



Ballast Quick Finder



A Ballast for all your Lighting Needs!



WAREHOUSE



HOSPITAL



RETAIL



INDUSTRIAL



RESTAURANT



OFFICE



HOSPITALITY





RESIDENTIAL



EDUCATIONAL



COMMERCIAL

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  and .

Types of Ballasts

- ▶ Electronic Fluorescent (T5, T8, T12)
- ▶ Magnetic Fluorescent (T8, T12HO)
- ▶ Electronic CFL
- ▶ Magnetic HID
- ▶ HID Lamps & Ballast Kits
- ▶ Electronic HID
- ▶ Electronic Sign
- ▶ Electronic Halogen Transformers

Warranty

5
YEARS

Electronic linear & CFL ballast (75 °C)
Electronic dimming ballast (70 °C)

3
YEARS

Electronic linear and CFL ballast (90 °C)
Energy saving magnetic fluorescent ballast
Magnetic HID ballast
Electronic sign ballast
Electronic HID ballast

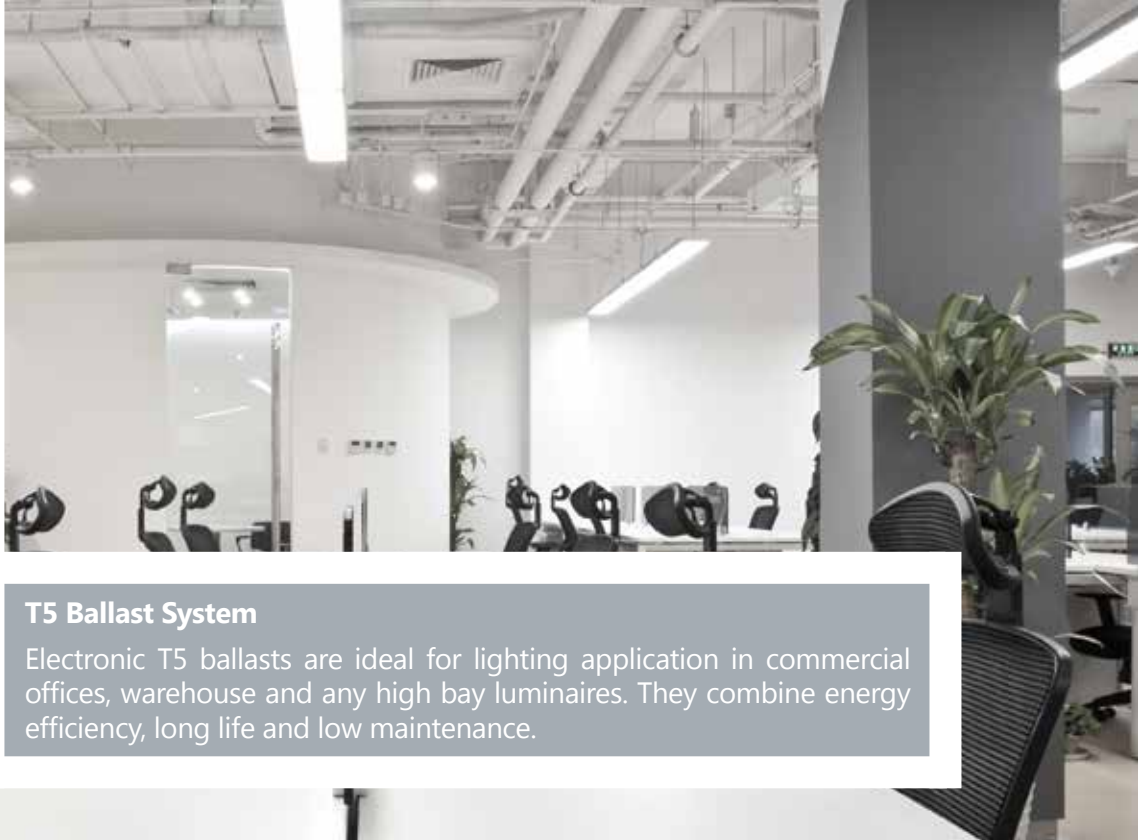
2
YEARS

Magnetic fluorescent ballast
Halogen transformer
Allanson sign ballast

ONE SYSTEM
WARRANTY

We also offer a One System Warranty when STANDARD brand lamps and ballasts are used together. For complete warranty details as well as terms and conditions, **please visit www.standardpro.com.**





T5 Ballast System

Electronic T5 ballasts are ideal for lighting application in commercial offices, warehouse and any high bay luminaires. They combine energy efficiency, long life and low maintenance.

T5

PS=Program Start

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
2	F21T5	120-277	PS	10476	E221T5PS120-277/N	75	47	1.00	0.40	✓				
	F24T5	120-277	PS	10477	E224T5PS120-277/N	75	46	0.90	0.38		✓			
	F28T5	120-277	PS	60105	E228T5PS120-277/N/BULK	75	60	1.00	0.51	✓		✓	✓	
				60102	E228T5PS347/N/BULK	75	61	1.00	0.18	✓		✓	✓	
	F35T5	120-277	PS	10460	E235T5PS120-277/N	75	84	0.90	0.69			✓		✓
				10461	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
1	F54T5HO	120-277	PS	57641	E154T5PS120-277/N/HO	75	55	0.85	0.45	✓		✓	✓
2	F54T5HO	120-277	PS	63025	E254T5HOPS120-277/N/XTRM	90	116	0.99	0.97	✓	✓	✓	✓
		347	PS	63026	E254T5HOPS347/N/XTRM	90	116	1.00	0.33	✓	✓	✓	✓
4	F54T5HO	120-277	PS	63027	E454T5HOPS120-277/N/XTRM	90	232	0.99	1.92	✓	✓	✓	✓
		347	PS	63028	E454T5HOPS347/N/XTRM	90	238	1.00	0.68	✓	✓	✓	✓



Electronic Fluorescent Ballasts

The Opportunity

In a typical high, open ceiling warehouse application, it is possible to provide high quality lighting that illuminates the warehouse floor and task areas to recognized standards, and meets or beats the local energy codes – allowing for better task lighting, ultimately improving productivity.

The Solution

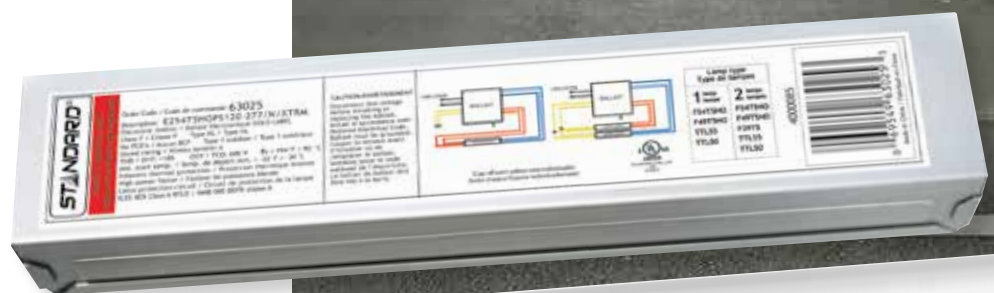
Convert your HID metal halide system to a more efficient T5HO system. Switch your lamps and ballasts from 400 W metal halide to a 6 lamp T5HO system.

The Benefits

- ▶ Energy savings
- ▶ Increase productivity
- ▶ Protection of the environment
- ▶ Increase or improvement of light quality
- ▶ Reduction of maintenance costs

	400 W HID High Bay Metal Halide Pulse Start	Fluorescent High Bay Luminaire 6 Lamps T5HO
Number of luminaires	47	44
Luminaire wattage (W)	452	362
Power factor	0.90	0.98
Total wattage (W)	21 244	15 928
Cost/kWh	\$0.10	\$0.10
Annual operating hours	6 000	6 000
Annual electricity cost (kVAh)	\$14 163	\$9 752

Annual savings of **\$4 411**





T8

IS=Instant Start PS=Program Start

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	31010	E132T8IS120/N	75	28	0.90	0.23	✓	✓	✓	✓	✓
			IS	31037	E132T8IS120/L	75	25	0.78	0.21	✓	✓	✓	✓	✓
			IS	56556	E132T8IS120/L/BULK	75	25	0.78	0.21	✓	✓	✓	✓	✓
		IS	56557	E132T8IS347/L/BULK	75	25	0.78	0.07	✓	✓	✓	✓	✓	

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
2	F32T8	120	IS	61113	E232T8IS120/N/AS	75	55	0.87	0.49	✓	✓	✓	✓	✓
			IS	61124	E232T8IS120/N/AS/BULK	75	55	0.87	0.49	✓	✓	✓	✓	✓
			IS	56558	E232T8IS120/L/BULK	75	48	0.77	0.39	✓	✓	✓	✓	✓
			IS	61123	E232T8IS120/L/AS	75	48	0.77	0.45	✓	✓	✓	✓	✓
			IS	61126	E232T8IS120/L/AS/BULK	75	48	0.77	0.45	✓	✓	✓	✓	✓
			IS	60075	E232T8IS120/H/90C	90	74	1.20	0.64	✓	✓	✓	✓	✓
		120-277	IS	61128	E232T8IS120-277/N/AS	75	55	0.89	0.46	✓	✓	✓	✓	✓
			IS	61130	E232T8IS120-277/N/AS/BULK	75	55	0.89	0.46	✓	✓	✓	✓	✓
			IS	61131	E232T8IS120-277/L/AS	75	48	0.77	0.40	✓	✓	✓	✓	✓
			IS	61132	E232T8IS120-277/L/AS/BULK	75	48	0.77	0.40	✓	✓	✓	✓	✓
			PS	61061	E232T8PS120-277/N/AS/BULK	90	57	0.88	0.48	✓	✓	✓	✓	✓
			PS	61062	E232T8PS120-277/L/AS/BULK	90	52	0.78	0.43	✓	✓	✓	✓	✓
		347	PS	57031	E232T8PS120-277/H/XTRM	90	75	1.20	0.62	✓	✓	✓	✓	✓
			IS	10293	E232T8IS347/N	75	55	0.87	0.16	✓	✓	✓	✓	✓
			IS	31549	E232T8IS347/N/BULK	75	55	0.87	0.16	✓	✓	✓	✓	✓
			IS	58278	E232T8IS347/L/BULK	75	50	0.76	0.14	✓	✓	✓	✓	✓
			IS	60076	E232T8IS347/H/90C	90	74	1.20	0.21	✓	✓	✓	✓	✓
			PS	62992	E232T8PS347/N/AS/BULK	75	56	0.88	0.16	✓	✓	✓	✓	✓
			PS	62993	E232T8PS347/L/AS/BULK	75	47	0.71	0.14	✓	✓	✓	✓	✓
			PS	59741	E232T8PS347/H/XTRM	90	75	1.20	0.22	✓	✓	✓	✓	✓



Electronic Fluorescent Ballasts



T8

IS=Instant Start PS=Program Start

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	61122	E332T8IS120/N/AS	75	84	0.88	0.71	✓	✓	✓	✓	✓
			IS	60080	E332T8IS120/L/90C/BULK	90	73	0.78	0.20	✓	✓	✓	✓	✓
		347	IS	10365	E332T8IS347/N	75	83	0.87	0.24	✓	✓	✓	✓	✓
			IS	60079	E332T8IS347/L/90C/BULK	90	73	0.77	0.61	✓	✓	✓	✓	✓

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
4	F32T8	120	IS	61114	E432T8IS120/N/AS	75	110	0.88	0.93	✓	✓	✓	✓	✓
			IS	61125	E432T8IS120/N/AS/BULK	75	110	0.88	0.93	✓	✓	✓	✓	✓
			IS	61120	E432T8IS120/L/AS	90	96	0.77	0.82	✓	✓	✓	✓	✓
			IS	61127	E432T8IS120/L/AS/BULK	90	96	0.77	0.82	✓	✓	✓	✓	✓
			IS	59770	E432T8IS120/H/90C	90	140	1.10	1.17	✓	✓	✓	✓	✓
		120-277	IS	61129	E432T8IS120-277/N/AS	75	110	0.88	0.94	✓	✓	✓	✓	✓
			IS	61134	E432T8IS120-277/L/AS	75	98	0.77	0.82	✓	✓	✓	✓	✓
			IS	61135	E432T8IS120-277/L/AS/BULK	75	98	0.77	0.82	✓	✓	✓	✓	✓
			PS	61063	E432T8PS120-277/N/AS/BULK	75	110	0.87	0.94	✓	✓	✓	✓	✓
		347	PS	61065	E432T8PS120-277/L/AS/BULK	75	93	0.71	0.79	✓	✓	✓	✓	✓
			IS	10294	E432T8IS347/N	75	108	0.87	0.32	✓	✓	✓	✓	✓
			IS	31552	E432T8IS347/N/BULK	75	108	0.87	0.32	✓	✓	✓	✓	✓
			IS	31036	E432T8IS347/L	75	92	0.77	0.27	✓	✓	✓	✓	✓
			IS	56603	E432T8IS347/L/BULK	75	92	0.77	0.27	✓	✓	✓	✓	✓
			IS	59771	E432T8IS347/H/90C	90	140	1.10	0.41	✓	✓	✓	✓	✓
			PS	61064	E432T8PS347/N/AS/BULK	75	110	0.88	0.32	✓	✓	✓	✓	✓
PS	61066	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	61121	E296T8IS120/N/AS	75	110	0.98	0.93	✓	✓	✓	✓	✓
		347	IS	16358	E296T8IS347/N	75	110	0.90	0.32	✓	✓	✓	✓	✓
	F96T8HO	120	PS	60013	E296T8PS120-277/N/HO/XTRM	90	185	1.00	1.61			✓	✓	✓
		347	PS	60014	E296T8PS347/N/HO/XTRM	90	184	1.03	0.53			✓	✓	✓



T12 Electronic Ballasts

Due to energy efficiency requirements, certain T12 magnetic ballasts are no longer available. Converting existing T12 systems to T12 electronic ballasts offers the simplest retrofit solution, with up to 30 % energy savings!

T12

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

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	F25T12	F72T12 F96T12 F96T12/ES	F84T12 F64T12 F60T12	F48T12 F48T12/ES
2	F40T12	347	PRS	10291	E240T12PRS347/N	75	70	0.86	0.20	✓				
		120	IS	10301	E296T12IS120/N	75	133	0.86	1.12			✓	✓	✓
	F96T12	120-277	IS	61430	E296T12IS120-277/N	75	133	0.86	1.12			✓	✓	✓
		347	IS	10302	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	10332	E260T12PRS120/N/HO	75	106	0.85	0.89		✓	✓	✓
	F96T12HO	120	RS	61119	E296T12RS120/N/HO/AS	75	195	0.89	1.65	✓	✓		
		347	PRS	59658	E296T12PRS347/N/HO	75	193	0.85	0.56	✓	✓		



Electronic Fluorescent Ballasts



T8

IS= Instant Start TS= Trigger Start RS=Rapid Start

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			
										F24T8/U	F25T8	F31T8/U	F32T8/U
2	F32T8	120	RS	10190	8G4126W18	BM225/32SRS120/TP/STD GLB	74	0.94	0.63	✓	✓	✓	✓

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	F48T12ES
1	F20T12	347	TS	10205	8G4769E	BM114/20STS347/TP/STD	34	0.93	0.10	✓	✓	
2	F20T12	120	TS	56547	8G3912	BM215/20STS120/TP/STD GLB	41	0.58	0.47	✓	✓	
		120	RS	10178	8G3867W	BM214/20STS120/TP/STD GLB	58	0.93	0.53	✓	✓	
	347	TS	10214	8G4767E	BM214STS347/TP/STD	59	0.93	0.18	✓	✓		
	F40T12	240	RS	56604	8G3917W	BM234SRS240/ES/TP/STD	92	0.85	0.40			
F48T12	120	IS	10197	8G1600WF	BM240PI120/TP/STD	87	0.93	0.77			✓	

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	10175	8G3900W	BM22496SRS120/HO GLB	89	0.81	1.03	✓	✓	✓
		347	RS	10286	8G4700E	BM1/224/96SRS347/HO/TP/STD	87	0.88	0.26	✓	✓	

T12VHO

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	
										F60T12VHO F72T12VHO	F48T12VHO F96T12VHOES
2	F96T12VHO	120	RS	31011	8G3672W	BM272/96SRS120/LT/VHO/TP/STD	452	0.95	3.8	✓	✓

Magnetic Fluorescent Ballasts



FLEXCONNECT™

The most **VERSATILE** electronic ballast kit available in the market! **Lamp, voltage, and mounting versatility**

Each kit packs the power of universal voltage, multi-lamp design, and the versatility of different mounting options. Each kit comes complete with the mounting conversion plate, pre-stripped wires, and a wire extraction tool.

Performance features

- ▶ Can be used with motion sensors
- ▶ Minimal starting temperature : -20 °C
- ▶ Auto-restart and instant "on"
- ▶ End of lamp life protection



Electronic CFL Ballasts

IS= Instant Start PS=Program Start

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	31276	E21338-120-277-TDE FLX	75	2 or 1	2	1	1	1
347	PS	31277	E21338-347-TDE-FLX	75	2 or 1	2	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	31278	E22142-120-277-TDE FLX	90	2 or 1	2	1	1	1
347	PS	31279	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 32W TTT 26W TTT	40W TTL 39W TTL 36W TTL	27W TTL	57W TTT 55W TTL 50W TTL	38W 2D
120-277	PS	31526	E22642-120-277-A-TDE FLX	90	2 or 1	2 or 1	2	1	1
347	PS	31527	E2642-347-A-TDE-FLX	90	2 or 1	2 or 1	2	1	1

CFL

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	10443	ED21326-120-277-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	10444	ED21326-120-277-BLS GLB	75	2 or 1	2 or 1	2	1	1
	PS	31003	E21326-120-277-SL GLB	90	2 or 1	2 or 1	2	1	1
347	PS	10490	ED21326-347-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	10447	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	10445	ED22150-120-277-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	10446	ED22150-120-277-BLS GLB	75	2 or 1	2 or 1	2	1	1
	PS	31005	E22150-120-277-SL GLB	90	2 or 1	2 or 1	2	1	1
347	PS	10448	ED22150-347-SL GLB	90	2 or 1	2 or 1	2	1	1
	PS	10449	ED22150-347-BLS GLB	75	2 or 1	2 or 1	2	1	1
	PS	31006	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	10469	E23640-120-SL GLB	90	2 or 1	2 or 1	2 or 1	2 or 1
347	PS	10470	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 TTT 13W TTT 10W 2D 16W 2D 21W 2D 28W 2D	10W TTT 7W TT 9W TT 11W TT 13W TT 18W TTT 26W TTT 18W TTL 24W TTL	5W TT 7W TT 9W TT 11W TT 13W TT F13T5 F14T5 F21T5 F28T5	F4T5 F6T5 F8T5 F13T5 F14T5 F21T5 F28T5	F13T8 F14T8 F15T8 F16T8 F17T8 F18T8 F25T8
120	IS	59591	E1528-120-SL GLB	70	1	1	1	1	1
347	IS	10457	E1528-347-SL GLB	70	1	1	1	1	1

Metal Halide Systems

Metal halide systems are characterized by a white light, a long life, and are suitable for both indoor and outdoor applications. Metal halide lamps will perform equally well and maintain light output in both cold and warm applications!

STANDARD Metal Halide ballasts are individually packaged, contain universal mounting brackets, and are prewired to the capacitor or ignitor when needed.

Pulse Start

Lamp watts (W)	ANSI code	Input volts (V)	Order code	Description	Type	Circuit type	Input power ANSI (W)	Max. input current (A)
39	M130	120	16603	BMH0035/39/120/C/HX/N	Core and coil	HX-HPF	54	0.35
50	M110	120 / 277 / 347	62929	BMH0050/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	70	0.60 / 0.25 / 0.20
		120 / 277 / 347	10067	BMH0050/TRITAP/F/HX/H/STD	F-Can	HX-HPF	67	0.50 / 0.23 / 0.20
		120 / 208 / 240 / 277	62940	BMH0050/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	67	0.50 / 0.30 / 0.25 / 0.20
70	M98	120	16604	BMH0070ACL/N	Core and coil	HX-NPF	94	3.00
		120 / 277 / 347	62930	BMH0070/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	93	0.80 / 0.40 / 0.30
		120 / 277 / 347	10068	BMH0070/TRITAP/F/HX/H/STD	F-Can	HX-HPF	94	0.66 / 0.30 / 0.23
		120 / 208 / 240 / 277	62941	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	62931	BMH0100/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	129	1.30 / 0.60 / 0.50
		120 / 277 / 347	10069	BMH0100/TRITAP/F/HX/H/STD	F-Can	HX-HPF	125	0.90 / 0.36 / 0.30
		120 / 208 / 240 / 277	62942	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	62932	BMH0150/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	188	1.85 / 0.85 / 0.70
		120 / 277 / 347	10070	BMH0150/TRITAP/F/HX/H/STD	F-Can	HX-HPF	185	1.50 / 0.70 / 0.55
		120 / 208 / 240 / 277	10116	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	59640	BMHP0175/TRITAP/C/CWA/H STD	Core and coil	CWA	208	1.10 / 0.50 / 0.40
200	M136	120 / 277 / 347	16624	BMHP0200/TRITAP/C/CWA/H	Core and coil	CWA	232	1.15 / 0.50 / 0.40
250	M153	120 / 277 / 347	59641	BMHP0250/TRITAP/C/CWA/H STD	Core and coil	CWA	288	1.65 / 0.75 / 0.60
320	M154	120 / 208 / 240 / 277	31366	BMHP0320/QUADTAP/C/CWA/H	Core and coil	CWA	368	3.25 / 1.85 / 1.65 / 1.40
		120 / 277 / 347	59642	BMHP0320/TRITAP/C/CWA/H STD	Core and coil	CWA	368	1.60 / 0.70 / 0.55
350	M131	120 / 277 / 347	16627	BMHP0350/TRITAP/C/CWA/H	Core and coil	CWA	400	1.80 / 0.78 / 0.40
400	M155	120 / 208 / 240 / 277	16628	BMHP0400/QUADTAP/C/CWA/H	Core and coil	CWA	452	2.31 / 1.00 / 1.15 / 1.00
		120 / 277 / 347	59639	BMHP0400/TRITAP/C/CWA/H STD	Core and coil	CWA	452	2.35 / 1.05 / 0.85
450	M144	120 / 277 / 347	16629	BMHP0450/TRITAP/C/CWA/H	Core and coil	CWA	508	2.90 / 1.27 / 1.00
575	M178	120 / 277 / 347	58971	BMHP0575/TRITAP/C/HX/H	Core and coil	HX-HPF	635	10.05 / 3.15 / 3.00
875	M166	120 / 208 / 240 / 277	57523	BMHP0875/QUADTAP/C/CWA/HX	Core and coil	CWA	950	6.60 / 3.80 / 3.30 / 2.85
		120 / 277 / 347	56523	BMHP0875/TRITAP/C/CWA/H	Core and coil	CWA	940	6.50 / 2.85 / 2.25
1000	M141	120 / 277 / 347	16732	BMHP1000/TRITAP/C/CWA/H	Core and coil	CWA	1 080	7.55 / 3.25 / 2.60

Magnetic HID Ballasts



Metal Halide

Lamp watts	ANSI code	Input volts	Order code	Description	Type	Circuit type	Input power ANSI (W)	Max. input current
(W)		(V)					(W)	(A)
175	M57	120 / 208 / 240	10059	BMH0175/120/208/240/C/CWI/H/K/	Core and coil	CWI	215	0.82 / 0.48 / 0.41
		120 / 277 / 347	62933	BMH0175/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	210	1.10 / 0.45 / 0.35
		120 / 277 / 347	10071	BMH0175/TRITAP/F/CWA/H/STD	F-Can	CWA	205	1.15 / 0.50 / 0.40
		120 / 277 / 347	31166	BMH0175/TRITAP/REM/CWA/H/STD	Remote	CWA	210	1.10 / 0.50 / 0.40
		120 / 208 / 240 / 277	62920	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	61690	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	10060	BMH0175/347/480/600/C/CWI/H/K/	Core and coil	CWI	215	0.30 / 0.22 / 0.17
		347 / 480 / 600	31200	BMH0175/347/480/600/REM/CWI/H	Remote	CWI	215	0.30 / 0.22 / 0.17
250	M58	120 / 208 / 240	10061	BMH0250/120/208/240/C/CWI/H/K/	Core and coil	CWI	292	0.90 / 0.52 / 0.45
		120 / 208 / 240	16611	BMH0250/120/208/240/REM/C/CWI/H	Remote	CWI	215	0.82 / 0.48 / 0.41
		120 / 277 / 347	62934	BMH0250/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	290	2.10 / 0.90 / 0.70
		120 / 277 / 347	10072	BMH0250/TRITAP/F/CWA/H/STD	F-Can	CWA	295	1.85 / 0.80 / 0.65
		120 / 277 / 347	31360	BMH0250/TRITAP/REM/CWA/H/STD	Remote	CWA	290	1.10 / 0.50 / 0.40
		120 / 208 / 240 / 277	10118	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	61691	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	10062	BMH0250/347/480/600/C/CWI/H/K/	Core and coil	CWI	292	0.30 / 0.22 / 0.17
347 / 480 / 600	16610	BMH0250/347/480/600/REM/CWI/H	Remote	CWI	292	0.30 / 0.22 / 0.17		
400	M59	120 / 208 / 240	10063	BMH0400/120/208/240/C/CWI/H/K/	Core and coil	CWI	462	0.98 / 0.70 / 0.49
		120 / 208 / 240	31361	BMH0400/120/208/240/REM/CWI/H	Remote	CWI	462	0.98 / 0.70 / 0.49
		120 / 277 / 347	10054	BMH0400/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	458	3.10 / 1.40 / 1.10
		120 / 277 / 347	10073	BMH0400/TRITAP/F/CWA/H/STD	F-Can	CWA	460	3.15 / 1.35 / 1.10
		120 / 277 / 347	31177	BMH0400/TRITAP/REM/CWA/H/STD	Remote	CWA	458	3.10 / 1.40 / 1.10
		120 / 208 / 240 / 277	10055	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	61692	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	10064	BMH0400/347/480/600/C/CWI/H/K/	Core and coil	CWI	462	0.33 / 0.23 / 0.19
347 / 480 / 600	31183	BMH0400/347/480/600/REM/CWI/H	Remote	CWI	462	0.33 / 0.23 / 0.19		
1000	M47	120 / 208 / 240	10065	BMH1000/120/208/240/C/CWI/H/K/	Core and coil	CWI	1 080	4.37 / 2.55 / 2.20
		120 / 208 / 240	31191	BMH1000/120/208/240/REM/CWI/H	Remote	CWI	80	4.37 / 2.55 / 2.20
		120 / 277 / 347	62935	BMH1000/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	1 100	5.10 / 2.15 / 1.70
		120 / 277 / 347	31184	BMH1000/TRITAP/REM/CWA/H/STD	Remote	CWA	80	5.90 / 3.25 / 2.60
		120 / 208 / 240 / 277	10057	BMH1000/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	1 080	7.30 / 4.30 / 3.70 / 3.20
		120 / 208 / 240 / 277 / 480	61693	BMH1000/5TAP/C/CWA/H/K/STD	Core and coil	CWA	1 080	9.20 / 5.30 / 4.60 / 4.00 / 2.30
		347 / 480 / 600	10066	BMH1000/347/480/600/C/CWI/H/K/	Core and coil	CWI	1 100	1.52 / 1.10 / 0.90
		347 / 480 / 600	31190	BMH1000/347/480/600/REM/CWI/H	Remote	CWI	100	1.52 / 1.10 / 0.90
1500	M48	120 / 277 / 347	10058	BMH1500/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	1 605	10.70 / 4.70 / 3.65
		120 / 208 / 240 / 277	16607	BMH1500/QUADTAP/C/CWA/H	Core and coil	CWA	1 605	12.10 / 7.05 / 6.05 / 5.30



High Pressure Sodium Systems

High Pressure Sodium lamps and ballasts are often used in applications such as roadway, parking areas, street lighting, etc. These systems are characterized by a yellow light, long life, and are suitable for both indoor and outdoor applications. HID lamps will perform equally well and maintain light output in both cold and warm applications!

STANDARD high pressure sodium ballasts are individually packaged, contain universal mounting brackets, and are prewired to the capacitor or ignitor when needed.



Magnetic HID Ballasts

High Pressure Sodium

Lamp watts	ANSI code	Input volts	Order code	Description	Type	Circuit type	Input power ANSI (W)	Max. input current
(W)		(V)					(W)	(A)
35	S76	120	10019	BHPS0035/120/C/R/K/STD	Core and coil	R-HPF	45	0.50
		120	59284	BHPS0035/120/C/R/INT IGN/STD	Core and coil	R-HPF	45	1.02
		347	16547	BHPS0035/347/C/HX/H	Core and coil	HX-HPF	54	0.25
50	S68	120	10020	BHPS0050/120/C/R/K/STD	Core and coil	R-HPF	60	0.62
		120	59285	BHPS0050/120/C/R/INT IGN/STD	Core and coil	R-HPF	62	1.15
		120 / 277	16550	BHPS0050/120/277/C/HX/H	Core and coil	HX-HPF	66	0.45 / 0.25
		347	16549	BHPS0050/347/C/HX/H	Core and coil	HX-HPF	75	0.55
70	S62	120	10021	BHPS0070/120/C/R/K/STD	Core and coil	R-HPF	81	0.78
		120	59286	BHPS0070/120/C/R/INT IGN/STD	Core and coil	R-HPF	84	1.36
		120 / 277 / 347	62922	BHPS0070/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	91	0.95 / 0.45 / 0.35
		120 / 208 / 240 / 347	10037	BHPS0070/QUADTAP/C/CWI/H/K/STD	Core and coil	CWI	95	0.42 / 0.24 / 0.20 / 0.14
		120 / 208 / 240 / 277	62936	BHPS0070/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	93	0.85 / 0.50 / 0.45 / 0.35
100	S54	120	10022	BHPS0100/120/C/R/K/STD	Core and coil	R-HPF	120	1.19
		120	59287	BHPS0100/120/C/R/INT IGN/STD	Core and coil	R-HPF	115	2.50
		120 / 277 / 347	62923	BHPS0100/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	127	1.00 / 0.45 / 0.35
		120 / 208 / 240 / 347	10038	BHPS0100/QUADTAP/C/CWI/H/K/STD	Core and coil	CWI	130	0.55 / 0.30 / 0.26 / 0.18
		120 / 208 / 240 / 277	62937	BHPS0100/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	122	1.20 / 0.70 / 0.60 / 0.52
150	S55	120	62921	BHPS0150/120/C/R/K/STD	Core and coil	R-HPF	170	2.75
		120	59283	BHPS0150/120/C/R/INT IGN/STD	Core and coil	R-HPF	170	3.97
		120	16710	BHPS0150/120/C/R/PCE	Post-line	R-NPF	178	7.00
		120 / 277 / 347	62924	BHPS0150/TRITAP/C/HX/H/K/STD	Core and coil	HX-HPF	188	1.50 / 0.70 / 0.60
		120 / 208 / 240 / 347	10039	BHPS0150/QUADTAP/C/CWI/H/K/STD	Core and coil	CWI	190	0.65 / 0.38 / 0.32 / 0.23
		120 / 208 / 240 / 277	62938	BHPS0150/QUADTAP/C/HX/H/K/STD	Core and coil	HX-HPF	189	1.55 / 1.00 / 0.80 / 0.70
		600	16586	BHPS0150/600/C/CWI/H	Core and coil	CWI	190	0.29 / 0.21 / 0.17
250	S50	120 / 208 / 240	10040	BHPS0250/120/208/240/C/CWI/H/K	Core and coil	CWI	290	0.87 / 0.51 / 0.44
		120 / 208 / 240	16630	BHPS0250/120/208/240/REM/CWI/H	Remote	CWI	290	0.87 / 0.51 / 0.44
		120 / 277 / 347	62925	BHPS0250/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	290	2.10 / 0.90 / 0.75
		120 / 277 / 347	31367	BHPS0250/TRITAP/REM/CWA/H/STD	Remote	CWA	295	1.86 / 0.81 / 0.64
		120 / 208 / 240 / 277	10111	BHPS0250/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	295	1.75 / 1.00 / 0.90 / 0.80
		120 / 208 / 240 / 277 / 480	61694	BHPS0250/5TAP/C/CWA/H/K/STD	Core and coil	CWA	295	2.50 / 1.50 / 1.30 / 1.10 / 0.65
		347 / 480 / 600	10041	BHPS0250/347/480/600/C/CWI/H/K	Core and coil	CWI	290	0.31 / 0.23 / 0.17
310	S67	120 / 208 / 240 / 277	16533	BHPS0310/QUADTAP/C/CWA/H	Core and coil	CWA	355	1.95 / 1.10 / 1.00 / 0.85
400	S51	120 / 240	16902	BHPS0400/120/240/C/CWI/H	Core and coil	CWI	470	1.60 / 0.80
		120 / 208 / 240	10042	BHPS0400/120/208/240/C/CWI/H/K	Core and coil	CWI	465	0.88 / 0.50 / 0.44
		120 / 208 / 240	16631	BHPS0400/120/208/240/REM/CWI/H	Remote	CWI	465	0.88 / 0.50 / 0.44
		120 / 277 / 347	62926	BHPS0400/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	465	4.00 / 1.80 / 1.40
		120 / 277 / 347	31369	BHPS0400/TRITAP/REM/CWA/H/STD	Remote	CWA	464	3.20 / 1.40 / 1.15
		120 / 208 / 240 / 277	62939	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	61695	BHPS0400/5TAP/C/CWA/H/K/STD	Core and coil	CWA	464	3.80 / 2.20 / 1.90 / 1.70 / 1.00
		347 / 480 / 600	10043	BHPS0400/347/480/600/C/CWI/H/K	Core and coil	CWI	465	0.54 / 0.40 / 0.32
		347 / 480 / 600	31368	BHPS0400/347/480/600/REM/CWI/H	Remote	CWI	465	0.54 / 0.40 / 0.32
430	S145	120 / 208 / 240 / 277	10034	BHPS0430/QUADTAP/C/CWA/H/K/STD	Core and coil	CWA	492	4.00 / 2.30 / 2.00 / 1.73
750	S111	277 / 347 / 480	16584	BHPS0750/277/347/480/C/CWA/H	Core and coil	CWA	800	5.50 / 2.40 / 1.90
1000	S52	120 / 208 / 240	10046	BHPS1000/120/208/240/C/CWI/H/K	Core and coil	CWI	1 100	4.22 / 2.44 / 2.07
		120 / 277 / 347	62927	BHPS1000/TRITAP/C/CWA/H/K/STD	Core and coil	CWA	1 120	12.5 / 5.50 / 4.50
		120 / 208 / 240 / 277	62928	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	61696	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	10047	BHPS1000/347/480/600/C/CWI/H/K	Core and coil	CWI	1 100	1.50 / 1.13 / 0.90

Never change a ballast without the lamp!



All the components to service an HID fixture are conveniently packed into one handy box, ensuring the job gets done all at once:

- ▶ Lamp
- ▶ Mounting brackets
- ▶ Prewired ballast
- ▶ Hardware
- ▶ Capacitor (if required)
- ▶ Ignitor (if required)
- ▶ One System Warranty

Lamp type	Lamp watts (W)	ANSI code	Input volts (V)	Order code	Description	Circuit type	Lamp shape	Lamp base	Lamp finish	Luminaire
MH	70	M98	120/277/347	61839	LBK/BMH0070/TRITAP/C/HX/MED	HX-HPF	EDX17	E26	Clear	Open
	100	M90	120/277/347	61840	LBK/BMH0100/TRITAP/C/HX/MED	HX-HPF	EDX17	E26	Clear	Open
	150	M102	120/277/347	61841	LBK/BMH0150/TRITAP/C/HX/MED	HX-HPF	EDX17	E26	Clear	Open
	175	M57	120/277/347	60986	LBK/BMH0175/TRITAP/C/CWA/MED	CWA	ED17	E26	Clear	Enclosed
			120/277/347	60985	LBK/BMH0175/TRITAP/C/CWA/MOG	CWA	ED28	E39	Clear	Enclosed
	250	M58	120/277/347	60987	LBK/BMH0250/TRITAP/C/CWA/MOG	CWA	ED28	E39	Clear	Enclosed
	320	M154	120/277/347	61007	LBK/BMHP0320/TRITAP/C/CWA/MOG	CWA	ED37	E39	Clear	Enclosed
	400	M59	120/277/347	60988	LBK/BMH0400/TRITAP/C/CWA/MOG	CWA	ED37	E39	Clear	Enclosed
M155		120/277/347	61008	LBK/BMHP0400/TRITAP/C/CWA/MOG	CWA	ED37	E39	Clear	Enclosed	
HPS	50	S68	120	60994	LBK/BHPS0050/120/C/R/MED	R-HPF	ED17	E26	Clear	Open
	70	S62	120	60995	LBK/BHPS0070/120/C/R/MED	R-HPF	ED17	E26	Clear	Open
			120/277/347	61010	LBK/BHPS0070/TRITAP/C/HX/MED	HX-HPF	ED17	E26	Clear	Open
	100	S54	120/277/347	61011	LBK/BHPS0070/TRITAP/C/HX/MOG	HX-HPF	ED23.5	E39	Clear	Open
			120	60996	LBK/BHPS0100/120/C/R/MED	R-HPF	ED17	E26	Clear	Open
	150	S55	120/277/347	61012	LBK/BHPS0100/TRITAP/C/HX/MED	HX-HPF	ED17	E26	Clear	Open
			120/277/347	61013	LBK/BHPS0100/TRITAP/C/HX/MOG	HX-HPF	ED23.5	E39	Clear	Open
	250	S50	120	61009	LBK/BHPS0150/120/C/R/MED	R-HPF	ED17	E26	Clear	Open
			120/277/347	61002	LBK/BHPS0150/TRITAP/C/HX/MED	HX-HPF	ED17	E26	Clear	Open
	400	S51	120/277/347	61003	LBK/BHPS0150/TRITAP/C/HX/MOG	HX-HPF	ED23.5	E39	Clear	Open
120/277/347			61004	LBK/BHPS0250/TRITAP/C/CWA/MOG	CWA	ET18	E39	Clear	Open	
HPS Ignitron	70	S62	120/277/347	61673	LBK/BHPS0070/TRITAP/C/HX/I/MOG	HX-HPF	ED23.5	E39	Clear	Open
	100	S54	120/277/347	61674	LBK/BHPS0100/TRITAP/C/HX/I/MOG	HX-HPF	ED23.5	E39	Clear	Open
	150	S55	120/277/347	61675	LBK/BHPS0150/TRITAP/C/HX/I/MOG	HX-HPF	ED23.5	E39	Clear	Open
	250	S50	120/277/347	61676	LBK/BHPS0250/TRITAP/C/CWA/I/MOG	CWA	ET18	E39	Clear	Open

Lamp & Ballast Kits

The Challenge

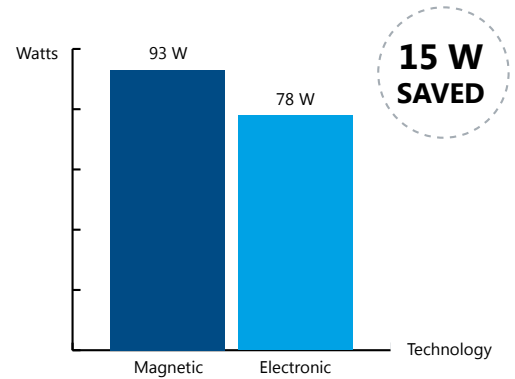
Need a more sustainable solution to HID lighting. Conventional magnetic ballasts experience on average 60 % depreciation in light output over the life of the lamp.

The Solution

Convert your traditional HID system (magnetic ballast with probe-start lamp) to an eHID system and improve your lumen maintenance and gain 15 % in energy savings. You will also increase efficiency, lower energy consumption, and lengthen lamp life when comparing to equivalent magnetic ballasts.

The Benefits

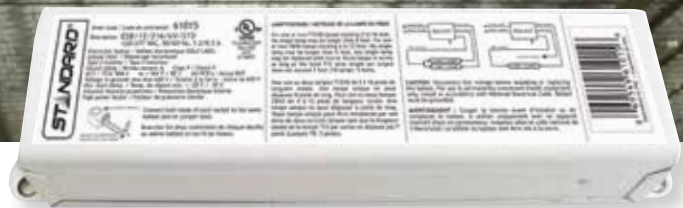
- ▶ Ideal for use with ceramic metal halide lamps
- ▶ Increased colour rendering – ideal for retail applications
- ▶ Energy savings of 15 %
- ▶ Higher lumen maintenance
- ▶ Universal voltage – convenient installation and simplified stocking



No. of lamps	Lamp watts (W)	ANSI code	Input volts (V)	Order code	Description	Input power	Regulation	Power factor	THD	Max. distance to lamp (ft.)	Max. input current (A)
1	39	M130	120 -277	61509	EMH0039/120-277/BLS/STD	44	± 5%	> 0.95	< 15%	5	0.37 / 0.17
1	70	M98 / M143/ M139	120 -277	61510	EMH0070/120-277/BLS/STD	78	± 5%	> 0.95	< 15%	5	0.67 / 0.29
1	100	M90 / M140	120 -277	63543	EMH00100/120-277/LFS-VK/STD	111	± 5%	> 0.95	< 15%	5	0.94 / 0.42



Electronic HID Ballasts



- ▶ Run T12HO or T8HO lamps
- ▶ Lighter weight than magnetic ballasts
- ▶ Consume 25 to 40 % less energy than magnetic sign ballasts
- ▶ Easy to install

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

* Based off T12HO lamps at 120V



Electronic Sign Ballasts



- ▶ Lightweight, compact, and dimmable
- ▶ For 12 volt halogen lamps
- ▶ 70 % more efficient than conventional magnetic transformers
- ▶ Low installation and running costs
- ▶ Built in protection against short circuit and overload
- ▶ Integrated automatic restart feature

Order code	Description	Input volts	Output volts	Input watts	Input current	Power factor	Auto reset	Dimmable	Class 2	Min. starting temp.	Max. starting temp.	Dimensions
		(V)	(V)	(W)	(A)					(°C)	(°C)	L x W x H (mm)
61949	T120V/60W/AR/STD	120	11.8	60	0.51	0.98	Yes	Yes	Yes	-18	75	58 x 33 x 20
61950	T120V/75W/AR/MC/STD	120	11.0	74	0.64	0.96	Yes	Yes	-	-18	75	58 x 33 x 20
58878	T120V/75W/AR/90C/MS90117	120	12.0	75	0.59	0.98	Yes	Yes	-	0	90	54 x 33 x 24
61951	T120V/150W/AR/STD	120	11.4	150	1.27	0.99	Yes	Yes	-	-18	75	104 x 35 x 28

Note: 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.



Electronic Transformers

Ballast Quick Finder

STANDARD[™]

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