

ELECTRONIC HID

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PRODUCT OVERVIEW

Your Premier Lighting Ballast Solution

Ultrasave's low wattage electronic ballasts for metal halide and high pressure sodium lamps are the ultimate choices for your HID needs. They are designed with superior lamp wattage regulation, optimizing lamp colour stability over life and reducing lamp-to-lamp colour variations. In addition, the electronic circuitry design offers significant energy savings and cost reductions, and enables the ballasts to run cooler and operate quieter than standard magnetic HID alternatives.

Product Profile & Design Highlights

ELECTRONIC HID

- Programmed cold start
- 20 to 150 watt metal halide and high pressure sodium lamp types
- Dedicated or multiple input voltage options
- Minimum starting temperature -22°F / -30°C
- <10% THD and >0.99 PF
- 90°C case temperature rating
- Lightweight and small ballast housing
- For side or bottom exit leads
- Lamp end-of-life protection circuitry
- Thermal or programmed electronic protection options
 - Thermal protection: prevents overheating (thermal stress) by shutting down the system when operating temperatures reach unacceptable levels
 - Programmed electronic protection: the ballasts incorporate a microprocessor controller, offering 30 striking attempts before shutting down the system should the lamp fail to ignite or cycle on and off at the end of life.
- Available with dedicated 120VDC output for self-heating thermal protectors

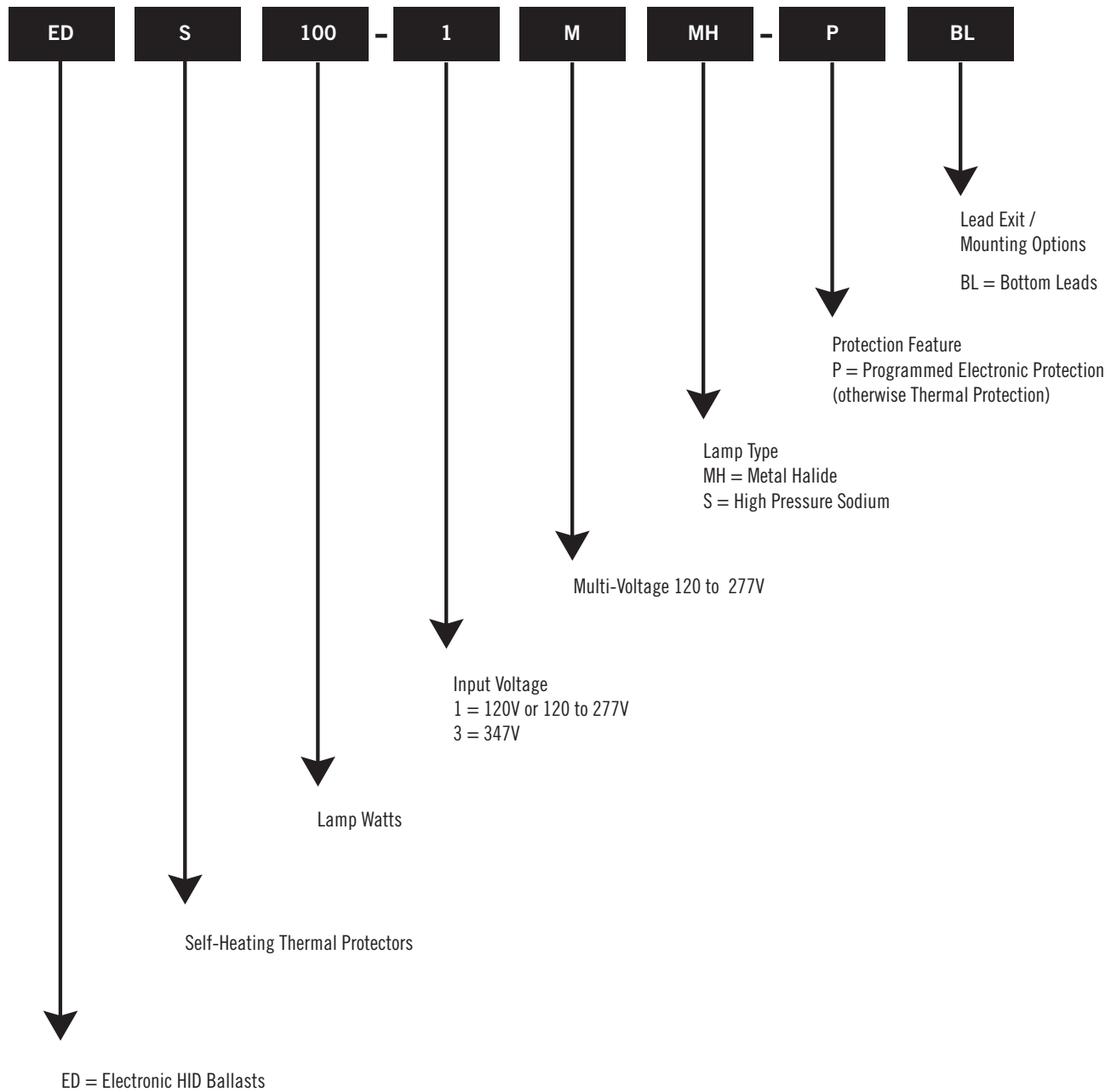


APPLICATIONS

- Retail Stores
- Show Rooms
- Conference Rooms
- Display Areas

CERTIFICATIONS

- Underwriters Laboratories (cULus) Listed
- Complies with ANSI Standard C62.41
- Meets FCC Part 18 Class A for EMI & RFI (Non-Consumer Limits)
- Does not contain Polychlorinated Biphenyl (PCBs)
- Class P Type 1 Outdoor, Type HL
- RoHS Compliant



METAL HALIDE

LAMP WATTS	MODEL #	INPUT VOLTAGE	INPUT CURRENT (AMPS)	INPUT POWER (WATTS)	MIN. STARTING TEMP (°F/°C)	MAX. THD %	MIN. POWER FACTOR	BALLAST FACTOR	PROTECTION FEATURE	DIM.	WIRING DIAG.
20 WATT LAMP, ANSI CODE M156											
20	ED20-1MMH	120 277	0.21 0.09	24	-22 / -30	10	0.99	0.99	THERMAL	1	1
20	ED20-3MH	347	0.07	24	-22 / -30	10	0.99	1.00	THERMAL	1	1
20	ED20-3MH-BL	347	0.07	24	-22 / -30	10	0.99	1.00	THERMAL	4	1
35/39 WATT LAMP, ANSI CODE M130											
35 / 39	ED35-1MMH	120 277	0.37 0.16	43	-22 / -30	10	0.99	1.00 / 0.90	THERMAL	1	1
35 / 39	ED35-1MMH-BL	120 277	0.37 0.16	43	-22 / -30	10	0.99	1.00 / 0.90	THERMAL	4	1
35 / 39	ED35-3MH	347	0.12	43	-22 / -30	10	0.99	1.00 / 0.90	THERMAL	1	1
35 / 39	ED35-3MH-BL	347	0.12	43	-22 / -30	10	0.98	1.00 / 0.90	THERMAL	4	1
50 WATT LAMP, ANSI CODE M110											
50	ED50-1MMH-P	120 277	0.52 0.23	61	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	5	1
50	ED50-3MH-P	347	0.17	59	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	5	1
70 WATT LAMP, ANSI CODE M85/M98/M139/M143											
70	ED70-1MMH-P	120 277	0.63 0.27	81	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	5	1
70	EDS70-1MMH-PBL	120 277	0.67 0.29	80	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	6	2
70	ED70-3MH-P	347	0.23	79	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	5	1
70	EDS70-3MH-PBL	347	0.23	79	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	6	2
100 WATT LAMP, ANSI CODE M90/M140/M164											
100	ED100-1MMH-P	120 277	0.93 0.41	110	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	5	1
100	EDS100-1MMH-PBL	120 277	0.93 0.41	110	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	6	2
100	ED100-3MH-P	347	0.32	110	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	5	1
100	EDS100-3MH-PBL	347	0.32	110	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	6	2
150 WATT LAMP, ANSI CODE M81/M102/M142											
150	ED150-1MH-P	120	1.32	158	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	3	1
150	EDS150-1MH-PBL	120	1.32	158	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	3	2
150	ED150-3MH-P	347	0.47	160	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	3	1
150	EDS150-3MH-PBL	347	0.47	160	-22 / -30	10	0.99	1.00	PROGRAMMED ELECTRONIC	3	2

LAMP WATTS	MODEL #	INPUT VOLTAGE	INPUT CURRENT (AMPS)	INPUT POWER (WATTS)	MIN. STARTING TEMP (°F/°C)	MAX. THD %	MIN. POWER FACTOR	BALLAST FACTOR	PROTECTION FEATURE	DIM.	WIRING DIAG.
HIGH PRESSURE SODIUM											
70	ED70-1MS	120 277	0.70 0.31	84	-22 / -30	10	0.99	1.00	THERMAL	5	1
100 WATT LAMP, ANSI CODE S54											
100	ED100-1MS	120 277	0.94 0.41	112	-22 / -30	10	0.99	1.00	THERMAL	2	1

Figure 1

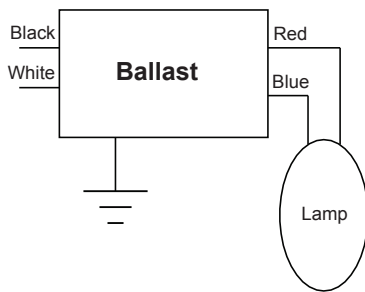
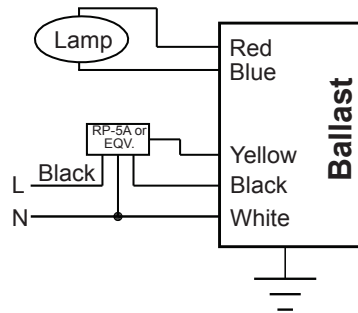


Figure 2



BALLAST DIMENSIONS

DIM. #	LENGTH	WIDTH	HEIGHT	MOUNTING
1	6.22"	1.75"	1.22"	5.90"
2	6.85"	3.58"	1.75"	6.46"
3	6.81"	3.58"	1.73"	6.50"
4	4.37"	2.98"	1.27"	2.00"
5	5.45"	3.58"	1.57"	5.04"
6	5.43"	3.58"	1.26"	5.04"