

Electronic HID Ballasts

Universal Lighting Technologies' newest line of electronic HID ballasts, E-Tensity, provides you with the cost saving, performance improving option of incorporating electronic ballast technology with HID lamps. Ballasts available for Metal Halide lamps ranging from 20 Watts to 400 Watts, E-Tensity provides you with energy saving, performance driven solutions for your HID applications. E-Tensity ballasts are ideal for most installations where standard magnetic HID ballasts are typically specified. The E-Tensity ballasts can provide significant energy savings over a standard magnetic system and in an installation, can provide the same number of system design lumens with almost 40% fewer fixtures. That's because E-Tensity ballasts improve lamp performance, resulting in better lumen maintenance over the lamp's life. The lumen maintenance with E-Tensity at 18,000 hours is still higher than a standard magnetic system at 12,000 hours, which extends the time required between lamp replacements due to loss of light by as much as 50%. Over a ten year span, the life cycle cost of an E-Tensity ballasted HID system can save you 39% over a standard metal halide system. From start to finish, E-Tensity is the right choice for the lowest life cycle HID lighting costs while providing optimum lighting performance.



E-Tensity ballasts cover applications ranging from 20-Watts Metal Halide to 400-Watts Pulse Start Metal Halide.

Product Overview

E-Tensity with SuperDim

Included in the **E-Tensity** family is the **E-Tensity with SuperDim** line of electronic dimming HID ballasts. With the use of industry standard 0 to 10 volt analog controls, **E-Tensity with SuperDim** ballasts can dim from full light levels down to 50% power levels. They are also compatible with standard photocells for energy saving daylight harvesting applications. Occupancy sensors can also be incorporated for switching the lighting levels. **E-Tensity with SuperDim** will respond immediately to the control signal inputs and bring light levels from dim to full bright.

E-Tensity Product Offerings

- **Low Wattage: 20, 39, 70, 100, and 150 Watt Metal Halide Lamps**
 - Side Exit (SE) and Bottom Exit w/ Studs (BS) models available
 - Fixed light output and dimming products
 - 120-Volt and 120-277 Volt (Universal voltage)
- **High Wattage: 250, 320, 350, and 400 Watt Pulse Start Lamps**
 - Side Exit (SE) and Bottom Exit w/ Studs (BS) models available
 - Fixed light output and dimming products
 - 200-277 Volt (Mid-range voltage)

E-Tensity Features

- Microprocessor technology for precision control
- Regulated lamp power
- Lamp monitoring
- Smallest ballast housing available
- Maximum case temperature of 75° C
- Minimum start temperature of –30°C
- High power factor (>90%)
- Low Total Harmonic Distortion (THD< 20%)
- Incorporates end-of-lamp life shutdown circuit
- Short circuit and open circuit protection
- Auto-Shutdown when lamps do not ignite
- Conforms to FCC Title 47 CFR part 18 requirements for non-consumer applications
- Thermally protected to prevent damage when temperatures exceed acceptable levels

E-TENSITY ELECTRONIC HID METAL HALIDE AND PULSE START METAL HALIDE LAMPS

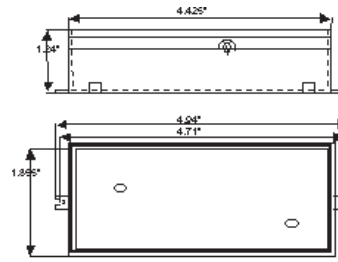
- High Efficiency
- Improved Lumen Maintenance
- Quiet Operation

Catalog Number	Lamp Wattage	Lamp Type (and compatible equivalent lamps)	Volts	Input Watts	Nominal Line Amps	Dimensions	Wiring Diagram
EC20120xx	20	M156	120	24	0.20	5	1
EC20UNVxx	20	M156	120	24	0.20	1	1
EC39120xx	39	M130	120	45	0.38	5	1
EC39UNVxx	39	M130	120	45	0.38	1	1
EC70UNVxx	70	M98, M139, M143	120	78	0.65	2	2
EC100UNVxx	100	M90, M140	120	113	0.94	2	2
EC150UNVxx	150	M102, M142	120	166	1.39	3	2
EP350MRVSE	350	M131	208	376	1.84	4	1
EP400MRVSE	400	M128, M155	208	432	2.10	4	1
			277	428	1.59		

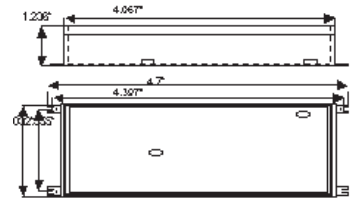
xx = SE (Side Lead Exit) or BS (Bottom Lead Exit with Studs)

For all models: THD < 20%
Power Factor > .90

Dimensions	Overall Length	Overall Width	Mounting	Height
1	4.94"	1.86"	4.71"	1.24"
2	4.70"	3.03"	4.40"	1.24"
3	4.65"	3.37"	4.35"	1.50"
4	8.47"	3.43"	8.07"	2.16"
5	4.36"	1.78"	4.01"	1.24"



Dimension #1



Dimension #2

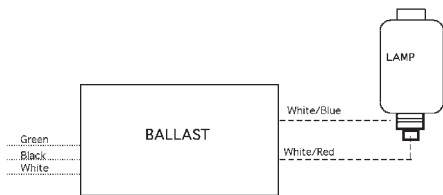
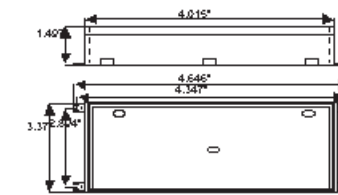
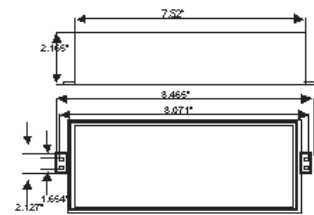


Fig 1



Dimension #3



Dimension #4

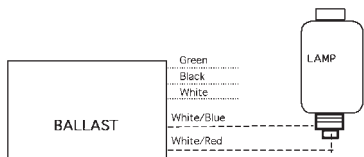
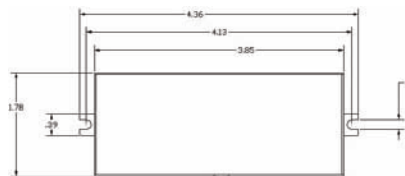
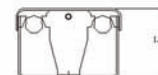


Fig 2



Dimension #5



- High Efficiency
- Improved Lumen Maintenance
- 0 to 10-Volt analog controls
- Switch/Relay controllable for Bi-level switching

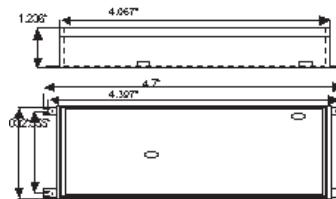
E-TENSITY WITH SUPERDIM DIMMING HID METAL HALIDE AND PULSE START METAL HALIDE LAMPS

Catalog Number	Lamp Wattage	Lamp Type (and compatible equivalent lamps)	Volts	Input Watts	Nominal Line Amps	Dimensions	Wiring Diagram
EC70UNVAXx	70	M98, M139, M143	120	78	0.65	2	3
			277	78	0.31		
EP250MRVASE	250	M153	208	278	1.36	4	4
			277	277	1.06		
EP320MRVASE	320	M154	208	346	1.70	4	4
			277	344	1.32		
EP400MRVASE	400	M128, M155	208	432	2.10	4	4
			277	428	1.59		

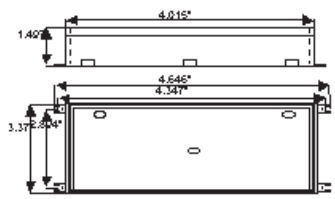
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Dimension #2



Dimension #3

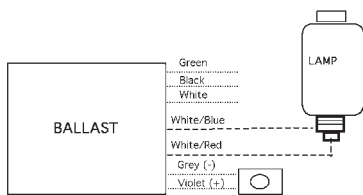


Fig 3

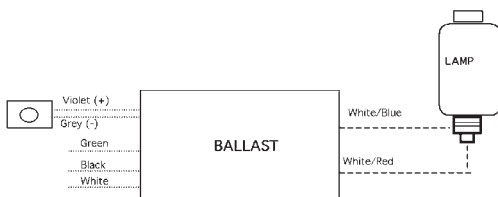
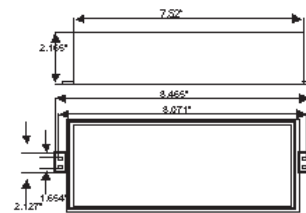


Fig 4



Dimension #4