



BALLASTS

Applications

- Office
- Education
- Retail
- Industrial
- Parking



CORE SELECTOR GUIDE

Core Products

A complete range of solutions for nearly every application



CORE SELECTOR GUIDE

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No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Line Current (Amps)	Input Power (Watts)	Ballast Factor	Also Operates				
									F32T8ES	F28T8	F25T8	F17T8	F40T8
F32T8 & F32T8/U													
1	F32T8 & F32T8/U	120 - 277	B132IUNVHP-N	HP Electronic	IS	0.25 - 0.11	30	0.88	X	X	X	X	X
			B132PUNVHE-B	ULTim8	PRS	0.24 - 0.11	29	0.86	X	X	X	X	
2	F32T8 & F32T8/U	120 - 277	B232IUNVHP-N	HP Electronic	IS	0.46 - 0.19	55 - 53	0.88	X	X	X	X	X
			B232IUNVHE-A	ULTim8	IS	0.47 - 0.20	55	0.86	X	X	X	X	X
		347	B232PUNVHE-B	ULTim8	PRS	0.46 - 0.20	55 - 54	0.88	X	X	X	X	X
			B232I347HE-A	ULTim8	IS	0.17	58	0.88	X	X		X	X
3	F32T8 & F32T8/U	120 - 277	B332IUNVHP-A	HP Electronic	IS	0.71 - 0.31	84 - 83	0.88	X	X	X	X	X
			B332IUNVHE-A	ULTim8	IS	0.70 - 0.30	83 - 81	0.87	X	X	X	X	X
			B332PUNVHE-A	ULTim8	PRS	0.70 - 0.30	84 - 82	0.88	X	X	X	X	X
4		120 - 277	B432IUNVHP-A	HP Electronic	IS	0.93 - 0.40	112 - 108	0.88	X	X	X	X	X
			B432IUNVHE-A	ULTim8	IS	0.91 - 0.38	109 - 106	0.87	X	X	X	X	X
		347	B432PUNVHE-A	ULTim8	PRS	0.91 - 0.39	109 - 107	0.87	X	X	X	X	X
			B432I347HE-A	ULTim8	IS	0.32	113	0.88	X	X	X	X	X

No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Line Current (Amps)	Input Power (Watts)	Ballast Factor	Also Operates		
									F96T8ES	F72T8	F48T8
Long T8											
1	F96T8	120 - 277	B259IUNVHP-A	HP Electronic	IS	0.60 - 0.26	72 - 71	1.08			
			B259IUNVHE-A	ULTim8	IS	0.60 - 0.26	71 - 70	1.08	X		
2	F96T8	120 - 277	B259IUNVHP-A	HP Electronic	IS	0.95 - 0.40	113 - 110	0.88			
			B259IUNVHE-A	ULTim8	IS	0.93 - 0.39	111 - 108	0.88	X		

ULTim8 Instant Start are some of the most efficient ballasts in the industry for maximum energy savings.

- Available in high efficiency HE normal (.88), EL low (.77), and HEH high (1.18) ballast factor versions.
- “True” parallel lamp operation: independent lamp operation simplifies troubleshooting, if one lamp fails, the others stay lit.
- Backed by 5 year warranty when operated at 75°C maximum case temperature

ULTim8 Programmed Start ballasts enjoy the same benefits as Instant Start plus:

- Available in high efficiency HE normal (.88), EL low (.71), and HEH high (1.18) ballast factor versions.
- Programmed Start models feature “soft start” technology to provide long lamp life in high cycle applications such as motion sensors.
- Same 5 year warranty as instant or 3 year warranty for HEH models when operated at 90C case temperature.

T12



No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Standard Lamps			Energy Saving Lamps		
						Line Current (Amps)	Input Power (Watts)	Ballast Factor	Line Current (Amps)	Input Power (Watts)	Ballast Factor
F40T12 & F40T12/U											
2	F40T12 & F40T12/U	120	B234SR120M-A	Basic-12	RS	0.63	71	0.9	0.49	59	0.86

T12: HO & VHO

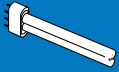


No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Line Current (Amps)	Input Power (Watts)	Ballast Factor	Also Operates		
									F72T12HO	F60T12HO	F48T12HO
Long T8											
1	F96T12HO	227	B295PUNVHE-S	Basic-12	PS	0.88 - 0.38	104 - 103	0.92	X	X	X
	F96T12HOES-95W	227	B295PUNVHE-S	Basic-12	PS	0.73 - 0.32	87	0.92	X	X	X
2	F96T12HO	227	B295PUNVHE-S	Basic-12	PS	1.72 - .72	204 - 197	0.88	X	X	X
	F96T12HOES-95W	227	B295PUNVHE-S	Basic-12	PS	1.45 - 0.61	170 - 167	0.88	X	X	X

T12: SLIMLINE



No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Standard Lamps			Energy Saving Lamps		
						Line Current (Amps)	Input Power (Watts)	Ballast Factor	Line Current (Amps)	Input Power (Watts)	Ballast Factor
1	F48T12	120 - 277	B260IUNVHP	Basic-12	IS	.39 - .18	47	1.1	.32 - .15	38 - 39	1.1
2						.61 - .27	75 - 74	0.95	.57 - .25	67 - 66	0.93
1	F60T12	120 - 277	B260IUNVHP	Basic-12	IS	0.49 - 0.22	58	1.1	-	-	-
2						0.77 - 0.33	92 - 91	0.92	-	-	-
1	F72T12	120 - 277	B260IUNVHP	Basic-12	IS	0.55 - 0.25	68 - 67	1.06	-	-	-
2						0.09 - 0.39	109 - 107	0.91	-	-	-
1	F96T12	120 - 277	B260IUNVHP	Basic-12	IS	0.70 - 0.31	85 - 84	1.05	0.59 - 0.26	72 - 70	1.03
2		120	B260I120M-A			For use only with Energy Saving Lamps		0.93	107	0.88	
		120 - 277	B260IUNVHP			1.16 - 0.50	139 - 137	0.88	0.96 - 0.40	112 - 110	0.88



LONG TWIN T5

No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Line Current (Amps)	Input Power (Watts)	Ballast Factor	Also Operates		
									F54T5H0	F24T5H0	F39T5H0
1	FT24W/2G11	120 - 277	C2642UNVME	CF Electronic	PRS	0.22 - 0.10	26	1.01			
			B224PUNV-C	Accustart T5	PRS	0.23 - 0.10	27	1.02		X	X
		347	C2642/347ME	CF Electronic	PRS	0.09	29	0.90			
2	FT24W/2G11	120 - 277	C2642UNVME	CF Electronic	PRS	0.40 - 0.18	47 - 49	0.98			
			C242UNVME	CF Electronic	PRS	0.43 - 0.19	51 - 50	1.02			
		347	B224PUNV-C	Accustart T5	PRS	0.43 - 0.18	52 - 51	1.00		X	
1	FT36W/2G11	120 - 277	C242UNVME	CF Electronic	PRS	0.29 - 0.14	34 - 33	0.88			
			B224PUNV-C	Accustart T5	PRS	0.30 - 0.13	36	0.90		X	X
		347	B254PUNV-D	Accustart T5	PRS	0.37 - 0.18	45	1.22	X		
2	FT36W/2G11	120 - 277	C242UNVME	CF Electronic	PRS	0.57 - 0.25	64	0.83			
			B239PUNV-D	Accustart T5	PRS	0.59 - 0.26	71 - 70	0.94		X	X
		347	B254PUNV-D	Accustart T5	PRS	0.73 - 0.30	87	1.20	X		
1	FT40W/2G11	120	C240SI120RH	Std Electronic	IS	0.40	40	1.02			
		277	C240SI277RH	Std Electronic	IS	0.17	40	1.02			
		120 - 277	C242UNVME	CF Electronic	PRS	0.40 - 0.18	47	1.08			
2	FT40W/2G11	120 - 277	C240PUNVHP-B	HP Electronic	PRS	0.34 - 0.15	41 - 40	1.00			
			120	C240SI120RH	Std Electronic	IS	0.61	67	0.88		
		277	C240SI277RH	Std Electronic	IS	0.27	67	0.88			
1	FT50W/2G11	120 - 277	C242UNVME	CF Electronic	PRS	0.78 - 0.34	93 - 87	1.00			
			C240PUNVHP-B	HP Electronic	PRS	0.63 - 0.27	76 - 73	0.90			
		347	B254PUNV-D	Accustart T5	PRS	0.47 - 0.21	57	1.00	X		
2	FT50W/2G11	120 - 277	B254PUNV-D	Accustart T5	PRS	0.93 - 0.40	111 - 108	1.00	X		
3	FT50W/2G11	120 - 277	B454PUNV-E	Accustart T5	PRS	1.49 - 0.64	179 - 177	1.13	X		
4	FT50W/2G11	120 - 277	B454PUNV-E	Accustart T5	PRS	1.98 - 0.84	240 - 235	1.10	X		
			B454PUNVHB-E	Accustart T5	PRS	1.98 - 0.84	240 - 235	1.10	X		
1	FT55W/2G11	120 - 277	C242UNVME	CF Electronic	PRS	0.38 - 0.17	46	0.83			
			B254PUNV-D	Accustart T5	PRS	0.47 - 0.21	56	1.00	X		
		347	C242/347ME	CF Electronic	PRS	0.13	43	0.83			
2	FT55W/2G11	120 - 277	B254PUNV-D	Accustart T5	PRS	0.93 - 0.39	112 - 109	1.00	X		
3	FT55W/2G11	120 - 277	B454PUNV-E	Accustart T5	PRS	1.45 - 0.62	174 - 171	0.93	X		
4	FT55W/2G11	120 - 277	B454PUNV-E	Accustart T5	PRS	1.91 - 0.80	229 - 223	0.90	X		
			B454PUNVHB-E	Accustart T5	PRS	1.91 - 0.80	229 - 223	0.90	X		

T5: STD & HO



No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Primary Lamp			Also Operates	
						Line Current (Amps)	Input Power (Watts)	Ballast Factor	F14T5	F21T5
2	F28T5	120 - 277	B228PUNV-C	Accustart T5	PRS	0.55 - 0.23	63 - 61	1.00	X	X
			B228PUNV-N	Accustart T5	PRS	0.55 - 0.23	66 - 64	1.00	X	X

No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Primary Lamp			Also Operates	
						Line Current (Amps)	Input Power (Watts)	Ballast Factor	F39T5HO	FT36W/2G11
1	F24T5HO	120 - 277	B224PUNV-C	Accustart T5	PRS	0.19 - 0.10	28	1.02	X	X
2	F24T5HO	120 - 277	B224PUNV-C	Accustart T5	PRS	0.45 - 0.23	53 - 52	1.00	X	X

No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Primary Lamp			Also Operates	
						Line Current (Amps)	Input Power (Watts)	Ballast Factor	FT50W/2G11	FT55W/2G11
1	F39T5HO	120 - 277	B239PUNV-D	Accustart T5	PRS	0.32 - 0.18	47	1.02	X	X
2	F39T5HO	120 - 277	B239PUNV-D	Accustart T5	PRS	0.75 - 0.39	89 - 88	1.00	X	X

No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Primary Lamp			Also Operates	
						Line Current (Amps)	Input Power (Watts)	Ballast Factor	F14T5	F21T5
1	F54T5HO	120 - 277	B254PUNV-D	Accustart T5	PRS	0.54 - 0.24	64	1.02	X	X
2	F54T5HO	120 - 277	B254PUNV-D	Accustart T5	PRS	1.03 - 0.43	120 - 117	1.00	X	X
			B254PUNVHB-D	Accustart T5	PRS	0.96 - 0.41	116 - 113	1.00	X	X
3	F54T5HO	120 - 277	B454PUNV-E	Accustart T5	PRS	1.52 - 0.66	181 - 178	1.05	X	X
4	F54T5HO	120 - 277	B454PUNV-E	Accustart T5	PRS	2.01 - 0.86	240 - 234	1.00	X	X
			B454PUNVHB-E	Accustart T5	PRS	1.96 - 0.84	235 - 229	1.00	X	X

CIRCLINE



No. of Lamps	Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	Primary Lamp			Also Operates	
						Line Current (Amps)	Input Power (Watts)	Ballast Factor	CFS28W/GR10q	CFS38W/GR10q
1	FC9T5-22W	120 - 277	C2642UNVME	CF Electronic	PRS	0.21 - 0.10	25	1.00	X	X
		347	C2642/347ME	CF Electronic	PRS	0.08	26	0.98	X	
2	FC9T5-22W	120 - 277	C242UNVME	CF Electronic	PRS	0.42 - 0.19	50	1.05	X	
		347	C242/347ME	CF Electronic	PRS	0.14	47	1.05	X	
1	FC12T5-40W	120 - 277	C2642UNVME	CF Electronic	PRS	0.35 - 0.16	42	0.98	X	X
		347	C2642/347ME	CF Electronic	PRS	0.12	40	0.98	X	
2	FC12T5-40W	120 - 277	C242UNVME	CF Electronic	PRS	0.65 - 0.29	80 - 79	0.98	X	
		347	C242/347ME	CF Electronic	PRS	0.22	71	0.98	X	
1 & 1	FC9T5-22W & FC12T5-40W	120 - 277	C242UNVME	CF Electronic	PRS	0.54 - 0.24	66 - 64	0.98	X	
		347	C242/347ME	CF Electronic	PRS	0.18	59	0.98	X	
1	FC12T5-55W	120 - 277	B254PUNV-D	Accustart T5	PRS	0.45 - 0.20	55	1.00		
2	FC12T5-55W	120 - 277	B254PUNV-D	Accustart T5	PRS	0.88 - 0.38	107 - 104	1.00		



COMPACT

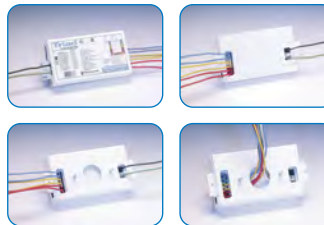
Lamp	Input Volts	Catalog Nbr	Ballast Family	Start Type	One Lamp			Two Lamp		
					Line Current (Amps)	Input Power (Watts)	Ballast Factor	Line Current (Amps)	Input Power (Watts)	Ballast Factor
13W/G24q or 13W/GX24q	120 - 277	C213UNVME	CF Electronic	PRS	0.15 - 0.07	18	1.00	0.26 - 0.11	30	1.00
18W/G24q or 18W/GX24q	120 - 277	C218UNVME	CF Electronic	PRS	0.16 - 0.07	19	1.00	0.30 - 0.13	35	0.95
	347	C218/347ME	CF Electronic	PRS	0.06	21	1.00	0.11	38	0.98
26W/G24q or 26W/GX24q	120 - 277	C2642UNVME	CF Electronic	PRS	0.25 - 0.11	28	1.02	0.47 - 0.21	56	0.98
		C242UNVME	CF Electronic	PRS	-	-	-	0.46 - 0.20	56 - 55	1.02
	347	C2642/347ME	CF Electronic	PRS	0.09	31	1.02	0.17	57	0.98
		C242/347ME	CF Electronic	PRS	-	-	-	0.14	44	1.02
32W/GX24q	120 - 277	C2642UNVME	CF Electronic	PRS	0.30 - 0.13	36	1.00	-	-	-
		C242UNVME	CF Electronic	PRS	-	-	-	0.58 - 0.26	69 - 67	1.00
	347	C2642/347ME	CF Electronic	PRS	0.11	36	0.98	-	-	-
		C242/347ME	CF Electronic	PRS	-	-	-	0.19	62	1.00
42W/GX24q	120 - 277	C2642UNVME	CF Electronic	PRS	0.41 - 0.18	48	0.98	-	-	-
		C242UNVME	CF Electronic	PRS	0.40 - 0.18	45	1.00	0.76 - 0.32	91 - 90	0.98
	347	C2642/347ME	CF Electronic	PRS	0.15	50	1.00	-	-	-
		C242/347ME	CF Electronic	PRS	0.13	42	1.00	0.25	80	0.98
57W/GX24q	120 - 277	C242UNVME	CF Electronic	PRS	0.52 - 0.21	58 - 57	1.00	-	-	-
	347	C242/347ME	CF Electronic	PRS	0.18	61	1.00	-	-	-
70W/GX24q	120 - 277	C242UNVME	CF Electronic	PRS	0.61 - 0.27	73 - 72	1.00	-	-	-
	347	C242/347ME	CF Electronic	PRS	0.21	74	1.00	-	-	-

ME - Side and Bottom Exit Terminals

Fits Virtually Every J-box Cover & Fixture Application



The Multi-Exit ballast lead wire connectors accommodate side and bottom lead exit requirements, and the Snap mount adapter plate adds bottom-exit studs and additional flexibility for replacement of older magnetic ballasts.



Multi-E Kits Contain

- Multi-Exit Ballast
- Snap-mount adapter plate
- Lead wire set
- Wire extraction tool
- Instructions

Multi-E Kit Products:

- C213UNVME000K
- C218UNVME000K
- C2642UNVME000K

HIGH PRESSURE SODIUM LAMP BALLASTS

Lamp Type	Lamp Watts	ANSI Code	Input Volts	Catalog Nbr	Circuit Type	Input Power (Watts)	Max. Input Current
High Pressure Sodium	70 W	S62	120/208/240/277	S70MLTLC3M	HX-HPF	94	1.40/0.83/0.72/0.62
	100 W	S54	120/208/240/277	S100MLTLC3M	HX-HPF	122	2.20/1.30/1.10/0.95
	150 W	S55	480 (120V Aux)	S15048TLC3M	HX-HPF	189	0.72
			120/208/240/277	S150MLTLC30	HX-HPF	188	3.00/1.65/1.50/1.30
	250 W	S50	120/208/240/277/480	S250ML5AC40	CWA	300	2.50/1.55/1.25/1.05/0.65
			120/208/240/277	S250MLTAC4M	CWA	300	2.60/1.55/1.30/1.15
	400 W	S51	480 (120V Aux)	S40048TAC4M	CWA	465	1.1
			120/208/240/277/480	S400ML5AC4M	CWA	465	4.00/2.30/2.00/1.70/1.10
				S400ML5AC5M	CWA	468	4.40/2.62/2.21/1.90/1.05
	1000 W	S52	120/208/240/277	S400MLTAC4M	CWA	440	3.80/2.20/1.80/1.60
			480 (12 0V Aux)	S100048TAC5M	CWA	1100	2.45
			120/208/240/277/480	S1000ML5AC5M	CWA	1100	9.45/5.45/4.75/4.10/2.35
			120/208/240/277	S1000MLTAC5M	CWA	1100	9.50/5.50/4.80/4.20
				120/277/347	S1000TRIAC5M	CWA	1100

PROBE-START METAL HALIDE LAMP BALLASTS

Lamp Type	Lamp Watts	ANSI Code	Input Volts	Catalog Nbr	Circuit Type	Input Power (Watts)	Max. Input Current	
Metal Halide (Probe-Start)	175 W	M57 or M107	120/208/240/277/480	M175ML5AC3M	CWA	208/210	1.90/1.10/0.95/0.85/0.50	
			120/208/240/277	M175MLTAC3M	CWA	205	1.82/1.13/0.93/0.85	
	250 W	M58	120/277	1110-246C-TC	CWA, F-Can	295	2.50/1.10	
			120/208/240/277/480	M250ML5AC3M	CWA	280	2.50/1.50/1.25/1.10/0.65	
			120/208/240/277/480	M250ML5AC4M	CWA	282	2.42/1.40/1.20/1.00/0.60	
			120/208/240/277	M250MLTAC3M	CWA	297	2.65/1.58/1.30/1.13	
			120/208/240/278	M250MLTAC4M	CWA	290	3.05/1.65/1.55/1.25	
	400 W	M59	120/208/240/277/480	M400ML5AC4M	CWA	458	4.00/2.30/2.00/1.70/1.00	
			120/208/240/277	M400MLTAC4M	CWA	458	3.94/2.20/1.93/1.69	
	1000 W	M47	480 (120V Aux)	M100048TAC5M	CWA	1080	2.30	
			120/208/240/277/480	M1000ML5AC5M	CWA	1080	9.15/5.25/4.55/3.95/2.30	
				120/208/240/277	M1000MLTAC5M	CWA	1080	8.95/5.15/4.50/3.90
	1050 W	-		120	M1050120AC5M	CWA	1130	9.40
	1500 W	M48	480 (120V Aux)	M150048TAC5M	CWA	1620	3.50	
			120/208/240/277	M1500MLTAC5M	CWA	1615	14.30/8.30/7.20/6.20	
			208/240/277/480	M1500MLHAC5M	CWA	1625	7.90/7.00/6.00/3.50	

PULSE-START METAL HALIDE LAMP BALLASTS

Lamp Type	Lamp Watts	ANSI Code	Input Volts	Catalog Nbr	CWA Circuit Type	Input Power (Watts)	Max. Input Current
Pulse Start Metal Halide	50 W	M110	120/208/240/277	M50MLTLC3M **	HX-HPF	65	1.25/0.70/0.60/0.55
	70 W	M98, M143 (C98)	480 (120V Aux)	M7048TLC3E **	HX-HPF	91	0.45
			120/208/240/277	M70MLTLC3E **	HX-HPF	89	1.70/1.00/0.85/0.75
			120/208/240/277	M70MLTLC3M	HX-HPF	95	1.70/1.04/0.87/0.78
	100 W	M90, M140 (C90)	120/277	11210-239C-TC	HX-HPF, F-Can	125	2.20/1.00
			120/208/240/277	M100MLTLC3E **	HX-HPF	124	2.60/1.55/1.30/1.15
			120/208/240/277	M100MLTLC30	HX-HPF	127	2.60/1.55/1.30/1.15
			120/277/347	M100TRILC3E **	HX-HPF	124	2.60/1.15/0.90
	150 W	M102, M142 (C142)	120/208/240/277	M150MLTLC3M	HX-HPF	185	3.32/1.93/1.66/1.48
			120/208/240/277	M150MLTLC3E **	HX-HPF	182	3.40/1.95/1.70/1.50
			120/277/347	M150TRILC3E **	HX-HPF	182	3.35/1.45/1.15
	250 W	M153, M138	120/208/240/277/480	P250ML5AC4M	CWA	285	2.45/1.42/1.22/1.05/0.62
	320 W	M154, M132	120/208/240/277/480	P320ML5AC4E **	CWA	357	3.10/1.80/1.55/1.35/0.80
			120/208/240/277	P320MLTAC4E **	CWA	356	3.10/1.80/1.55/1.35
			120/208/240/277	P320MLTAC40	CWA	365	4.10/2.50/2.00/1.85
			120/277/347	P320TRIAC4E **	CWA	356	3.75/1.65/1.25
	350 W	M131	120/277/347	P350TRIAC4E **	CWA	389	3.75/1.65/1.25
	400 W	M155, M138, M128, M172 (C172)	480 (120V Aux)	P40048TAC4E **	CWA	447	1.00
			120/208/240/277/480	P400ML5AC4E **	CWA	442	3.80/2.20/1.90/1.60/0.95
			120/208/240/277/480	P400ML5AC4L	CWA	454	3.90/2.25/1.90/1.65/0.95
			120/208/240/277	P400MLTAC4E **	CWA	442	3.90/2.25/1.95/1.70
			120/208/240/277	P400MLTAC4L	CWA	454	3.90/2.25/1.95/1.70
			120/277/347	P400TRIAC4E **	CWA	442	3.70/1.60/1.30
	450 W	M144	480 (120V Aux)	P45048TAC4E **	CWA	501	1.10
			120/208/240/277	P450MLTAC4E **	CWA	496	4.35/2.55/2.15/1.90
	750 W	M149	120/208/240/277/480	P750ML5AC5M **	CWA	820	6.95/4.00/3.50/3.00/1.75
			120/208/240/277	P750MLTAC5M **	CWA	823	7.10/4.10/3.55/3.10
	1000 W	M141	120/208/240/277/480	P1000ML5AC5E **	CWA	1068	8.95/5.15/4.45/3.85/2.25
			120/208/240/277/480	P1000ML5AC5M	CWA	1080	8.95/5.15/4.45/3.85/2.25
			120/208/240/277	P1000MLTAC5E **	CWA	1068	9.00/5.20/4.50/3.90
347/480			P1000483AC5E **	CWA	1068	3.20/2.35	

** High efficiency ballasts that meet DOE efficiency requirements for metal halide lighting fixtures (MHLF) and also meet efficiency of CSA C863-16 Standard.

MULTI-5 UNI-PAK

Lamp Type	Lamp Watts	ANSI Code	Input Volts	Catalog Nbr	Circuit Type	Input Power (Watts)	Max. Input Current
High Pressure Sodium	500 W	S51	120/208/240/277/480	S400ML5AC4M555K	CWA	465	4.00/2.30/2.00/1.70/1.10
	1000 W	S52	120/208/240/277/480	S1000ML5AC5M555K	CWA	1048	9.10/5.40/4.60/4.10/2.45
Metal Halide	175 W	M57	120/208/240/277/480	M175ML5AC3M555K	CWA	208/210	1.90/1.10/0.95/0.85/0.50
	250 W	M58	120/208/240/277/480	M250ML5AC3M555K	CWA	280	2.50/1.50/1.25/1.10/0.65
	400 W	M59	120/208/240/277/480	M400ML5AC4M555K	CWA	458	4.00/2.30/2.00/1.70/1.00
	1000 W	M47	120/208/240/277/480	M1000ML5AC5M555K	CWA	1060	8.80/5.20/4.40/3.90/2.30
Pulse Start Metal Halide	400 W	M155	120/208/240/277/480	P400ML5AC4L555K	CWA	454	3.90/2.25/1.90/1.65/0.95



Multi-5 Uni-Pak is the only HID replacement kit that offers these great benefits:

1. Gives you five taps in one: 120, 208, 240, 277 and 480 volt.
2. Packages the right ballast and lamp to ensure system compatibility — all in an easy-to-carry box.
3. Prewired capacitor (plus ignitor if needed) saves installation time and reduces wiring errors
4. Color-coded leads to reduce the risk of incorrect wiring.
5. Simple installation instruction and troubleshooting tips included.

ELECTRONIC SIGN BALLASTS (INSTANT START - PARALLEL WIRED)

Catalog Number	Total Lamp Footage		Min Starting Temp	Input Volts	Max Input Watts (T12HO/T8HO)	Max Line Current (T12HO/T8HO)	Case Dimensions (inches)			Weight (lbs.)
							Length	Height	Width	
T12HO up to 8' long or T8HO up to 6' long: 120 - 277 Volts - 50/60 Hz										
ESB216-12	2' min.	T12HO: 16' max, 1-2 lamps	-20°F (-29°C)	120	134/125	1.12/1.04	10.58	1.78	3.24	4.2
	4' min.	T8HO: 12' max, 1-2 lamps		277	130/121	0.47/0.44				
ESB432-14	4' min.	T12HO: 32' max, 1-4 lamps	-20°F (-29°C)	120	280/257	2.34/2.14	13.19	2.67	3.24	7.4
	4' min.	T8HO: 24' max, 1-4 lamps		277	274/250	0.99/0.90				
ESB848-46	8' min.	T12HO: 48' max, 4-6 lamps	-20°F (-29°C)	120	420/380	3.50/3.17	15.56	2.67	3.24	9.7
	16' min.	T8HO: 36' max, 4-6 lamps		277	415/380	1.50/1.37				
T12HO up to 10' long or T8HO up to 8' long: 120 - 277 Volts - 50/60 Hz										
ESB1040-14	10' min.	T12HO: 40' max, 1-4 lamps	-20°F (-29°C)	120	341/321	2.85/2.69	15.56	2.67	3.24	9.7
	8' min.	T8HO: 32' max, 1-4 lamps		277	331/313	1.25/1.19				

*See specification sheets for details on multiple lamp applications

ELECTRONIC SIGN BALLASTS (RAPID START - SERIES WIRED)

Catalog Number	Total Lamp Footage	Start Temp	Input Volts	Input Watts (max) (T12HO/T8HO)	Max Line Current (T12HO/T8HO)	Case Dimensions (Inches)			Weight (lbs.)	
						Case Length	Height	Width		
T12HO up to 8' long or T8HO up to 6' in length: 120 - 277Volts - 50/60 Hz										
ESR1232-240011	12' min.	T12HO: 32' max 2, 3, or 4 lamps	-20°F (-29°C)	120	282/256	2.35/2.13	14.3	1.2	3.15	3.75
		T8HO: 24' max 2, 3, or 4 lamps		277	275/252	0.99/0.90				
ESR416-120011	4' min.	T12HO: 16' max 1 or 2 lamps	-20°F (-29°C)	120	142/129	1.18/1.07	11.75	1.2	1.7	2
		T8HO: 12' max 1 or 2 lamps		277	139/128	0.5/0.46				
ESR2048-460011	20' min.	T12HO: 48' max 4, 5, or 6 lamps	-20°F (-29°C)	120	425/380	3.50/3.16	16.7	1.2	3.15	4.85
		T8HO: 36' max 4, 5, or 6 lamps		277	415/372	1.50/1.34				

DIMMING



	LAMP TYPE	QTY	Analog Dimming	Light Level Switching	Analog Dimming w/ Parallel Lamp	
T8	F17T8	1	B132PUNVSV3-A	B232PUS50-A		
		2	B232PUNVSV3-A			
	F25T8	1	B132PUNVSV3-A			
		2	B232PUNVSV3-A			
	F32T8	1	B132PUNVSV3-A			
		2	B232PUNVSV3-A			
T5 & T5HO	F14T5	1		B214PU115S50A		
		2		B228PU95S50D & B214PU115S50A		
	F21T5	1	B128PUNVSV3-D	B214PU115S50A		
		2	B228PUNVSV3-D	B228PU95S50D & B228PU115S50D		
	F28T5	1	B128PUNVSV3-D	B214PU115S50A		
		2	B228PUNVSV3-D	B228PU95S50D & B228PU115S50D		
	F35T5	1	B135PUNVSV3-D			
		2		B228PU115S50D		
	F54T5HO	1				
		2				
	CFL	CFQ/TR13W	1			
			2			
CFQ/TR18W		1				
		2				
CFQ/TR26W		1	C226UNVSV3ME			
		2	C226UNVSV3ME			
CFTR32W		1	C226UNVSV3ME			
		2				
CFM42W	1	C226UNVSV3ME				
	2					
T5	FT40W/2G11	1				
		2				
	FT55W/2G11	1				
		2				

- SuperDim Analog dimming ballasts operate with numerous industry standard compatible 0 to 10-volt controls. Most SuperDim ballasts feature universal input voltage and a dimming range down to 1% for T5 lamps and 3%.
- BallastAR light level switching ballasts operate with standard wall switches or relays to provide switching between 100% and 50% light levels or 100%/ 60%/ 30% light levels while keeping all lamps operating for full fixture illumination.
- VariPro ballasts combine fast starting and parallel lamp operation on a 0-10V Analog dimming ballast platform. Universal voltage (120-277V) and 347V models are available.
- LevelPro step-dimming ballasts provide fast starting & parallel lamp operation. Several models are available, providing various choices for input voltage and ballast factor, and all support a large selection of lamp applications.

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