

Watran by Lighting and Power T e c h n o l o g i e s L L C		Electronic Ballast 50W for MH Lamps(M148,M110)	Catalog Number 80106 HQEB-MH50/120LA2F			
Electrical Characteristics						
Parameter	Symbol	Conditions	Min	Nom	Max	Unit
Line voltage	U _N	AC	108	120	132	V
Perm.voltage fluctuations		AC	96	—	144	V
Lamp wattage	PL	Nominal and ±variations, after work stable	56	58	60	W
Losses		Nominal and ±variations, after work stable	—	—	7	W
Line frequency	f _N		50	—	60	Hz
Line current	I _N	at 120V	0.46	0.48	0.50	A
Power factor	λ	Nominal and ±variations, after work stable	0.95	—	—	
Crest Factor	CF	Nominal and ±variations, after work stable	—	—	1.4	
Operating frequency		Nominal and ±variations, after work stable	165	—	185	Hz
Ignition voltage			3	—	4	KV
Pulse width of Ignition voltage		Ignition voltage at 2.7KV	0.5	—	—	uS
wiring length			—	—	15	feet
temperature at point tc	tc		—	—	80	°C
ambiemt temperature ta	ta		-20	—	+50	°C
Life time		ta=50°C	50000	—	—	h
2nd Harmonic	-	25°C, Nominal Input	—	—	2	%
3rd Harmonic	-	25°C, Nominal Input	—	—	30*λ	%
5th Harmonic	-	25°C, Nominal Input	—	—	10	%
7th Harmonic	-	25°C, Nominal Input	—	—	7	%
9th Harmonic	-	25°C, Nominal Input	—	—	5	%
11~39th Harmonic	-	25°C, Nominal Input	—	—	3	%
Wiring Diagram & Dimensions						
89 66 89 75 30.5 D green black white red blue AC power BALLAST						
Lighting and Power T e c h n o l o g i e s L L C 7101 Whisperfield Dr. Plano, TX 75024 PH: 972-624-5000 Fax; 972 624-5800 Tech Support: 877 666-5267 sales@lightingandpowertech.com www.lightingandpowertech.com						