<b>10069</b>	BMH0100/TRITAP/F/HX/H/STD	F-Can	HX-HPF	125	0.90 / 0.36 / 0.30
		120 / 208 / 240 / 277	<b>62942</b>	BMH0100/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	125	1.50 / 0.90 / 0.75 / 0.65
150	M102	120 / 277 / 347	<b>62932</b>	BMH0150/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	188	1.85 / 0.85 / 0.70
		120 / 277 / 347	<b>10070</b>	BMH0150/TRITAP/F/HX/H/STD	F-Can	HX-HPF	185	1.50 / 0.70 / 0.55
		120 / 208 / 240 / 277	<b>10116</b>	BMH0150/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	185	2.95 / 1.75 / 0.45 / 0.30
175	M152	120 / 277 / 347	<b>59640</b>	BMHP0175/TRITAP/C/CWA/H STD	Core and coil	CWA	208	1.10 / 0.50 / 0.40
200	M136	120 / 277 / 347	<b>16624</b>	BMHP0200/TRITAP/C/CWA/H	Core and coil	CWA	232	1.15 / 0.50 / 0.40
250	M153	120 / 277 / 347	<b>59641</b>	BMHP0250/TRITAP/C/CWA/H STD	Core and coil	CWA	288	1.65 / 0.75 / 0.60
320	M154	120 / 277 / 347	<b>59642</b>	BMHP0320/TRITAP/C/CWA/H STD	Core and coil	CWA	368	1.60 / 0.70 / 0.55
350	M131	120 / 277 / 347	<b>16627</b>	BMHP0350/TRITAP/C/CWA/H	Core and coil	CWA	400	1.80 / 0.78 / 0.40
400	M155	120 / 277 / 347	<b>59639</b>	BMHP0400/TRITAP/C/CWA/H STD	Core and coil	CWA	452	2.35 / 1.05 / 0.85
450	M144	120 / 277 / 347	<b>16629</b>	BMHP0450/TRITAP/C/CWA/H	Core and coil	CWA	508	2.90 / 1.27 / 1.00
874	M166	120 / 277 / 347	<b>56523</b>	BMHP0875/TRITAP/C/CWA/H	Core and coil	CWA	940	6.50 / 2.85 / 2.25
1000	M141	120 / 277 / 347	<b>16732</b>	BMHP1000/TRITAP/C/CWA/H	Core and coil	CWA	1 080	7.55 / 3.25 / 2.60



## Metal Halide

Lamp watts (W)	ANSI code	Input volts (V)	Order code	Description	Type	Circuit type	Input power ANSI (W)	Max. input current (A)
175	M57	120 / 208 / 240	<b>10059</b>	BMH0175/120/208/240/C/CWI/H/K/	Core and coil	CWI	215	0.82 / 0.48 / 0.41
		120 / 277 / 347	<b>62933</b>	BMH0175/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	210	1.10 / 0.45 / 0.35
		120 / 277 / 347	<b>10071</b>	BMH0175/TRITAP/F/CWA/H/STD	F-Can	CWA	205	1.15 / 0.50 / 0.40
		120 / 208 / 240 / 277	<b>62920</b>	BMH0175/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	213	1.30 / 0.75 / 0.65 / 0.57
		120 / 208 / 240 / 277 / 480	<b>61690</b>	BMH0175/5TAP/C/CWA/H/K/STD	Core and coil	CWA	210	1.80 / 1.04 / 0.90 / 0.78 / 0.45
		347 / 480 / 600	<b>10060</b>	BMH0175/347/480/600/C/CWI/H/K/	Core and coil	CWI	215	0.30 / 0.22 / 0.17
250	M58	120 / 208 / 240	<b>10061</b>	BMH0250/120/208/240/C/CWI/H/K/	Core and coil	CWI	292	0.90 / 0.52 / 0.45
		120 / 277 / 347	<b>62934</b>	BMH0250/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	290	2.10 / 0.90 / 0.70
		120 / 277 / 347	<b>10072</b>	BMH0250/TRITAP/F/CWA/H/STD	F-Can	CWA	295	1.85 / 0.80 / 0.65
		120 / 208 / 240 / 277	<b>10118</b>	BMH0250/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	290	1.75 / 1.05 / 0.90 / 0.77
		120 / 208 / 240 / 277 / 480	<b>61691</b>	BMH0250/5TAP/C/CWA/H/K/STD	Core and coil	CWA	290	2.50 / 1.45 / 1.25 / 1.10 / 0.63
		347 / 480 / 600	<b>10062</b>	BMH0250/347/480/600/C/CWI/H/K/	Core and coil	CWI	292	0.30 / 0.22 / 0.17
400	M59	120 / 208 / 240	<b>10063</b>	BMH0400/120/208/240/C/CWI/H/K/	Core and coil	CWI	462	0.98 / 0.70 / 0.49
		120 / 277 / 347	<b>10054</b>	BMH0400/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	458	3.10 / 1.40 / 1.10
		120 / 277 / 347	<b>10073</b>	BMH0400/TRITAP/F/CWA/H/STD	F-Can	CWA	460	3.15 / 1.35 / 1.10
		120 / 277 / 347	<b>31177</b>	BMH0400/TRITAP/REM/CWA/H/STD	Remote	CWA	458	3.10 / 1.40 / 1.10
		120 / 208 / 240 / 277	<b>10055</b>	BMH0400/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	458	3.00 / 1.75 / 1.50 / 1.30
		120 / 208 / 240 / 277 / 480	<b>61692</b>	BMH0400/5TAP/C/CWA/H/K/STD	Core and coil	CWA	458	4.00 / 2.30 / 2.00 / 1.70 / 1.00
		347 / 480 / 600	<b>10064</b>	BMH0400/347/480/600/C/CWI/H/K/	Core and coil	CWI	462	0.33 / 0.23 / 0.19
1000	M47	120 / 208 / 240	<b>10065</b>	BMH1000/120/208/240/C/CWI/H/K/	Core and coil	CWI	1 080	4.37 / 2.55 / 2.20
		120 / 277 / 347	<b>62935</b>	BMH1000/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	1 100	5.10 / 2.15 / 1.70
		120 / 277 / 347	<b>31184</b>	BMH1000/TRITAP/REM/CWA/H/STD	Remote	CWA	80	5.90 / 3.25 / 2.60
		120 / 208 / 240 / 277	<b>10057</b>	BMH1000/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	1 080	7.30 / 4.30 / 3.70 / 3.20
		347 / 480 / 600	<b>10066</b>	BMH1000/347/480/600/C/CWI/H/K/	Core and coil	CWI	1 100	1.52 / 1.10 / 0.90
		347 / 480 / 600	<b>31190</b>	BMH1000/347/480/600/REM/CWI/H/	Remote	CWI	100	1.52 / 1.10 / 0.90
1500	M48	120 / 277 / 347	<b>10058</b>	BMH1500/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	1 605	10.70 / 4.70 / 3.65

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## High Pressure Sodium

Lamp watts (W)	ANSI code	Input volts (V)	Order code	Description	Type	Circuit type	Input power ANSI (W)	Max. input current (A)
35	S76	120	<b>10019</b>	BHPS0035/120/C/R/K/STD	Core and coil	R-HPF	45	0.50
		120	<b>59284</b>	BHPS0035/120/C/R/INT IGN/STD	Core and coil	R-HPF	45	1.02
		347	<b>16547</b>	BHPS0035/347/C/HX/H	Core and coil	HX-HPF	54	0.25
50	S68	120	<b>10020</b>	BHPS0050/120/C/R/K/STD	Core and coil	R-HPF	60	0.62
		120	<b>59285</b>	BHPS0050/120/C/R/INT IGN/STD	Core and coil	R-HPF	62	1.15
		347	<b>16549</b>	BHPS0050/347/C/HX/H	Core and coil	HX-HPF	75	0.55
70	S62	120	<b>10021</b>	BHPS0070/120/C/R/K/STD	Core and coil	R-HPF	81	0.78
		120	<b>59286</b>	BHPS0070/120/C/R/INT IGN/STD	Core and coil	R-HPF	84	1.36
		120 / 277 / 347	<b>62922</b>	BHPS0070/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	91	0.95 / 0.45 / 0.35
		120 / 208 / 240 / 347	<b>10037</b>	BHPS0070/QUADTAP/C/CWI/H/K/STD	Core and coil	CWI	95	0.42 / 0.24 / 0.20 / 0.14
100	S54	120 / 208 / 240 / 277	<b>62936</b>	BHPS0070/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	93	0.85 / 0.50 / 0.45 / 0.35
		120	<b>10022</b>	BHPS0100/120/C/R/K/STD	Core and coil	R-HPF	120	1.19
		120	<b>59287</b>	BHPS0100/120/C/R/INT IGN/STD	Core and coil	R-HPF	115	2.50
		120 / 277 / 347	<b>62923</b>	BHPS0100/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	127	1.00 / 0.45 / 0.35
150	S55	120 / 208 / 240 / 347	<b>10038</b>	BHPS0100/QUADTAP/C/CWI/H/K/STD	Core and coil	CWI	130	0.55 / 0.30 / 0.26 / 0.18
		120 / 208 / 240 / 277	<b>62937</b>	BHPS0100/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	122	1.20 / 0.70 / 0.60 / 0.52
		120	<b>62921</b>	BHPS0150/120/C/R/K/STD	Core and coil	R-HPF	170	2.75
		120	<b>59283</b>	BHPS0150/120/C/R/INT IGN/STD	Core and coil	R-HPF	170	3.97
		120 / 277 / 347	<b>62924</b>	BHPS0150/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	188	1.50 / 0.70 / 0.60
		120 / 208 / 240 / 347	<b>10039</b>	BHPS0150/QUADTAP/C/CWI/H/K/STD	Core and coil	CWI	190	0.65 / 0.38 / 0.32 / 0.23
250	S50	120 / 208 / 240 / 277	<b>62938</b>	BHPS0150/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	189	1.55 / 1.00 / 0.80 / 0.70
		600	<b>16586</b>	BHPS0150/600/C/CWI/H	Core and coil	CWI	190	0.29 / 0.21 / 0.17
		120 / 208 / 240	<b>10040</b>	BHPS0250/120/208/240/C/CWI/H/K	Core and coil	CWI	290	0.87 / 0.51 / 0.44
		120 / 277 / 347	<b>62925</b>	BHPS0250/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	290	2.10 / 0.90 / 0.75
		120 / 208 / 240 / 277	<b>10111</b>	BHPS0250/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	295	1.75 / 1.00 / 0.90 / 0.80
400	S51	347 / 480 / 600	<b>10041</b>	BHPS0250/347/480/600/C/CWI/H/K	Core and coil	CWI	290	0.31 / 0.23 / 0.17
		120 / 208 / 240	<b>10042</b>	BHPS0400/120/208/240/C/CWI/H/K	Core and coil	CWI	465	0.88 / 0.50 / 0.44
		120 / 208 / 240	<b>16631</b>	BHPS0400/120/208/240/REM/CWI/H	Remote	CWI	465	0.88 / 0.50 / 0.44
		120 / 277 / 347	<b>62926</b>	BHPS0400/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	465	4.00 / 1.80 / 1.40
		120 / 208 / 240 / 277	<b>62939</b>	BHPS0400/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	467	3.85 / 2.20 / 1.90 / 1.70
		120 / 208 / 240 / 277 / 480	<b>61695</b>	BHPS0400/5TAP/C/CWA/H/K/STD	Core and coil	CWA	464	3.80 / 2.20 / 1.90 / 1.70 / 1.00
430	S145	347 / 480 / 600	<b>10043</b>	BHPS0400/347/480/600/C/CWI/H/K	Core and coil	CWI	465	0.54 / 0.40 / 0.32
		120 / 208 / 240 / 277	<b>10034</b>	BHPS0430/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	492	4.00 / 2.30 / 2.00 / 1.73
1000	S52	120 / 208 / 240	<b>10046</b>	BHPS1000/120/208/240/C/CWI/H/K	Core and coil	CWI	1 100	4.22 / 2.44 / 2.07
		120 / 277 / 347	<b>62927</b>	BHPS1000/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	1 120	12.5 / 5.50 / 4.50
		120 / 208 / 240 / 277	<b>62928</b>	BHPS1000/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	1 100	8.50 / 4.80 / 4.10 / 3.60
		120 / 208 / 240 / 277 / 480	<b>61696</b>	BHPS1000/5TAP/C/CWA/H/K/STD	Core and coil	CWA	1 100	9.50 / 5.50 / 4.70 / 4.10 / 2.40
		347 / 480 / 600	<b>10047</b>	BHPS1000/347/480/600/C/CWI/H/K	Core and coil	CWI	1 100	1.50 / 1.13 / 0.90





# Capacitator

Ballast



## High Pressure Sodium

Order code	Description	Microfarads (µf)	Voltage (V)	Case temperature (°C)	Capacitor type	Contains PCB	Figure
16569	26MF 525VAC OIL CAPACITOR	26	525	100	Oil Filled	No	B
16582	55MF 300VAC DRY CAPACITOR	55	300	100	Dry Film	No	E
31213	35MF 240VAC DRY CAPACITOR	35	240	100	Dry Film	No	F
31335	14MF 280 VAC DRY CAPACITOR	14	280	100	Dry Film	No	A
31341	20MF 560VAC DRY CAPACITOR	20	560	100	Dry Film	No	G
31343	21MF 630VAC DRY CAPACITOR	21	630	100	Dry Film	No	G
31347	26MF 530VAC DRY CAPACITOR	26	530	100	Dry Film	No	H
59785	55MF 120VAC DRY CAPACITOR	55	120	105	Dry Film	No	E



## Metal Halide

Order code	Description	Microfarads (µf)	Voltage (V)	Case temperature (°C)	Capacitor type	Contains PCB	Figure
16573	32MF 525VAC OIL CAPACITOR	32	525	100	Oil Filled	No	A
31058	24MF 480VAC OIL CAPACITOR	24	480	100	Oil Filled	No	A
31206	10MF 400VAC DRY CAPACITOR	10	400	100	Dry Film	No	B
31207	24MF 400VAC DRY CAPACITOR	24	400	100	Dry Film	No	C
31332	12MF 480VAC DRY CAPACITOR	12	480	100	Dry Film	No	D
31340	20MF 440VAC DRY CAPACITOR	20	440	100	Dry Film	No	E
31349	32MF 525VAC DRY CAPACITOR	32	525	100	Dry Film	No	E

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Figure A



Figure B



Figure C



Figure F

## Pulse Start Metal Halide

Order code	Description	Microfarads (µf)	Voltage (V)	Case temperature (°C)	Capacitor type	Contains PCB	Figure
16566	22MF 330VAC DRY CAPACITOR	22	330	100	Dry Film	No	A
31208	24MF 480VAC DRY CAPACITOR	24	480	100	Dry Film	No	B
31209	15MF 400VAC DRY CAPACITOR	15	400	100	Dry Film	No	C
59553	26MF 400VAC DRY CAPACITOR	26	400	100	Dry Film	No	F

## Ignitor

### High Pressure Sodium



Figure A



Figure B



Figure C



Figure D

Order code	Description	Watts (W)	Circuit	ANSI code	Distance ballast to lamp (ft.)	Case temperature (°C)	Case shape	Figure
16645	IGN35150HPS/R/A	35	R	S76	2	105	Round	A
		50	HX	S68	2	105	Round	
		50	R	S68	2	105	Round	
		70	HX	S62	2	105	Round	
		70	R	S62	2	105	Round	
		100	HX	S54	2	105	Round	
		100	R	S54	2	105	Round	
		150	HX	S55	2	105	Round	
		150	R	S55	2	105	Round	
16650	IGN35150HPS/LI/H/PT/B	35	HX	S76	3	105	Round	B
		50	HX	S68	12	105	Round	
		70	HX	S62	5	105	Round	
		100	HX	S54	5	105	Round	
		150	HX	S55	12	105	Round	
16652	IGN35150HPS/R/LR/A	35	R	S76	15	105	Round	C
		50	HX	S68	35	105	Round	
		50	R	S68	15	105	Round	
		70	HX	S62	35	105	Round	
		70	R	S62	15	105	Round	
		100	HX	S54	35	105	Round	
		100	R	S54	15	105	Round	
		150	HX	S55	35	105	Round	
		150	R	S55	15	105	Round	
16653	IGN35150HPS/R/PT/B	35	R	S76	2	105	Round	D
		50	R	S68	2	105	Round	
		70	R	S62	2	105	Round	
		100	R	S54	2	105	Round	
		150	R	S55	2	105	Round	



H: 2 5/8" (66.5 mm)  
Ø: 1 1/4" (32 mm)

Figure A



H: 2 5/16" (59 mm)  
Ø: 1 3/8" (35 mm)

Figure B

Order code	Description	Watts (W)	Circuit	ANSI code	Distance ballast to lamp (ft.)	Case temperature (°C)	Case shape	Figure
16654	IGN35150HPS/R/QC/B	35	R	S76	2	105	Round	A
		50	R	S68	2	105	Round	
		70	R	S62	2	105	Round	
		100	R	S54	2	105	Round	
		150	R	S55	2	105	Round	
62987	IGN35150HPS/H/STD	35	R	S76	2	105	Round	B
		50	H	S68	10	105	Round	
		50	R	S68	2	105	Round	
		70	H	S62	10	105	Round	
		70	R	S62	2	105	Round	
		100	H	S54	10	105	Round	
		100	R	S54	2	105	Round	
		150	H	S55	10	105	Round	
		150	R	S55	2	105	Round	
16651	IGN50150HPS/LI/H/QC/B	50	CWI	S68	12	105	Round	A
		70	CWI	S62	12	105	Round	
		100	CWI	S54	12	105	Round	
		150	CWI	S55	3	105	Round	





Figure A



Figure B



Figure C



Figure E



Figure G

Order code	Description	Watts (W)	Circuit	ANSI code	Distance ballast to lamp (ft.)	Case temperature (°C)	Case shape	Figure
31372	IGN150430HPS/AI/A	150	R	S56	2	105	Round	A
		150	CWA	S56	2	105	Round	
		200	R	S66	2	105	Round	
		200	CWA	S66	2	105	Round	
		250	R	S50	2	105	Round	
		250	CWA	S50	2	105	Round	
		310	R	S67	2	105	Round	
		310	CWA	S67	2	105	Round	
		400	R	S51	2	105	Round	
		400	CWA	S51	2	105	Round	
		430	CWI	S145	15	105	Round	
62988	IGN200400HPS/AI/STD	200	CWA	S66	10	105	Round	B
		250	CWA	S50	10	105	Round	
		400	CWA	S51	10	105	Round	
16649	IGN200430HPS/AI/QC/B	200	CWI	S66	12	105	Round	C
		250	CWI	S50	12	105	Round	
		400	CWI	S51	2	105	Round	
		430	CWI	S145	2	105	Round	
62989	IGN7501000HPS/AI/STD	1 000	CWA	S52	15	105	Round	E
16656	IGN1000HPS/AI/PT/B	1 000	CWA	S52	5	105	Oval	G
		1 000	CWI	S52	12	105	Oval	

## Metal Halide



H : 2 1/2" (63.5 mm)  
Ø : 1 1/4" (32 mm)

Figure A



H : 2 5/16" (59 mm)  
Ø : 1 3/8" (35 mm)

Figure B

Order code	Description	Watts (W)	Circuit	ANSI code	Distance ballast to lamp (ft.)	Case temperature (°C)	Case shape	Figure
16659	IGN35450MH/L/H/A	35	R	M130	10	105	Round	A
		35	HX	M130	15	105	Round	
		50	R	M110/148	2	105	Round	
		50	HX	M110/148	10	105	Round	
		70	R	M98/143	10	105	Round	
		70	HX	M98/143	15	105	Round	
		100	R	M90/140	2	105	Round	
		100	HX	M90/140	20	105	Round	
		100	CWA	M90/140	2	105	Round	
		150	R	M102/142	2	105	Round	
		150	HX	M102/142	10	105	Round	
		175	CWA	M137/152	2	105	Round	
		200	CWA	M136	2	105	Round	
		250	CWA	M138/153	5	105	Round	
		320	CWA	M132/154	2	105	Round	
		350	CWA	M131	2	105	Round	
		400	CWA	M135/55	10	105	Round	
400	CWI	M135/55	2	105	Round			
450	CWA	M144	5	105	Round			
62990	IGN50450MH/H/STD	50	HX	M110	15	105	Round	B
		50	R	M110	2	105	Round	
		70	HX	M98	25	105	Round	
		70	R	M98	10	105	Round	
		100	HX	M90	20	105	Round	
		100	R	M90	2	105	Round	
		150	HX	M102	10	105	Round	
		150	R	M102	2	105	Round	
		175	CWA	M137/M152	2	105	Round	
		200	CWA	M136	2	105	Round	
		250	CWA	M138/M153	5	105	Round	
		320	CWA	M132	2	105	Round	
		350	CWA	M131	2	105	Round	
		400	CWA	M155	10	105	Round	
		450	CWA	M144	5	105	Round	



H: 1.31/32" (50 mm)  
Ø: 1.3/8" (35 mm)

Figure B



H: 2.5/16" (59 mm)  
Ø: 1.3/8" (35 mm)

Figure C

Order code	Description	Watts (W)	Circuit	ANSI code	Distance ballast to lamp (ft.)	Case temperature (°C)	Case shape	Figure
31375	IGN175450MH/L/H/STD	175	CWA	M137	2	105	Oval	B
		250	CWA	M138	2	105	Oval	
		400	CWA	M135	2	105	Oval	
		450	CWA	M144	2	105	Oval	
62989	IGN7501000HPS-MH/AI/STD	750	CWA	M149	15	105	Round	C
		875	CWA	M166	10	105	Round	
		1 000	CWA	M141	15	105	Round	

# Electronic HID

Order code	Description	No. of lamps	Lamp watts (W)	ANSI code	Input volts (V)	Input power	Regulation	Power factor	THD	Max. distance to lamp (ft.)	Max. input current (A)
61509	EMH0039/120-277/BLS/STD	1	39	M130	120 -277	44	± 5%	> 0.95	< 15%	5	0.37 / 0.17

# Lamp & Ballast kit

Ballast

All the components to install an HID fixture are conveniently packed into a single box, ensuring that the installation can be completed all at once: lamp, capacitor (if required), ignitor (if required), mounting brackets, prewired ballast and hardware.



Order code	Description	Lamp watts (W)	ANSI code	Input volts (V)	Circuit type	Lamp shape	Lamp base	Lamp finish	Luminaire
<b>Metal Halide</b>									
61839	LBK/BMH0070/TRITAP/C/HX/MED	70	M98	120/277/347	HX-HPF	EDX17	E26	Clear	Open
61840	LBK/BMH0100/TRITAP/C/HX/MED	100	M90	120/277/347	HX-HPF	EDX17	E26	Clear	Open
61841	LBK/BMH0150/TRITAP/C/HX/MED	150	M102	120/277/347	HX-HPF	EDX17	E26	Clear	Open
60986	LBK/BMH0175/TRITAP/C/CWA/MED	175	M57	120/277/347	CWA	ED17	E26	Clear	Enclosed
60985	LBK/BMH0175/TRITAP/C/CWA/MOG	175	M57	120/277/347	CWA	ED28	E39	Clear	Enclosed
60987	LBK/BMH0250/TRITAP/C/CWA/MOG	250	M58	120/277/347	CWA	ED28	E39	Clear	Enclosed
60988	LBK/BMH0400/TRITAP/C/CWA/MOG	400	M59	120/277/347	CWA	ED37	E39	Clear	Enclosed
61008	LBK/BMHP0400/TRITAP/C/CWA/MOG	400	M155	120/277/347	CWA	ED37	E39	Clear	Enclosed
<b>High Pressure Sodium</b>									
60994	LBK/BHPS0050/120/C/R/MED	50	S68	120	R-HPF	ED17	E26	Clear	Open
60995	LBK/BHPS0070/120/C/R/MED	70	S62	120	R-HPF	ED17	E26	Clear	Open
61010	LBK/BHPS0070/TRITAP/C/HX/MED	70	S62	120/277/347	HX-HPF	ED17	E26	Clear	Open
61011	LBK/BHPS0070/TRITAP/C/HX/MOG	70	S62	120/277/347	HX-HPF	ED23.5	E39	Clear	Open
60996	LBK/BHPS0100/120/C/R/MED	100	S54	120	R-HPF	ED17	E26	Clear	Open
61012	LBK/BHPS0100/TRITAP/C/HX/MED	100	S54	120/277/347	HX-HPF	ED17	E26	Clear	Open
61013	LBK/BHPS0100/TRITAP/C/HX/MOG	100	S54	120/277/347	HX-HPF	ED23.5	E39	Clear	Open
61009	LBK/BHPS0150/120/C/R/MED	150	S55	120	R-HPF	ED17	E26	Clear	Open
61002	LBK/BHPS0150/TRITAP/C/HX/MED	150	S55	120/277/347	HX-HPF	ED17	E26	Clear	Open
61003	LBK/BHPS0150/TRITAP/C/HX/MOG	150	S55	120/277/347	HX-HPF	ED23.5	E39	Clear	Open
61004	LBK/BHPS0250/TRITAP/C/CWA/MOG	250	S50	120/277/347	CWA	ET18	E39	Clear	Open
61005	LBK/BHPS0400/TRITAP/C/CWA/MOG	400	S51	120/277/347	CWA	ET18	E39	Clear	Open

# Electronic Sign

Order code	Description	No. of lamps	Input volts	Max. case temp	Input power	Line current <sup>1</sup>	Open circuit volts	Min starting temp.	T8HO lamp footage (ft.)		T12HO lamp footage (ft.)	
			(V)	(°C)	(W)	(A)	(V)	(°C)	Min.	Max.	Min.	Max.
61015	ESB/12/216/UV/STD	1, 2	120 - 277	90	131	1.20	800	-29	4	12	2	16
61016	ESB/13/432/UV/STD	1, 2, 3	120 - 277	90	267	2.40	800	-29	4	24	4	32
61019	ESB/34/432/UV/STD	3, 4	120 - 277	90	267	2.40	800	-29	4	24	4	32
64172	ESB/14/1040/UV/STD	1, 2, 3, 4	120 - 277	90	352	3.00	1000	-29	8	32	10	40
61017	ESB/46/848/UV/STD	4, 5, 6	120 - 277	90	410	3.50	860	-29	16	36	8	48

07

# Electronic Transformer

Order code	Description	Input volts	Output volts	Input watts	Input current	Power factor	Auto reset	Dimmable	Min. starting temp.	Max. starting temp.	Dimensions
		(V)	(V)	(W)	(A)				(°C)	(°C)	L x W x H (mm)
61951 <sup>2</sup>	T120V/150W/AR/STD	120	11.4	150	1.27	0.99	Yes	Yes	-18	75	104 x 35 x 28

<sup>1</sup>Based off T12HO lamps at 120V

<sup>2</sup>Electronic halogen transformers are not designed to be compatible with LED MR16 replacement lamps. Using LED lamps with a halogen transformer may cause the lamps to flicker, strobe, or shut down.

