

MAGNETIC HID

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PRODUCT OVERVIEW

Your Premier Lighting Ballast Solution

Ultrasave offers a full line of magnetic HID ballasts for metal halide, pulse start metal halide and high pressure sodium lamps. These core and coil, high performance ballasts offer applications for tri-tap or quad-tap, 70 to 1000 watt lamp types. They are designed to withstand tough outdoor conditions and a wide range of ambient temperature environments. They also feature UL Class H thermal insulation of 180°C maximum coil hot spot temperature to maximize heat dissipation and moisture resistance.

All of our magnetic ballasts comply with North American and International safety and performance standards including ANSI, UL, and CSA. In addition, the pulse start ballasts are EISA compliant and have a minimum efficiency of 88% for use with California's new luminaire efficiency requirement.

Product Profile & Design Highlights

CORE & COIL HID

- Metal halide, pulse start metal halide and high pressure sodium lamp applications
- Tri-tap or quad-tap, 70 to 1000 watt lamp types
- Vacuum impregnation for cooler operation and optimal insulation
- Pre-wired ignitor (and capacitor if required) distributor kits for replacement and retrofit needs
- Accessories include capacitors and/or ignitors
- Oil filled metal can capacitors rated up to 100°C
- Designed to withstand tough outdoor conditions
- Wide range of ambient temperature applications
- EISA compliant (min. 88% efficiency) pulse start ballasts

APPLICATIONS

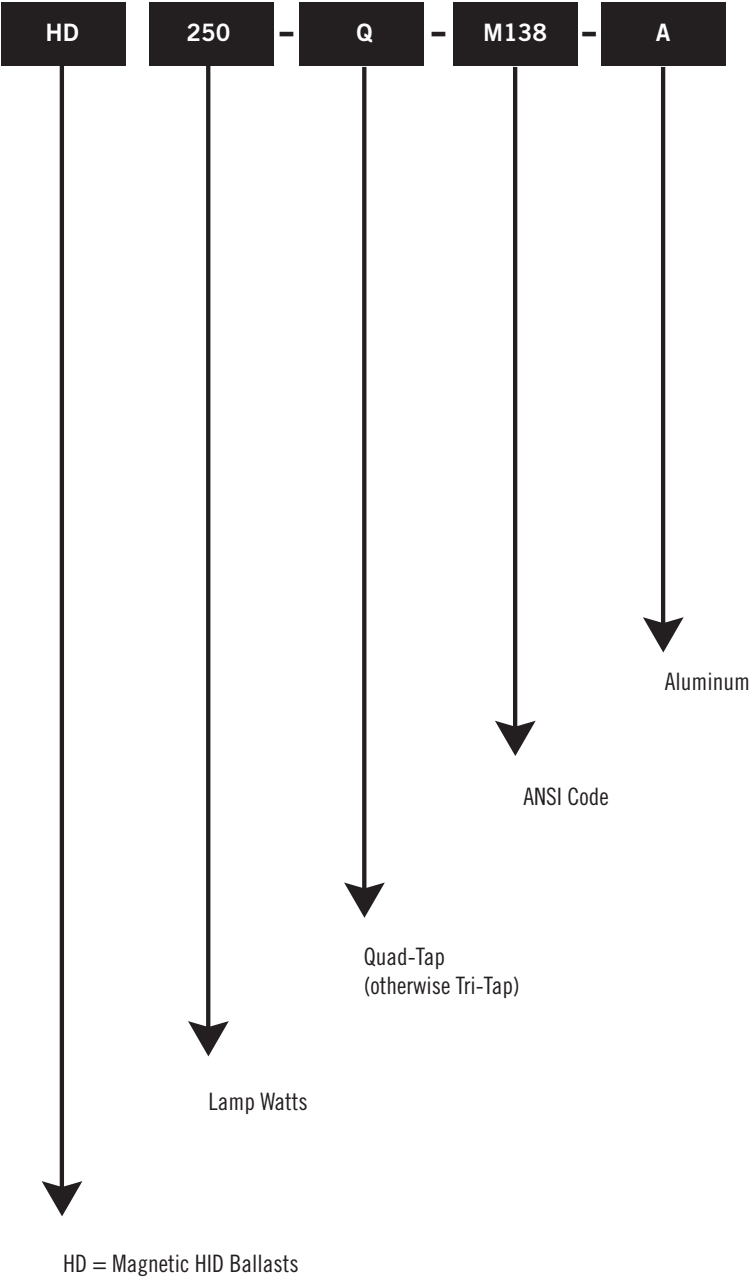
- Warehouses
- Supermarkets
- Gymnasiums
- Factories
- Retail Stores
- Outdoor Lighting

CERTIFICATIONS

- cRUus Listed and CSA Certified
- Complies with ANSI Standards
- UL Class H Thermal Insulation



MODEL NUMBER BREAKDOWN



PULSE START

METAL
HALIDE

INPUT VOLTAGE	MODEL #	CIRCUIT TYPE	WATTS INPUT	MAX. INPUT CURRENT	NOM OPEN CIRCUIT VOLTAGE	FUSE RATING (AMPS)	NON-PCB CAPACITOR			IGNITOR PART #	TOTAL WEIGHT (LBS)	DIM.			WIRING DIAG.
							MFD	MIN. VOLT	TEMP. RATING			FIG	A	B	
70 WATT LAMP, ANSI CODE M98/M143															
120 277 347	HD70-M98	HX-HPF	88	0.80 0.35 0.30	255	4 2 2	8 uF	330	100°C	HD1061	5.00	1	1.45	2.75	1
120 208 240 277	HD70-Q-M98	HX-HPF	88	0.80 0.45 0.40 0.35	255	4 3 2 2	8 uF	330	100°C	HD1061	5.00	1	1.50	2.80	4
100 WATT LAMP, ANSI CODE M90/M140															
120 277 347	HD100-M90	HX-HPF	129	1.15 0.50 0.40	280	6 3 2	12 uF	330	100°C	HD1061	5.50	1	1.70	2.90	1
120 208 240 277	HD100-Q-M90	HX-HPF	129	1.15 0.65 0.56 0.50	270	6 4 3 3	12 uF	330	100°C	HD1061	5.50	1	1.70	2.90	4
175 WATT LAMP, ANSI CODE M137/M152															
120 277 347	HD175-M137	SUPER- CWA	208	1.85 0.80 0.65	270	5 3 2	12.5 uF	400	100°C	HD2561	8.00	1	2.60	4.00	2
120 277 347	HD175-M137-A1	SUPER- CWA	208	1.80 0.80 0.65	300	5 3 2	12.5 uF	400	100°C	HD2561	8.00	1	2.45	4.00	2
120 208 240 277	HD175-Q-M137-A	SUPER- CWA	189	1.75 1.00 0.85 0.75	285	5 3 3 2	12.5 uF	400	100°C	HD2561	9.11	3	3.07	4.38	5
250 WATT LAMP, ANSI CODE M138/M153															
120 277 347	HD250-M138	CWA	295	2.50 1.10 0.90	300	8 3 3	15 uF	400	100°C	HD2561	9.50	2	1.50	3.10	2
120 277 347	HD250-M138-A1	CWA	295	2.50 1.05 0.85	300	8 3 3	17 uF	400	100°C	HD2561	9.50	2	1.60	3.10	2
120 208 240 277	HD250-Q-M138-A	CWA	284	2.50 1.45 1.25 1.10	300	8 5 5 3	17 uF	400	100°C	HD2561	9.20	2	1.60	3.10	5
400 WATT LAMP, ANSI CODE M135/M155															
120 277 347	HD400-M135-A	CWA	450	4.00 1.75 1.40	300	10 5 4	26 uF	400	100°C	HD2561	10.00	2	1.77	3.65	2
120 277 347	HD400-M135-A1	CWA	450	4.00 1.75 1.40	300	10 5 4	26 uF	400	100°C	HD2561	11.00	2	2.08	3.65	2
120 208 240 277	HD400-Q-M135-A	CWA	447	4.00 2.30 2.00 1.75	300	10 7 5 5	26 uF	400	100°C	HD2561	11.00	2	2.10	3.94	5

* DISTRIBUTOR KITS AVAILABLE FOR ALL MAGNETIC HID - CORE & COIL MODELS

INPUT VOLTAGE	MODEL #	CIRCUIT TYPE	WATTS INPUT	MAX. INPUT CURRENT	NOM OPEN CIRCUIT VOLTAGE	FUSE RATING (AMPS)	NON-PCB CAPACITOR			IGNITOR PART #	TOTAL WEIGHT (LBS)	DIM.			WIRING DIAG.
							MFD	MIN. VOLT	TEMP. RATING			FIG	A	B	
175 WATT LAMP, ANSI CODE M57/M107															
120 277 347	HD175-M57-A	CWA	210	1.90 0.85 0.65	350	5 2 2	10.5 uF	400	100°C	N/A	7.00	1	2.50	3.70	3
120 277 347	HD175-M57-A1	CWA	210	1.80 0.80 0.65	350	5 2 2	10.5 uF	400	100°C	N/A	7.00	1	2.45	3.70	3
120 208 240 277	HD175-Q-M57-A	CWA	200	1.90 1.10 0.95 0.82	350	5 3 3 3	10.5 uF	400	100°C	N/A	6.60	1	2.80	4.00	6
250 WATT LAMP, ANSI CODE M58/H37															
120 277 347	HD250-M58-A	CWA	295	2.50 1.10 0.90	350	8 3 3	15 uF	400	100°C	N/A	10.00	2	1.64	3.10	3
120 277 347	HD250-M58-A1	CWA	295	2.50 1.05 0.85	350	8 3 3	15 uF	400	100°C	N/A	10.00	2	1.60	3.10	3
120 208 240 277	HD250-Q-M58-A	CWA	278	2.50 1.45 1.25 1.10	310	8 5 5 3	15 uF	400	100°C	N/A	10.00	2	1.60	3.10	6
400 WATT LAMP, ANSI CODE M59/H33															
120 277 347	HD400-M59-A	CWA	460	4.00 1.75 1.40	350	10 5 4	24 uF	400	100°C	N/A	11.00	2	2.00	4.00	3
120 277 347	HD400-M59-A1	CWA	460	4.00 1.75 1.40	300	10 5 4	24 uF	400	100°C	N/A	12.00	2	2.08	4.00	3
120 208 240 277	HD400-Q-M59-A	CWA	440	4.00 2.35 2.05 1.76	300	10 7 5 5	24 uF	400	100°C	N/A	12.00	2	2.00	4.00	6
1000 WATT LAMP, ANSI CODE M47															
120 277 347	HD1000-M47	CWA	1030	8.50 3.75 2.95	425	20 10 8	24 uF	480	180°C	N/A	22.00	4	3.00	5.00	3

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INPUT VOLTAGE	MODEL #	CIRCUIT TYPE	WATTS INPUT	MAX. INPUT CURRENT	NOM OPEN CIRCUIT VOLTAGE	FUSE RATING (AMPS)	NON-PCB CAPACITOR			IGNITOR PART #	TOTAL WEIGHT (LBS)	DIM.			WIRING DIAG.
							MFD	MIN. VOLT	TEMP. RATING			FIG	A	B	
70 WATT LAMP, ANSI CODE S62															
120 277 347	HD70-S62	HX-HPF	93	0.81 0.35 0.30	142	5 2 2	7 uF	330	100°C	HD1541	5.50	1	1.50	3.10	1
100 WATT LAMP, ANSI CODE S54															
120 277 347	HD100-S54	HX-HPF	130	1.15 0.50 0.39	155	7 3 3	10 uF	330	100°C	HD1541	7.50	1	2.25	3.60	1
150 WATT LAMP, ANSI CODE S55															
120 277 347	HD150-S55	HX-HPF	188	1.65 0.72 0.56	139	10 4 3	14 uF	330	100°C	HD1541	7.50	1	2.50	3.80	1
250 WATT LAMP, ANSI CODE S50															
120 277 347	HD250-S50	CWA	295	2.70 1.15 0.93	197	7 3 2	35 uF	330	100°C	HD2541	11.50	2	1.94	3.60	2
400 WATT LAMP, ANSI CODE S51															
120 277 347	HD400-S51	CWA	464	3.80 1.70 1.32	209	10 5 5	55 uF	240	100°C	HD2541	13.50	2	2.30	4.00	2
1000 WATT LAMP, ANSI CODE S52															
120 277 347	HD1000-S52	CWA	1100	9.35 4.05 3.25	420	25 15 10	26 uF	525	100°C	HD10041	26.50	4	3.75	5.80	2

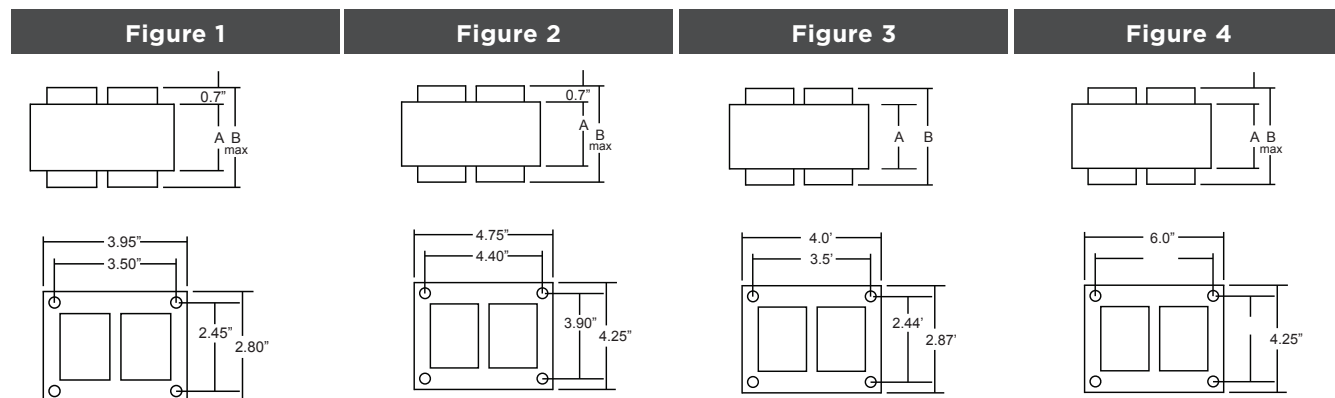
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CAPACITORS

MFD	VOLTAGE	MODEL #	CASE TYPE	CASE	HT. (")	TOTAL WEIGHT (KG)
7	330V	CAP-M-7UF-330V	METAL	1.75 DIA	2.75	0.14
8	330V	CAP-M-8UF-330V	METAL	1.75 DIA	2.75	0.14
10	330V	CAP-M-10UF-330V	METAL	1.75 DIA	2.75	0.14
10	400V	CAP-M-10UF-400V	METAL	1.75 DIA	2.75	0.14
10.5	400V	CAP-M-10.5UF-400V	METAL	1.75 DIA	2.75	0.14
12	330V	CAP-M-12UF-330V	METAL	1.75 DIA	2.75	0.14
12.5	400V	CAP-M-12.5UF-400V	METAL	1.75 DIA	3.25	0.14
14	330V	CAP-M-14UF-330V	METAL	1.75 DIA	3.25	0.14
15	400V	CAP-M-15UF-400V	METAL	1.75 DIA	3.25	0.17
17	400V	CAP-M-17UF-400V	METAL	1.75 DIA	3.25	0.15
24	400V	CAP-M-24UF-400V	METAL	1.75 DIA	3.75	0.20
26	400V	CAP-M-26UF-400V	METAL	1.75 DIA	3.75	0.20
35	330V	CAP-M-35UF-330V	METAL	1.75 DIA	3.75	0.20
55	240V	CAP-M-55UF-240V	METAL	1.75 DIA	4.25	0.34

MODEL #	LAMP WATTAGE	DESCRIPTION	TOTAL WEIGHT (KG)
METAL HALIDE			
HD1061	70, 100	FOR 70 WATT M98, AND 100 WATT M90 LAMPS	0.10
PULSE START METAL HALIDE			
HD2561	175, 250, 400	FOR 175 WATT M137, 250 WATT M138, AND 400 WATT M135 LAMPS	0.10
HIGH PRESSURE SODIUM			
HD1541	70, 100, 150	FOR 70 WATT S62, 100 WATT S54, AND 150 WATT S55 LAMPS	0.10
HD2541	250, 400	FOR 250 WATT S50, AND 400 WATT S51 LAMPS	0.10

DIMENSIONS



WIRING DIAGRAMS

