GE
Lighting

ULTRAMAX eHID
Superior Lumen Maintenance

GE 20, 39, 50 & 70 Watt Mini-Square Electronic HID Ballast

GE's line of ultra cool UltraMax® eHID electronic ballasts provide up to 70% energy savings vs. traditional electromagnetic HID ballasts. Luminaires operation UltraMax® eHID ballasts offer 2-4 times the life of standard halogen lamps. End users get the cost savings and the advantages offered in meeting strict watts per square foot requirements with these systems. UltraMax® eHID is a high energy efficiency ballast that uses less wattage to provide full light output. The UltraMax® mini-square eHID ballasts are designed for track, junction box and other small fixture designs that require high efficiency energy savings, long life and maximum performance with ceramic metal halide lamps. The mini-square meets the industry standard small can dimensions.

You can count on GE to answer your lamp and ballast questions at 1-888-GEBALLAST.

Performance Features

- Saves energy! Reduce energy consumption by up to 62% by replacing (2) 100PAR/HIR/FL25 with one CMH70 PAR and accompanying UltraMax eHID ballast, saving $541.00*
- Over 90% energy efficient ballasts
- Low watts per square foot and long lamp life provide lower cost of ownership compared to halogen
- Low frequency square wave electronic ballast maximizes ceramic metal halide performance and lamp life
- Industry standard mini-square can size
- High power factor
- Ultra cool –75C/5 year limited warranty
- 2% output regulation over accepted ANSI lamp voltages reduces visual flicker and maintains consistent lamp color. EM lag ballasts have up to 20% change in output power over the same lamp variation range which results in an increase in power (watts) to the lamp as the voltage increases over the life of the lamp.

Applications

- Replacement of electromagnetic HID ballasts
- Replacement of 100W HIR or 250W quartz halogen
- Any track, recessed down light, outdoor landscape or wallpack application where watts per square foot are critical

Benefits of Electronic Systems

Ballast	Lamp Type	System 120V or 120/277V Track Lamp	Performance					Benefits Comparison		
			Initial Lumens	CBCP	Watts	LPW	Lamp Life (hrs)	% Lumen increase	% Savings (W)	Lamp Life (X)
UltraMax eHID 20W	PAR	50PAR/HIR/FL25	800	3400	50	16	3000	33%	54%	4.0
		CMH20/PAR30/FL25	1200	4900	23	52	12000			
	T	Q75CL/MC/CD	1050		75	14	1000	34%	69%	12.0
		CMH20/T/U/G12	1600		23	69	12000			
UltraMax eHID 39W	PAR	100PAR/HIR/FL25	2030	7000	100	20	3000	15%	57%	3.3
		CMH39/PAR30L/FL25	2400	11000	43	56	10000			
	T	Q150/CL/MC	2800		150	18	2000	18%	71%	5.0
		CMH39/T/U/G12	3400		43	79	10000			
UltraMax eHID 70W	PAR	(2) 100PAR/HIR/FL25	4060	(2) 7000	200	20	3000	15%	62%	3.3
		CMH70/PAR38/FL25	4800	14000	77	62	10000			
	T	Q250CL/MC(T4)	5000		250	20	2000	19%	69%	7.5
		CMH70/T/U/G12	6200		77	81	15000			
Ultramax eHID 100W	PAR	(3) 100PAR/HIR/FL25	6090	7000	300	20.3	3000	6%	63%	3.3
		CMH100PAR38FLECO	6500	15000	110	65	10000			

Utilizing a 20W HID versus a halogen 50PAR/HIR/FL25 reduces energy consumption by 54%, increases lumens 33%, provides 4x lamp life, saving $108.00*
Utilizing a 39W HID versus a halogen 100PAR/HIR/FL25 reduces energy consumption by 57%, increases lumens by 15%, provides 3.3x lamp life, saving $250.80*
Utilizing a 70W HID versus two halogen 100PAR/HIR/FL25 reduces energy consumption by 62%, increases lumens by 15%, provides 3.3x lamp life, saving $541.20*

*@ $.11 kwh over life of ballast, approximately 4 lamp replacements or 40,000 hours

imagination at work

GE 20, 39, 50 & 70 Watt Mini-Square Electronic HID Ballast

Product Code	Description	ANSI Designation	Line Voltage	System Watts	Nominal Current	Power Factor	THD%	Ballast Efficiency
63042	GEMH20-MSJ-MV	M/C156	120	23	0.21	> 95%	7.0%	86.0%
			277	23	0.09	> 95%	11.0%	86.0%
63043	GEMH20-MSF-MV	M/C156	120	23	0.21	> 95%	7.0%	86.0%
			277	23	0.09	> 95%	11.0%	86.0%
63044	GEMH39-MSJ-MV	M/C130	120	45	0.39	> 95%	6.0%	87.0%
			277	44	0.17	> 95%	12.5%	89.0%
63045	GEMH39-MSJ-MV	M/C130	120	45	0.39	> 95%	6.0%	87.0%
			277	44	0.17	> 95%	12.5%	89.0%
87501	GEMH39-MSF	M130	120	43	0.37	> 99%	6.8%	91.0%
87516	GEMH50-MSF	M110, M/C148	120	58	0.48	> 99%	6.9%	91.0%
87531	GEMH70-MSF	M98, M/C143	120	77	0.68	> 99%	8.3%	91.0%

Specifications

- Line Voltage120VAC, or 277 +/-10%, 50-60Hz
- Short Circuit Protection
- End of Life lamp protection
- Low Frequency Square Wave
- Lamp operating frequency: 130Hz
- OCV- 350Vrms (Vpk-4.0kV)
- Lamp current crest factor <1.4
- Remote mounting distance = 8ft (18AWG)
- Meets ANSI Standard C62.41-1991
- ANSI approved pulse starting ensures high voltage reliable starting
- Side lead wires with mounting feet – MSF
- Bottom lead wire with mounting stud – MSJ
- Metal housing for outdoor applications 63042, 63043, 63022, 63045
- No ground wire required
- Meets FCC Part 18 (Class A) for EMI and RFI,Non-Consumer Limits
- UL C-UL 1029 listed
- RoHS Compliant (Reduction in Hazardous Substances)
- Housing meets UL94VO flame retardant – 87501, 87516, 87531
- Inherent Thermal Protection
- Minimum Starting Temp: 0F, -18C
- 10" +2/-0" lead wires 18AWG 200C
- Max Case Temp 194F/90C 3yr, 167F/75C 5yr
- UL listed suitable for recessed use

The Power Behind the Power

UltraMax® eHID electronic ballasts are custom-manufactured to our demanding Six Sigma specifications for dependable performance with 100% burn in at the factory to ensure every ballast is ready to go on-site.

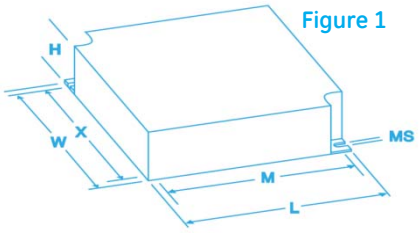

Figure 1

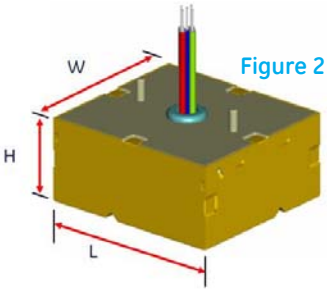

Figure 2

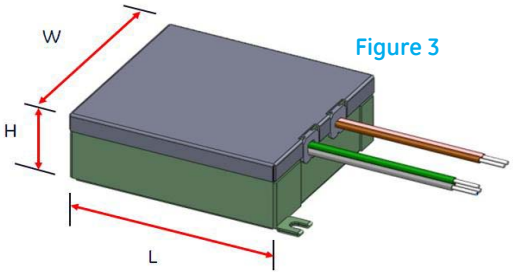

Figure 3

Lamp Operation

M/C130, M/C156 , M110, M/C14,8, M98, M/C143 Pulse Arc or Ceramic Metal Halide lamps

Packaging

.617 lbs each

	Case Dimensions			Mounting Dimensions		
	Length (L)	Width (W)	Height (H)	Mount Length (ML)	Mount Width (MW)	Mount Slot /Stud (MS)
Figure 1	3.74 in 88.5 mm	2.98 in 75.6 mm	1.21 in 30.6 mm	3.39 in 86.2 mm	2.51 in 63.8 mm	0.17 in 4.1 mm
Figure 2	3.27 in 83 mm	2.99 in 76 mm	1.54 in 39 mm	2.0 in 50.8mm		8-32
Figure 3	3.35 in 84.6 mm	3.10 in 78.6 mm	1.20 in 30.4 mm	3.78 in 96 mm	2.64 in 67 mm	0.17 in 4.2 mm

Transforming the POWER of Light ™

GE National Customer Service Center
1-888-GEBALLAST (432-2552)

Information provided is subject to change without notice. Please verify all details with GE. All values are design or typical values when measured under laboratory conditions, and GE makes no warranty or guarantee, express or implied, that such performance will be obtained under end-use conditions.

For additional product and application information, please consult GE's Website: www.gelighting.com

89609 8/2011 Printed in USA