

# HID Lamps Series

## HID 灯系列



高效节能



超长寿命



光线健康

### 产品描述

高强度气体放电灯 (简称 HID), 主要包括高压汞灯、高压钠灯、金属卤化物灯等。

主要应用于仓库、街道、建筑、商业照明和其他一些特殊场合如植物栽培和捕鱼等。

### Product Description

High Intensity Discharge Lamp(H.I.D) mainly include High Pressure Mercury Lamp,High Pressure Sodium Lamp, Metal Halide Lamp etc.

Nowadays they are mostly applied in warehouse, street, architectural lighting, commercial lighting and planting and fishing etc.



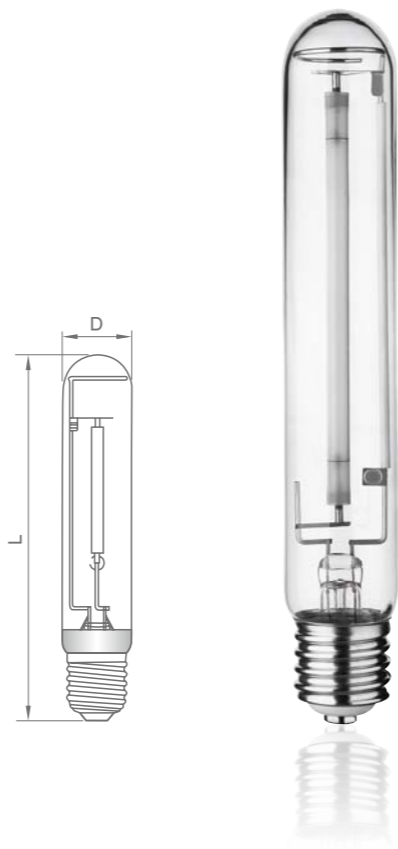
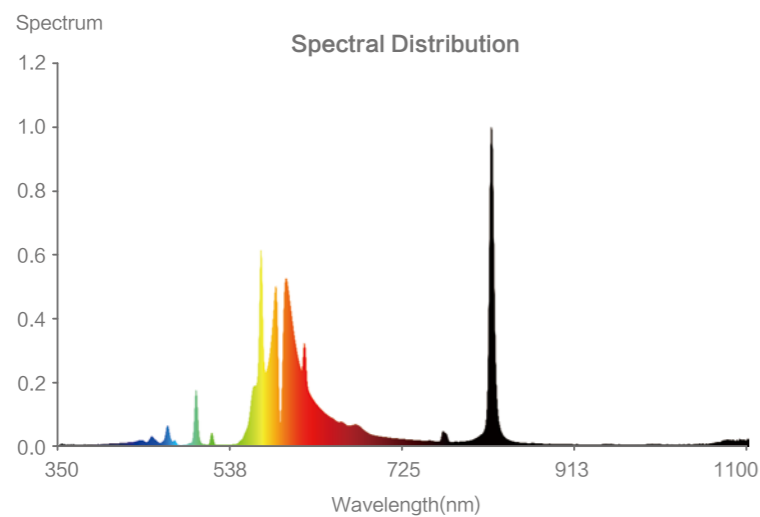


# Plant Growth HPS Lamp

## 农用钠灯

### 说明 Instructions

- 采用国际领先的低钠汞齐技术，更加绿色环保。
- 更高的流明维持率和 PAR 输出。
- 对光谱的调整使蓝光部分增加 30%，为植物的生长提供了所需的红波能量和蓝波能量的平衡，使作物生长周期缩短，蔬菜果实颜色更加润泽。
- Designed based on low sodium amalgam technology, the plant growth HPS lamp is also eco-friendly.
- Through light spectrum adjustments, this lamp emits 30% more blue light. This helps shorten the growth cycle of plants and improves their color.



### 技术参数 Technical Parameters

灯泡型号	功率	工作电流	工作电压	灯头型号	直径	全长	色温	显色指数	PAR	PPF	平均寿命
Description	Wattage (W)	Operating Current(A)	Operating Voltage(V)	Base	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	W	u mol/s	AV Life (h)
SON-T250W Agro	250	3.00	100	E40	48	257	2000K	20	82.5	415	28000
SON-T400W Agro	400	4.30	100	E40	48	285	2000K	20	141	712	28000
SON-T600W Agro	600	6.10	110	E40	48	290	2000K	20	225	1125	28000
SON-T600W Agro 400V	600	3.30	190	E40	48	290	2000K	20	220	1100	28000

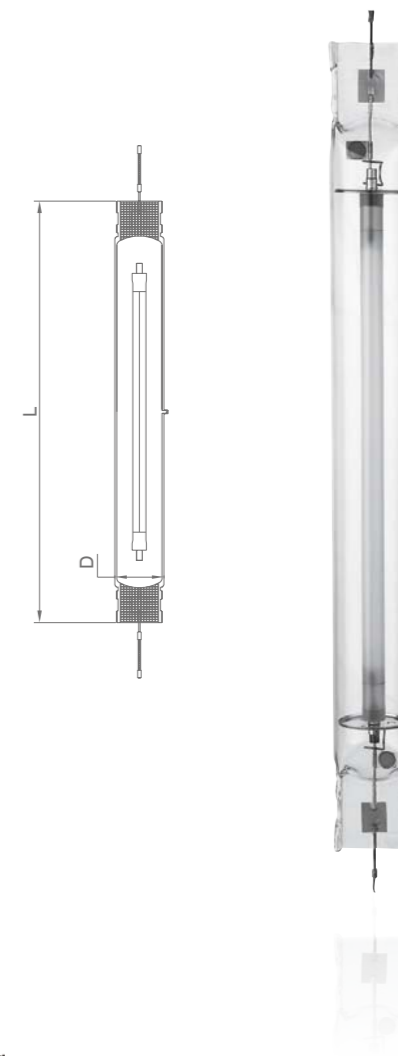
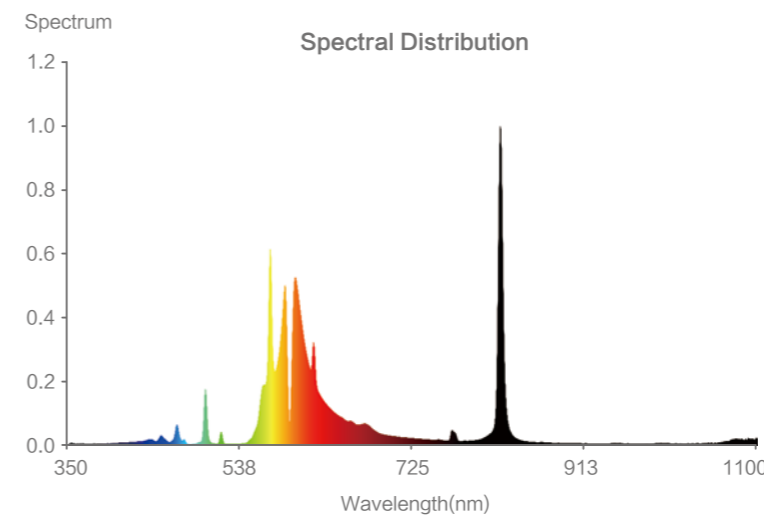


# Plant Growth HPS Lamp

## 农用钠灯

### 说明 Instructions

- 采用国际领先的低钠汞齐技术，更加绿色环保。
- 更高的流明维持率和 PAR 输出。
- 对光谱的调整使蓝光部分增加 30%，为植物的生长提供了所需的红波能量和蓝波能量的平衡，使作物生长周期缩短，蔬菜果实颜色更加润泽。
- Designed based on low sodium amalgam technology, the plant growth HPS lamp is also eco-friendly.
- Through light spectrum adjustments, this lamp emits 30% more blue light. This helps shorten the growth cycle of plants and improves their color.



### 技术参数 Technical Parameters

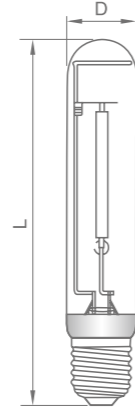
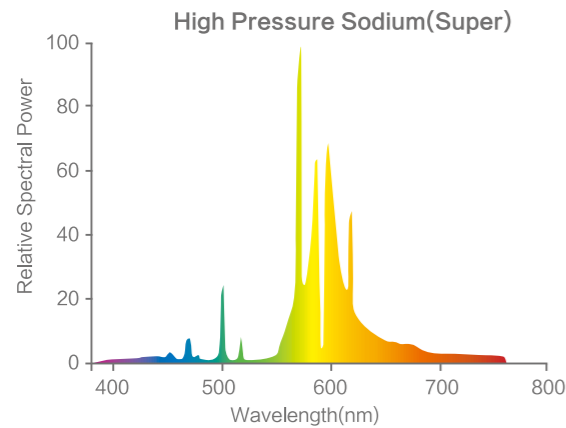
灯泡型号	功率	工作电流	工作电压	灯头型号	直径	全长	色温	显色指数	PAR	PPF	平均寿命
Description	Wattage (W)	Operating Current(A)	Operating Voltage(V)	Base	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	W	u mol/s	AV Life (h)
SON-TD 600W Argo 400V	600	3.30	190	wire	32	325	2000K	20	220	1100	28000
SON-TD1000W Argo 400V	1000	4.00	250	wire	32	325	2000K	20	370	1850	28000



## High Luminous Efficiency Sodium Lamp 高光效钠灯

### 说明 Instructions

- 采用国际领先的低钠汞齐技术，更加绿色环保。
- 光效符合目前欧洲最新 EUP 标准，符合生态设计要求。
- 独特的电弧管设计，使产品启动和再启动时间短，使用寿命长，适宜使用在对照明要求较高，维护成本昂贵的道路，广场等照明领域。
- The luminous efficiency of this line of sodium lamp conforms to the most current EUP Standards, so the sodium light is environmentally friendly.
- The unique arc tube design works to shorten the sodium lamp's start time and restart time and extends its service life.
- The high luminous efficiency sodium lamp is ideal for places where high quality lighting is needed, such as street lighting and square lighting, etc.

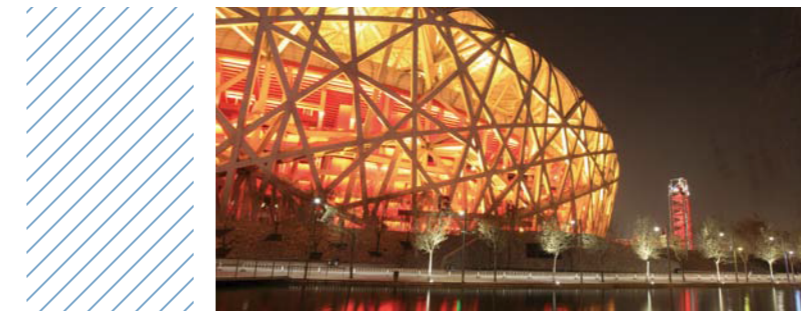


### 技术参数 Technical Parameters

灯泡型号	功率	工作电流	工作电压	灯头型号	直径	全长	色温	显色指数	光通量	平均寿命
Description	Wattage (W)	Operating Current(A)	Operating Voltage(V)	Base	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	LM	AV Life (h)
<b>直管型 Tubular Bulb Type</b>										
SON-T50W Super	50	0.75	90	E27	39	156	2000K	20	4000	28000
SON-T70W Super	70	0.98	98	E27	39	156	2000K	20	6500	28000
SON-T100W Super	100	1.20	105	E40	47	210	2000K	20	10500	32000
SON-T150W Super	150	1.80	100	E40	47	210	2000K	20	17000	32000
SON-T250W Super	250	3.00	96	E40	47	257	2000K	20	33000	32000
SON-T400W Super	400	4.60	100	E40	47	285	2000K	20	55000	32000
SON-T600W Super	600	6.20	110	E40	47	290	2000K	20	90000	32000
SON-T1000W Super	1000	10.30	110	E40	67	400	2000K	20	130000	32000

### 椭圆型 Elliptical Shape

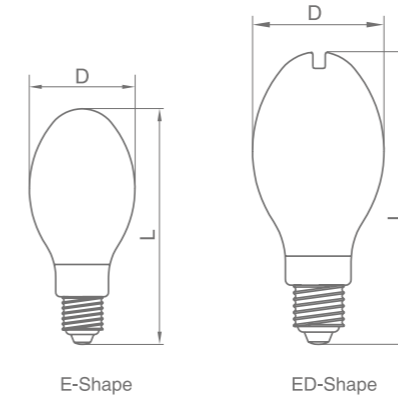
SON-E70W Super	70	0.98	90	E27	70	160	2000K	20	5950	28000
SON-ED100W Super	100	1.20	100	E40	76	185	2000K	20	9500	32000
SON-ED150W Super	150	1.80	100	E40	90	225	2000K	20	16150	32000
SON-ED250W Super	250	3.00	100	E40	90	225	2000K	20	30000	32000
SON-ED400W Super	400	4.60	100	E40	120	290	2000K	20	52000	32000



## High Pressure Sodium Lamp With Inner Ignitor 内触发钠灯

### 说明 Instructions

- 采用国际领先的低钠汞齐技术，更加绿色环保。
- 内触发高压钠灯由于内置的触发功能，无需另接触发器。
- 110W, 220W, 360W 可直接用于汞灯电器，与改造前的照明系统相比，钠灯服务时间更长，光效更高，可广泛用于道路照明，泛光照明，停车场等照明。
- With a built-in ignitor, the high pressure sodium lamp does not require any external ignitor.
- Our 110W, 220W and 360W sodium lamps can be used to replace traditional mercury lamps without any change of gear, and they provide higher luminous efficiency and longer service life. They are widely used for street lighting, flood lighting, parking lot lighting, and so on.

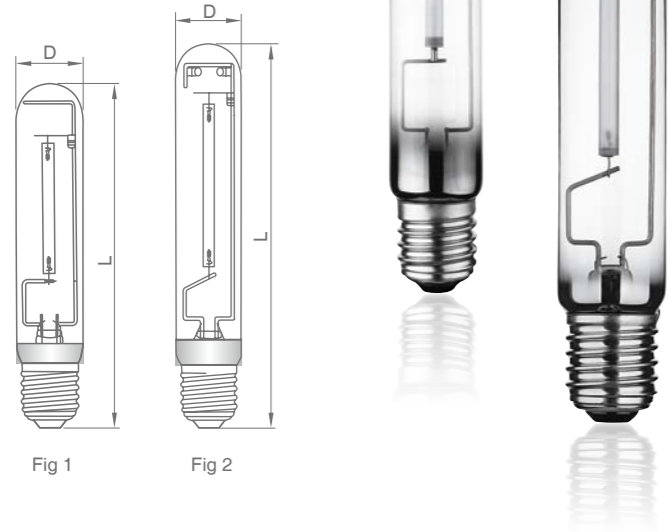


### 技术参数 Technical Parameters

灯泡型号	功率	工作电流	工作电压	灯头型号	直径	全长	色温	显色指数	光通量	平均寿命
Description	Wattage (W)	Operating Current(A)	Operating Voltage(V)	Base	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	LM	AV Life (h)
SON-E70W	70	0.98	90	E27	70	160	2000K	20	5600	9000
<b>替换汞灯用 Plug-In Series ( For Replace Mercury Lamp)</b>										
SON-E110W	110	1.15	115	E27	76	173	2000K	20	10000	9000
SON-ED220W	210	2.15	117	E40	91	225	2000K	20	21000	12000
SON-ED360W	360	3.40	120	E40	120	290	2000K	20	34500	12000



# Standard High Pressure Sodium Lamp 标准型钠灯



## 说明 Instructions

- 高压钠灯具有光效高，寿命长，透雾能力强，不诱虫等特点，广泛应用于道路、机场、码头、船坞、车站、广场、工矿企业等，在使用时应配套欧标电器。
- Our standard high pressure sodium lamps are characterized by high luminous efficiency, long service life and excellent fog-penetration capability. They are extensively used for street lighting and illumination in airports, docks, wharfs, stations, squares, mines, etc,they can work on European magnetic ballast and electronic ballast.

## 技术参数 Technical Parameters

灯泡型号	功率	工作电流	工作电压	灯头型号	直径	全长	色温	显色指数	光通量	平均寿命
Description	Wattage (W)	Operating Current(A)	Operating Voltage(V)	Base	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	LM	AV Life (h)
SON-T70W	70	0.98	90	E27	38	156	2000K	20	5950	15000
SON-T100W	100	1.20	100	E40	48	211	2000K	20	9500	15000
SON-T150W	150	1.80	100	E40	48	211	2000K	20	15300	15000
SON-T250W	250	3.00	100	E40	48	257	2000K	20	27500	15000
SON-T400W	400	4.60	100	E40	48	283	2000K	20	48000	15000
椭圆型系列 Elliptical Shape Bulb Type										
SON-E70W/SG	70	0.98	90	E27	70	160	2000K	20	5600	15000
SON-ED100W/HG	100	1.20	100	E27	76	173	2000K	20	9000	15000
SON-ED150W/HG	150	1.80	100	E40	91	225	2000K	20	15000	15000
SON-ED250W/HG	250	3.00	100	E40	91	225	2000K	20	26500	15000
SON-ED400W/HG	400	4.60	100	E40	120	290	2000K	20	46000	15000

Remark: SG=Soft Glass Bulb, HG=Hard Glass Bulb

灯泡型号	功率	工作电流	工作电压	灯头型号	直径	全长	色温	显色指数	光通量	平均寿命
Description	Wattage (W)	Operating Current(A)	Operating Voltage(V)	Base	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	LM	AV Life (h)
SON-T70W	70	0.98	90	E27	38	156	2000K	20	5950	24000
SON-T100W	100	1.20	100	E40	48	211	2000K	20	9500	24000
SON-T150W	150	1.80	100	E40	48	211	2000K	20	15300	24000
SON-T250W	250	3.00	100	E40	48	257	2000K	20	27500	24000
SON-T400W	400	4.60	100	E40	48	283	2000K	20	48000	24000
SON-T600W	600	5.80	100	E40	48	290	2000K	20	75000	24000
SON-T1000W	1000	10.30	110	E40	67	380	2000K	20	130000	24000
椭圆型系列 Elliptical Shape Bulb Type										
SON-E70W/SG	70	0.98	90	E27	70	160	2000K	20	5600	24000
SON-ED100W/HG	100	1.20	100	E27	76	173	2000K	20	9000	24000
SON-ED150W/HG	150	1.80	100	E40	76	185	2000K	20	15000	24000
SON-ED150W/HG	150	1.80	100	E40	91	225	2000K	20	15000	24000
SON-ED250W/HG	250	3.00	100	E40	91	225	2000K	20	26500	24000
SON-ED400W/HG	400	4.60	100	E40	120	290	2000K	20	46000	24000

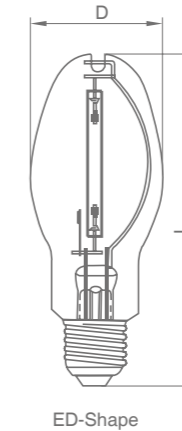
Remark: SG=Soft Glass Bulb, HG=Hard Glass Bulb



# ANSI Standard High Pressure Sodium Lamp 北美标准高压钠灯

## 说明 Instructions

- 高压钠灯具有光效高，寿命长，透雾能力强，不诱虫等特点，广泛应用于道路、机场、码头、船坞、车站、广场、工矿企业等，北美标准高压钠灯在使用时应配套美标电器。
- Our ANSI sodium lamp features high luminous efficiency, long service life, and superior fog-penetration capability. It also does not attract insects. It is popular for application in street lighting and illumination in airports, docks, wharfs, stations, squares, mines, etc,they usually work on CWA ballast and electronic ballast.



## 技术参数 Technical Parameters

灯泡型号	功率	工作电流	工作电压	灯头型号	直径	全长	色温	显色指数	光通量	平均寿命
Description	Wattage (W)	Operating Current(A)	Operating Voltage(V)	Base	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	LM	AV Life (h)
LU-ED50W	50	1.10	52	E26/E27	54	141	2000K	20	3600	24000
LU-ED70W	70	1.60	52	E26/E27	54	141	2000K	20	5600	24000
LU-ED100W	100	2.10	55	E26/E27	54	141	2000K	20	9000	24000
LU-ED100W	100	2.10	55	E39/E40	76	183	2000K	20	9000	24000
LU-ED150W	150	3.20	55	E26/E27	54	146	2000K	20	15000	24000
LU-ED150W	150	3.20	55	E39/E40	76	183	2000K	20	15000	24000
LU-ET250W	250	3.00	100	E39/E40	58	250	2000K	20	27500	24000
LU-ET400W	400	4.60	100	E39/E40	58	250	2000K	20	48000	24000
LU-ET1000W	1000	4.30	263	E39/E40	80	400	2000K	20	130000	24000

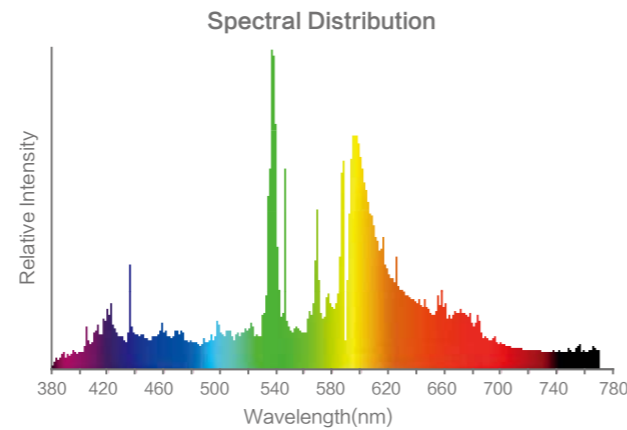
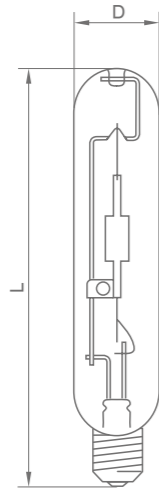


# NCL Ceramic Metal Halide Lamp

## NCL 陶瓷金卤灯

### 说明 Instructions

- NCL 陶瓷金卤灯完美的放电管 / 长度比例, 配光最佳。
- 更长的使用寿命 (20000 小时), 比常规陶瓷金卤灯长 40%。
- 高分辨率的自然光色, 用于道路照明系统时, 提高了行车舒适度和安全感。
- NCL perfect arc tube with premium light distribution
- 20000hrs life span,40% more than normal type
- Natural white light with high RA,create comfort and safety when applied for street lighting.



### 技术参数 Technical Parameters

灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
CDM-T70W/730	70	0.98	PGZ12	19	118	Clear	7400	3000K	70	E	UNIVERSAL	20000
CDM-T70W/730	70	0.98	E27	38	156	Clear	7400	3000K	70	E	HOR±45°	15000
CDM-T150W/730	150	1.80	PGZ12	19	140	Clear	17500	3000K	70	E	UNIVERSAL	15000
CDM-T150W/730	150	1.80	E40	48	250	Clear	17500	3000K	70	E	HOR±45°	15000
CDM-T250W/730	150	3.00	PGZ18	28	170	Clear	30000	3000K	70	E	UNIVERSAL	15000
CDM-T250W/730	250	3.00	E40	48	250	Clear	30000	3000K	70	E	HOR±45°	15000
CDM-400W/730	400	4.60	E40	48	250	Clear	48000	3000K	70	E	HOR±45°	15000

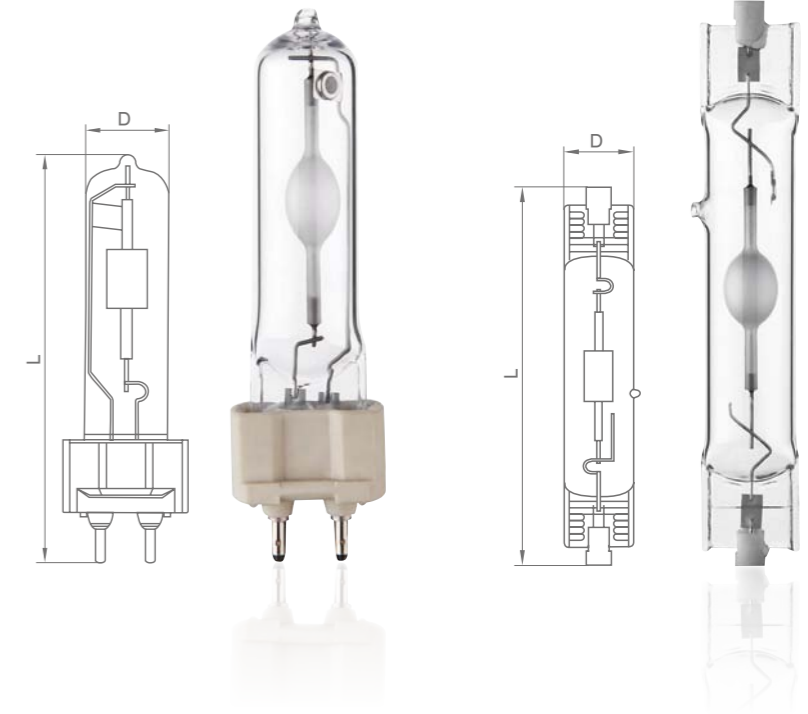


# Ceramic Metal Halide Lamp

## 陶瓷金卤灯

### 说明 Instructions

- 陶瓷金卤灯在整个寿命周期内色温稳定, 漂移小, 是现今性能比较优异、性价比较高的新型光源之一, 该种光源能应用于几乎所有场合, 特别适合于橱窗, 展示柜等对显色性要求较高的场合。
- Ceramic Metal Halide (CDM) lamp own high colour consistency during whole service life,besides they have excellent colour rendering and luminous maintenance,it is one of the high performance relatively new source of light nowadays,it can be applied in almost all occasions, and make a great contribution in energy saving field and built pleasant luminous environment.



### 技术参数 Technical Parameters

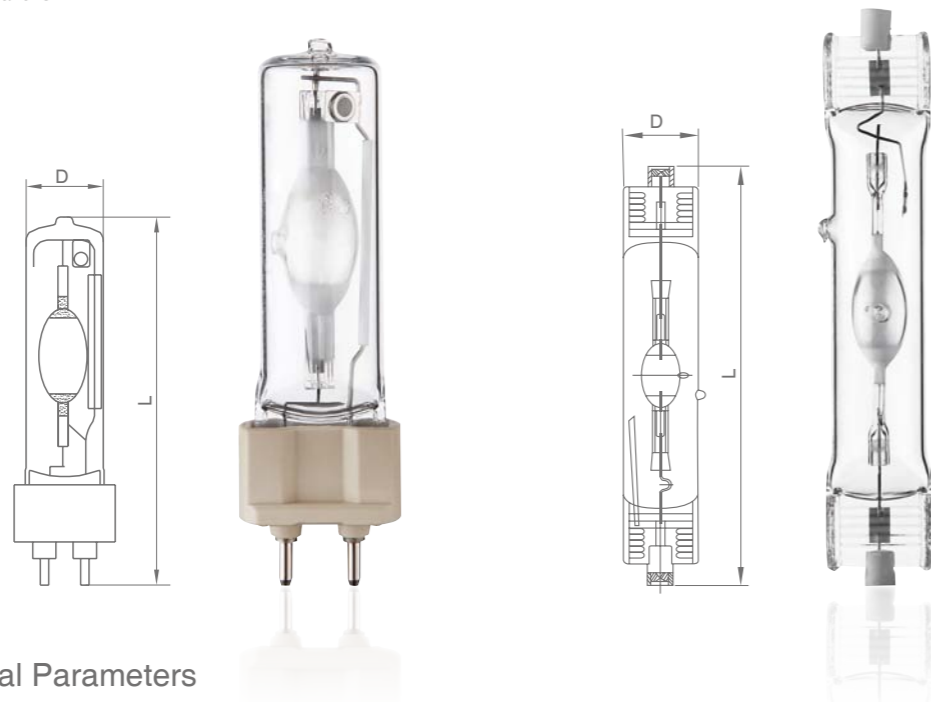
灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
<b>单端 Single Ended Compact Lamps</b>												
CDM-TS35/UVS/U/830	35	0.53	G8.5	15	85	Clear	3300	3000K	80	E	Universal	12000
CDM-TS35/UVS/U/942	35	0.53	G8.5	15	85	Clear	3300	4200K	90	E	Universal	12000
CDM-TS35/UVS/U/830	35	0.53	G12	20	100	Clear	3300	3000K	80	E	Universal	12000
CDM-TS35/UVS/U/942	35	0.53	G12	20	100	Clear	3300	4200K	90	E	Universal	12000
CDM-TS70/UVS/U/830	70	0.98	G12	20	100	Clear	6500	3000K	80	E	Universal	15000
CDM-TS70/UVS/U/942	70	0.98	G12	20	100	Clear	6500	4200K	90	E	Universal	15000
CDM-TS150/UVS/U/830	150	1.80	G12	20	110	Clear	13000	3000K	80	E	Universal	15000
CDM-TS150/UVS/U/942	150	1.80	G12	20	110	Clear	13000	4200K	90	E	Universal	15000
<b>双端 Double Ended</b>												
CDM-TD35W/830	35	0.53	R7S	20	118	Clear	3300	3000K	80	E	HOR±45°	12000
CDM-TD35W/942	35	0.53	R7S	20	118	Clear	3300	4200K	90	E	HOR±45°	12000
CDM-TD70W/830	70	0.98	R7S	20	118	Clear	6500	3000K	80	E	HOR±45°	15000
CDM-TD70W/942	70	0.98	R7S	20	118	Clear	6500	4200K	90	E	HOR±45°	15000
CDM-TD150W/830	150	1.80	R7S	24	138	Clear	13000	3000K	80	E	HOR±45°	15000
CDM-TD150W/942	150	1.80	R7S	24	138	Clear	13000	4200K	90	E	HOR±45°	15000



## Double Ended & G12 Lamp 单双端金卤灯

### 说明 Instructions

- 单双端金卤灯结构紧凑，设计小巧，这类灯具被用于广域照明和体育场所和商业照明上。
- Double Ended and G12 Lamps have compact configuration which provides excellent optical control in smaller fixture designs. These style lamps are usually used for shop windows, Museums and Galleries, floodlighting and sports lighting applications.



### 技术参数 Technical Parameters

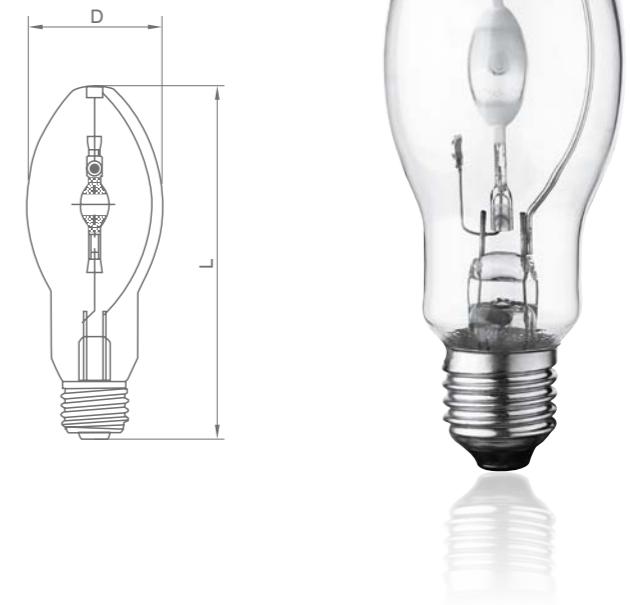
灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
<b>双端 Double Ended</b>												
MH-TD70W/UVS/3K	70	0.98	R7S	21	118	Clear	5600	3000K	65	E	HOR±45°	10000
MH-TD70W/UVS/4K	70	0.98	R7S	21	118	Clear	5600	4200K	65	E	HOR±45°	10000
MH-TD70W/UVS/6K	70	0.98	R7S	21	118	Clear	4800	6000K	65	E	HOR±45°	10000
MH-TD150W/UVS/3K	150	1.80	R7S	24	138	Clear	12500	3000K	65	E	HOR±45°	10000
MH-TD150W/UVS/4K	150	1.80	R7S	24	138	Clear	12500	4200K	65	E	HOR±45°	10000
MH-TD150W/UVS/6K	150	1.80	R7S	24	138	Clear	10000	6000K	65	E	HOR±45°	10000
MH-TD250W/UVS/6K	250	2.15	FC2	26	163	Clear	16000	6000K	65	E	HOR±45°	10000
MH-TD400W/UVS/6K	400	3.25	FC2	31	203	Clear	25000	6000K	65	E	HOR±45°	10000
<b>单端 Single Ended Compact Lamps</b>												
MH-TS70W/G12/UVS/4K	70	0.98	G12	24	90	Clear	5600	4200K	65	E	Universal	10000
MH-TS70W/G12/UVS/6K	70	0.98	G12	24	90	Clear	4800	6000K	65	E	Universal	10000
MH-TS150W/G12/UVS/4K	150	1.80	G12	24	100	Clear	12500	4200K	65	E	Universal	10000
MH-TS150W/G12/UVS/6K	150	1.80	G12	24	100	Clear	10000	6000K	65	E	Universal	10000



## UPS Metal Halide Lamp UPS 脉冲金卤灯

### 说明 Instructions

- UPS 金卤灯与传统脉冲金卤灯相比能提供更高效的光输出，色温一致性更好，再启动时间短，寿命更长。
- Uni-Form pulse start lamps provide higher lumen output and more maintained light over time compared to normal pulse start Metal Halide Lamp. Moreover Uni-form Pulse start lamps have excellent colour uniformity, faster warm-up time, and more longer service life.



### 技术参数 Technical Parameters

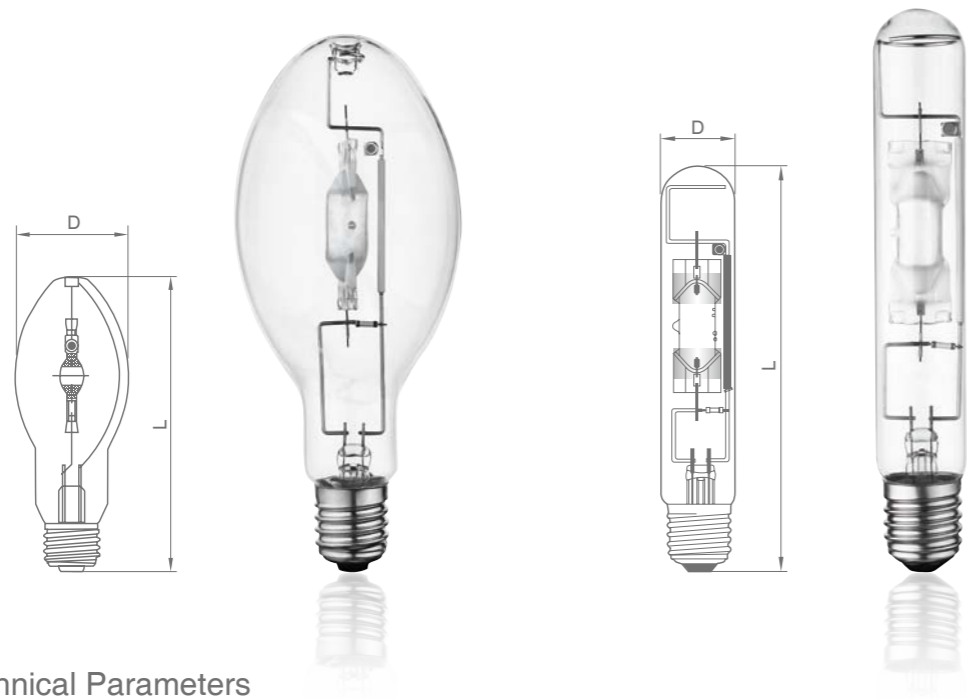
灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
MH-T70W/CL/UPS/4K	70	0.98	E27	38	156	Clear	5600	4200K	65	E	Universal	10000
MH-T70W/CL/UPS/6K	70	0.98	E27	38	156	Clear	3800	6000K	65	E	Universal	10000
MH-T150W/CL/UPS/4K	150	1.80	E27	38	180	Clear	12500	4200K	65	E	Universal	10000
MH-T150W/CL/UPS/4K	150	1.80	E40	48	211	Clear	12000	4200K	65	E	Universal	10000
MH-T150W/CL/UPS/6K	150	1.80	E27	38	180	Clear	10000	6000K	65	E	Universal	10000
<b>椭圆型系列 Elliptical Shape Bulb Type</b>												
MH70W/U/CL/UPS/3K	70	0.98	E26/E27	54	141	Clear	5300	3200K	65	E	Universal	10000
MH70W/U/CL/UPS/4K	70	0.98	E26/E27	54	141	Clear	5300	4200K	65	E	Universal	10000
MH70W/U/CL/UPS/6K	70	0.98	E26/E27	54	141	Clear	3800	6000K	70	E	Universal	10000
MH100W/U/CL/UPS/4K	100	1.20	E26/E27	54	141	Clear	8500	4200K	65	E	Universal	10000
MH150W/U/CL/UPS/3K	150	1.80	E26/E27	54	141	Clear	12500	3200K	65	E	Universal	10000
MH150W/U/CL/UPS/4K	150	1.80	E26/E27	54	141	Clear	12500	4200K	65	E	Universal	10000
MH150W/U/CL/UPS/6K	150	1.80	E26/E27	54	141	Clear	10000	6000K	70	E	Universal	10000



## Pulse Start Metal Halide Lamp 脉冲启动金卤灯

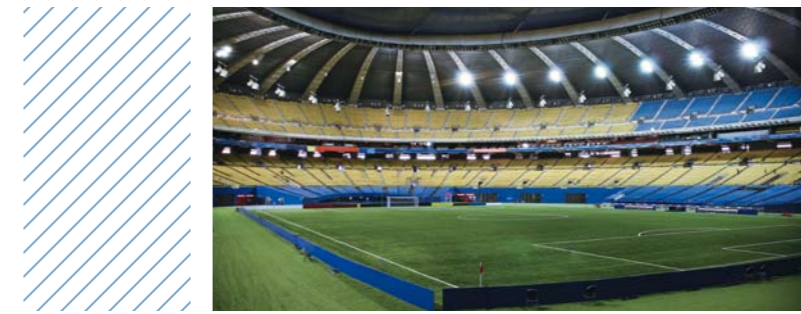
### 说明 Instructions

- 脉冲启动金卤灯一般多配套电感镇流器使用，与标准金卤灯相比性能更加优越，能提供更高的光效，更佳的光效，更快的启动和更长的寿命，有汞灯系统和钠灯系统两种电流可供选择。
- Pulse Start Lamps provide superior performance compared to standard Metal Halide Lamps, Besides they can offer higher efficiency, better color, faster warm up, and longer life. These lamp are ideal for interior and exterior flood lighting, such as storage areas, sport fields, streets and parks etc.



### 技术参数 Technical Parameters

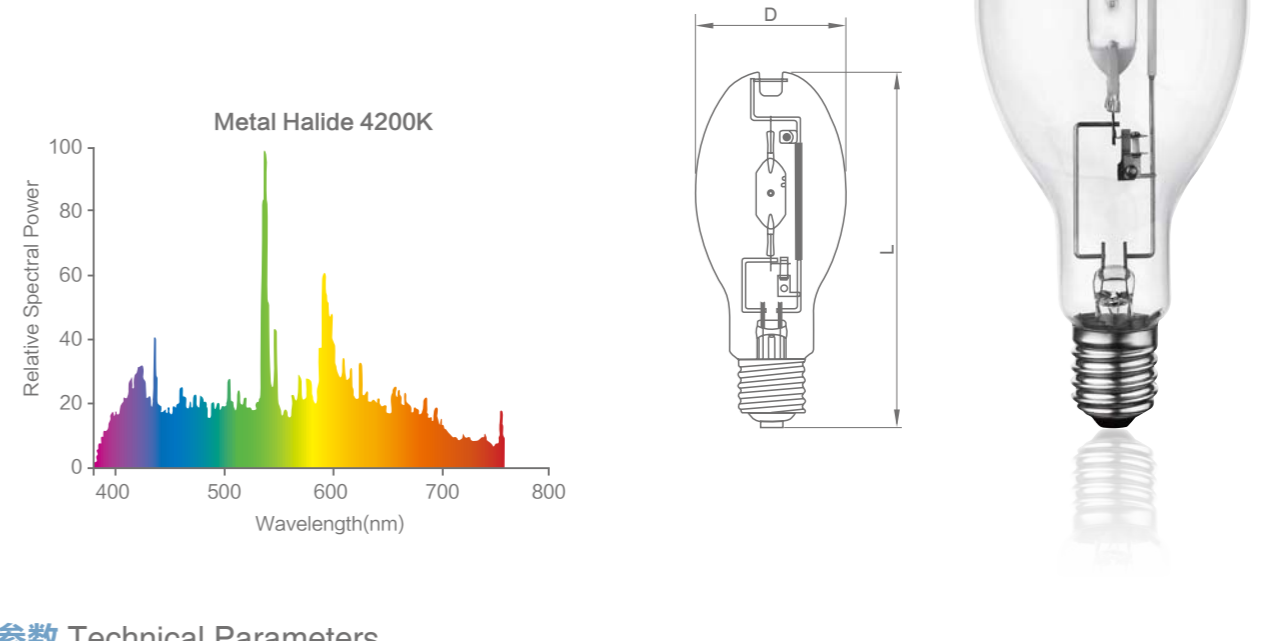
灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
MH-T250W/CL/HOR/PS/6K	250	2.15	E40	48	257	Clear	16000	4200K	65	E	HOR±45°	10000
MH-T250W/CL/HOR/PS/6K	250	3.00	E40	48	257	Clear	16000	4200K	65	E	HOR±45°	10000
MH-T400W/CL/HOR/PS/4K	400	3.25	E40	48	283	Clear	34000	4200K	65	E	HOR±45°	10000
MH-T400W/CL/HOR/PS/6K	400	3.25	E40	65	283	Clear	27000	6000K	65	E	HOR±45°	10000
MH-T400W/CL/HOR/PS/6K	400	4.00	E40	65	283	Clear	27000	6000K	65	E	HOR±45°	10000
MH-T600W/CL/HOR/PS/6K	600	5.80	E40	65	283	Clear	50000	6000K	65	E	HOR±45°	10000
椭圆型系列 Elliptical Shape Bulb Type												
MH-ED250W/CL/BU/PS/4K	250	2.15	E40	90	225	Clear	18000	4200K	65	E	BU±15°	10000
MH-ED250W/CL/BU/PS/6K	250	2.15	E40	90	225	Clear	15000	6000K	65	E	BU±15°	10000
MH-ED400W/CL/BU/PS/4K	400	3.25	E40	120	290	Clear	32000	4200K	65	E	BU±15°	10000
MH-ED400W/CL/BU/PS/6K	400	3.25	E40	120	290	Clear	25000	6000K	65	E	BU±15°	10000



## Probe Start Metal Halide Lamp 标准金卤灯

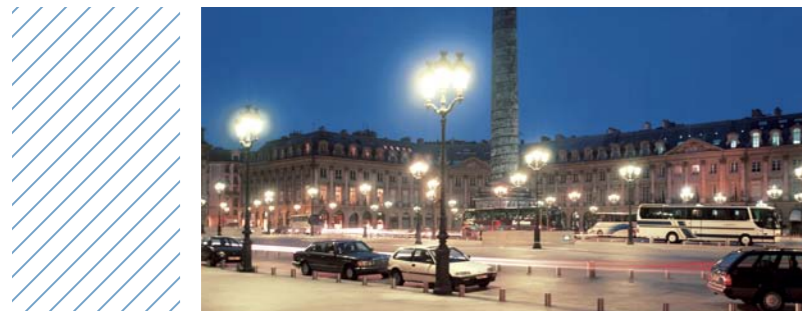
### 说明 Instructions

- 标准金卤灯既能与欧标电感镇流器配套使用，又能用于CWA镇流器配套线路，广泛应用于体育场馆、展览中心、大型商场、工业厂房、街道广场、车站、码头等场所的室内照明。
- Probe Start Metal Halide Lamps can both match Europe standard magnetic ballast and America standard CWA ballast. It is widely used in sports center, exhibition, super market, warehouse, square, station and wharf etc.



### 技术参数 Technical Parameters

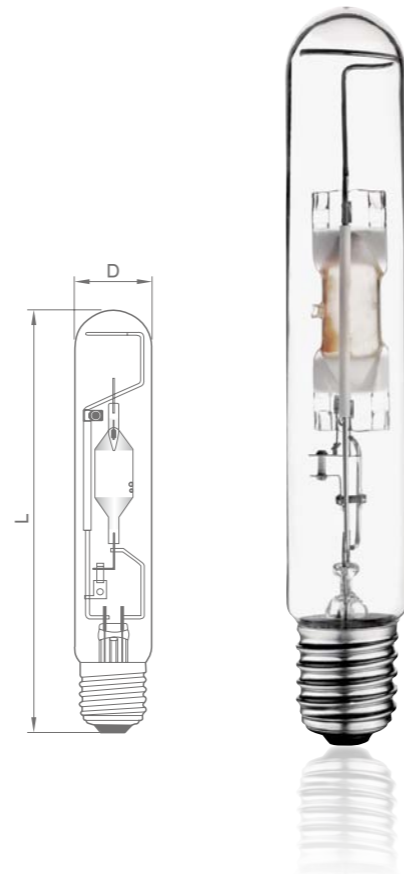
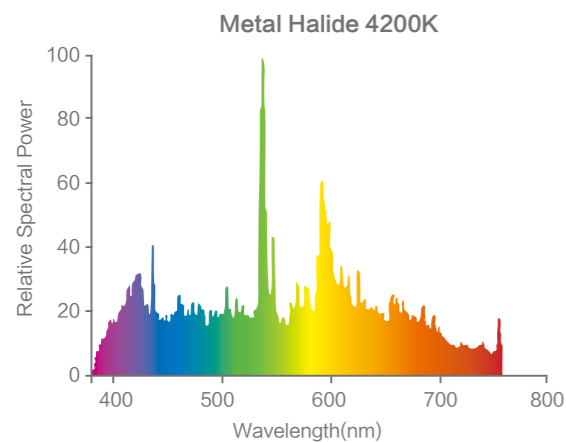
灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
MH-T175W/PRO-START/4K	175	1.50	E40	48	257	Clear	14000	4200K	65	E	HOR±45°	10000
MH-T250W/PRO-START/4K	250	2.15	E40	48	257	Clear	20500	4200K	65	E	HOR±45°	10000
MH-T250W/PRO-START/6K	250	2.15	E40	48	257	Clear	16000	6000K	65	E	HOR±45°	10000
MH-T400W/PRO-START/4K	400	3.25	E40	48	283	Clear	34000	4200K	65	E	HOR±45°	10000
MH-T400W/PRO-START/4K	400	3.25	E40	65	283	Clear	34000	4200K	65	E	HOR±45°	10000
椭圆型系列 Elliptical Shape Bulb Type												
MH-ED175W/PRO-START/4K	175	1.50	E39/E40	55	141	Clear	14000	4200K	65	E	BU±15°	10000
MH-ED175W/PRO-START/4K	175	1.50	E39/E40	90	225	Clear	13500	4200K	65	E	BU±15°	10000
MH-ED250W/PRO-START/4K	250	2.15	E39/E40	90	225	Clear	18000	4200K	65	E	BU±15°	10000
MH-ED400W/PRO-START/4K	400	3.25	E39/E40	90	225	Clear	32000	4200K	65	E	BU±15°	10000
MH-ED400W/PRO-START/4K	400	3.25	E39/E40	120	290	Clear	32000	4200K	65	E	BU±15°	10000



# HPI Metal Halide Lamp 金属卤化物灯

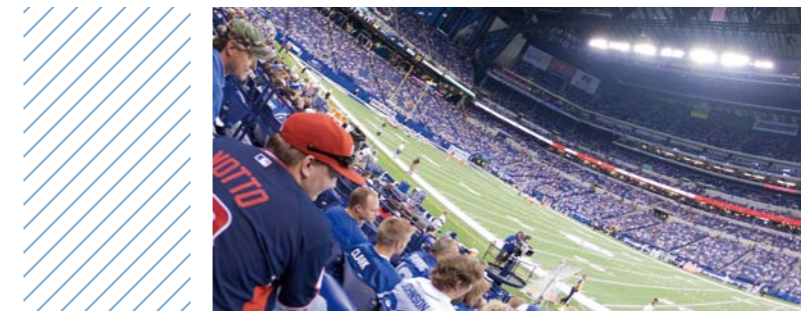
## 说明 Instructions

- 低触发电压设计，具有更好的启动性能。
- 应用于展览厅、庭院和广场照明等。
- Lower ignition voltage with 0.75-1.0KV, with better strike performance.
- Be fit for exhibition, yard and square lighting etc.



## 技术参数 Technical Parameters

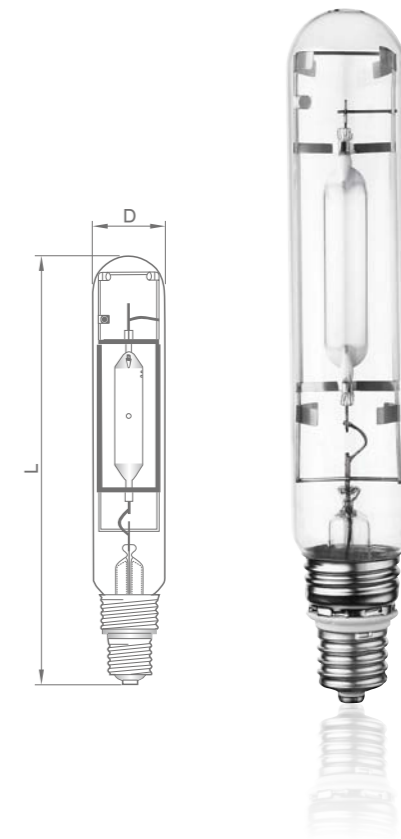
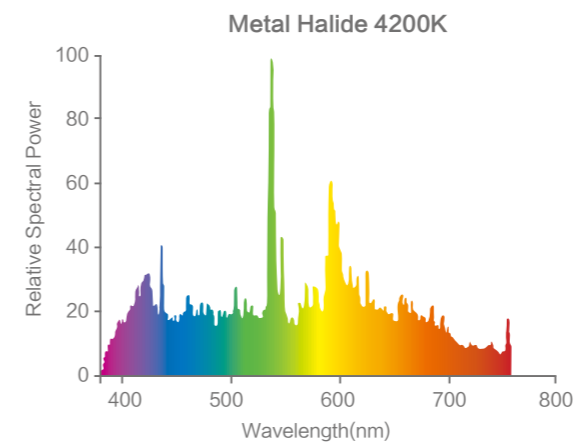
灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
HPI-T250W/HOR/4K 0.75KV	250	2.15	E40	48	257	Clear	19000	4200K	65	E	HOR±45°	10000
HPI-T250W/HOR/5K 0.75KV	250	2.15	E40	48	257	Clear	18000	5000K	65	E	HOR±45°	10000
HPI-T400W/HOR/4K 0.75KV	400	3.25	E40	65	283	Clear	32000	4200K	65	E	HOR±45°	10000
HPI-T400W/HOR/5K 0.75KV	400	3.25	E40	48	283	Clear	26000	5000K	65	E	HOR±45°	10000
椭圆型系列 Elliptical Shape Bulb Type												
HPI-ED250W/BU/3.8 0.75KV	250	2.15	E40	90	225	Clear	16000	3800K	65	E	BU±15°	10000
HPI-ED400W/BU/3.8K 0.75KV	400	3.25	E40	90	225	Clear	28000	3800K	65	E	BU±15°	10000



# High Wattage/Spot Lighting Lamp 大功率金卤灯

## 说明 Instructions

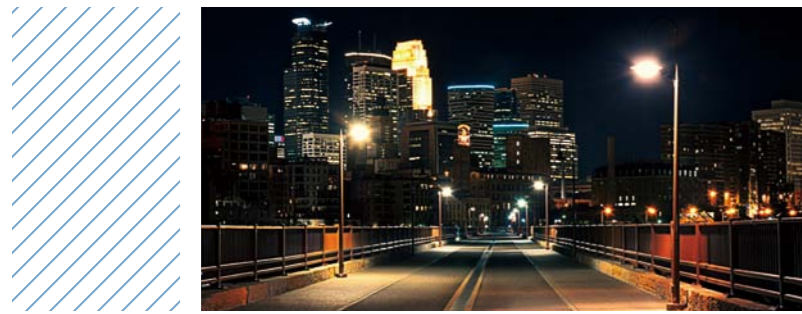
- 高光通量输出，显色性好，主要用于大型室内外体育馆、展览厅和用作捕鱼等用途。
- High lumen output, and excellent colour rendering. It is widely use in stadium, exhibition and fishing etc.



## 技术参数 Technical Parameters

灯泡型号	功率	工作电流	灯头型号	灯壳直径	全长	有无涂层	光通量	色温	显色指数	安装要求	燃点位置	平均寿命
Description	Wattage (W)	Operating Current(A)	Base	Bulb Dia. (mm)	Max. Length	Bulb Finish	Luminous Flux(lm)	CTT	CRI (RAV)	Fix Req	Buring Position	AV Life (h)
MH-T1000W/PS/4K	1000	8.25	E40	65	400	Clear	105000	4200K	65	E	HOR±45°	5000
MH-T1000W/PS/6K	1000	8.25	E40	65	400	Clear	75000	6000K	65	E	HOR±45°	5000
MH-TT1500W/PS/4K	1500	6.2	E40	100	430	Clear	160000	4200K	65	E	HOR±45°	5000
MH-TT2000W/PRO-START/4K	2000	8.8	E40	100	430	Clear	220000	4200K	65	E	HOR±45°	3000
MH-TT2000W/PS/6K	2000	16.5	E40	100	430	Clear	180000	6000K	65	E	HOR±45°	3000
MH-TT2000W/PS/4K 380V	2000	9.5	E40	100	430	Clear	220000	4200K	65	E	HOR±45°	3000
椭圆型系列 Elliptical Shape Bulb Type												
MH-BT1000WCL/BU/PS/4K	1000	8.25	E39/E40	180	382	Clear	105000	4200K	65	E	BU±15°	5000
MH-BT1000WCL/BU/PS/6K	1000	8.25	E39/E40	180	382	Clear	70000	6000K	65	E	BU±15°	5000
MH-BT1500WCL/4K	1500	6.2	E39/E40	180	382	Clear	150000	4200K	65	E	BU±15°	3000
MH-BT2000WCL/4K	2000	16.5	E39/E40	180	382	Clear	220000	4200K	65	E	BU±15°	3000

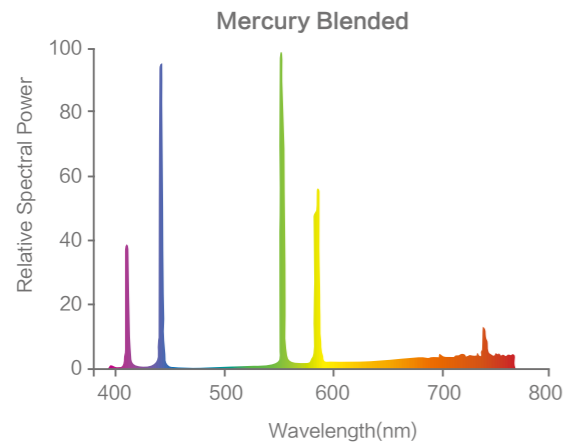




## Blended Light Mercury Lamp 自镇流高压汞灯

### 说明 Instructions

- 自镇流高压汞灯与外镇流汞灯相比,显色性更好,安装更方便,可直接替代普通白炽灯使用而无需镇流器,通常用于仓库,厂房等照明。
- As compared with ballast mercury lamps, the blended light high pressure mercury lamp provides the advantages of a high color rendering index and easy installation. Without the need for ballast, it can be used to replace traditional incandescent lamps and is ideal for workshop lighting, warehouse lighting, and more.



### 技术参数 Technical Parameters

灯泡型号	功率	灯头型号	电源电压	工作电流	光通量	直径	全长	色温	显色指数	平均寿命
Description	Wattage (W)	Cap	Supply Voltage(V)	Operating Current(A)	LM	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	AV Life (h)
椭圆型系列 Elliptical Shape Bulb Type										
GYZ160W/SG	160	E26/E27	110-130	1.52	2500	76	173	3300K	50	5000
GYZ250W/SG	250	E26/E27	110-130	2.08	4600	91	220	3300K	50	5000
GYZ250W/SG	250	E39/E40	110-130	2.08	4600	91	225	3300K	50	5000
GYZ160W/SG	160	E27	220-240	0.75	3100	76	173	3300K	50	5000
GYZ250W/SG	250	E27	220-240	1.20	5600	91	220	3300K	50	5000
GYZ250W/HG	250	E40	220-240	1.20	5600	91	225	3300K	50	8000
GYZ500W/HG	500	E40	220-240	2.45	12000	120	290	3300K	50	8000
GYZ1000W/HG	1000	E40	220-240	7.50	52500	182	396	3300K	50	5000

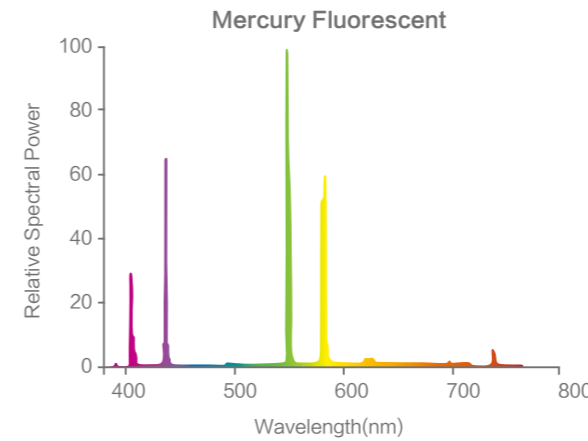
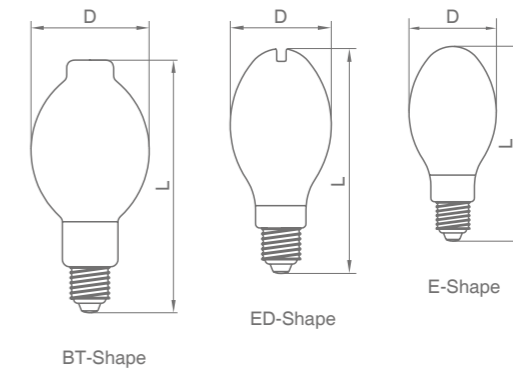
Remark: 1) SG=Soft Glass Bulb, HG=Hard Glass Bulb  
2) Both clear and coat finished bulb are available.



## High Pressure Mercury Lamp 外镇流高压汞灯

### 说明 Instructions

- 外镇流高压汞灯通常在玻壳内壁涂有荧光粉以改善灯的显色性,它具有维护成本低、寿命长等特点。
- 在一些亚非拉地区仍被作为主要的光源之一,应用于工业照明、仓库照明、街道照明、泛光照明安全照明等。
- Fluorescent powder coats the inner wall of our high pressure mercury lamps, which improves their color rendering properties. The high pressure mercury lamp has low maintenance cost and long service life.
- It is an economical lighting solution for industrial lighting, warehousing lighting, street lighting, flood lighting, security lighting, and so on, in Asia, Africa and Latin America.



### 技术参数 Technical Parameters

灯泡型号	功率	灯头型号	工作电流	工作电压	光通量	直径	全长	色温	显色指数	平均寿命
Description	Wattage (W)	Cap	Operating Current(A)	Operating Voltage(V)	LM	Max. Diameter(D)	Max. Length(L)	CTT (K)	CRI (RAV)	AV Life (h)
椭圆型系列 Elliptical Shape Bulb Type										
GGY80W/SG	80	E27/B22	0.80	115	3800	70	160	4000K	40	8000
GGY125W/SG	125	E27/B22	1.15	125	6200	76	173	4000K	40	8000
GGY175W/HG	175	E39/E40	1.50	130	7350	91	225	4000K	40	10000
GGY250W/SG	250	E39/E40	2.13	130	12100	91	225	4000K	40	10000
GGY250W/HG	250	E39/E40	2.13	130	12100	91	225	4000K	40	10000
GGY400W/HG	400	E39/E40	3.25	130	22000	120	290	4000K	40	10000
GGY1000W/HG	1000	E40	7.50	145	52500	182	396	4000K	40	10000

Remark: 1) SG=Soft Glass Bulb, HG=Hard Glass Bulb  
2) Both clear and coat finished bulb are available.

# HID LAMP INFORMATION

## High Intensity Discharge Lamp Life

### Average Rated Life

Average Rated Life is the value assigned to a particular lamp type. It is a numeric value in hours of the median (50% point) of a population of lamps that remain operating. For example, if a lamp has an average rated life of 24,000 hours and 100 new lamps are installed in the same location, approximately 50 lamps would still be operating after 24,000 hours.

There are many factors that can affect HID lamp life, one key factor is operating position. Position-oriented lamps (designed to operate in one specific position) are tested and rated based on that designated position. Operating these lamps in any other positions can dramatically shorten life.

Another important factor can affect lamp life is shorter operating cycles, at operating cycles shorter than 10 hours per start will shorten as follows:

5 hrs/start operating cycle may result in achieving only 75% of the published average rated life.

2.5 hrs/start operating cycle may result in achieving only 50% of the published average rated life.

### Besides there are other factors that can also reduce lamp life include:

- Type of ballast used
- Lamp luminaire temperatures
- Lamp physically damaged
- Age and condition of the capacitor

### Economic Life

Economic life refers to the hours of operation during which a lamp is designed to provide optimum light output and color quality as well as lowest replacement cost. Economic life describes actual lamp life better than rated life because rated life does not account for the lumen depreciation and color shift that occur as lamps age. The economic life of lamps is generally 60% to 75% of the lamp rated life. Though economic life is important when considering a lighting system, lamp data tables show rated life because they provide a comparison with other lamp manufacturers' ratings.

## Lamp Operating Positions

Lamps must be operated in their specified operating positions in order to maximize lamp performance and life. Incorrect operating positions may also create the possibility of a lamp rupture. Because of these factors it is imperative that users adhere to the specified operating positions and fixture requirements. The following chart shows the correct lamp operating positions based on the Position Code Letters which are contained in the lamp description.

### FIXTURE REQUIREMENT CODES

O = Open fixture permissible. Lamps can be operated in an open fixture within the lamp's specified operating position limits.

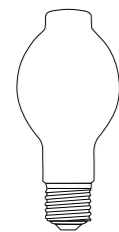
S = Open fixture permissible with operating position restrictions.

E = Enclosed fixture required. Lamps must be operated in an enclosed fixture.

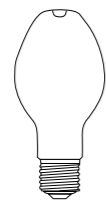
### LAMP OPERATING POSITION CODES AND SYMBOLS

U or no code	BU	BUD	BUD ±60	BUH	HOR	HOR ±30	HOR ±45	HOR ±60
Universal (no limit)	Base Up ±15°	Vertical ±15° Base Up or Base Down	Base Up or Base Down ±60	Base Up to Horizontal	Horizontal ±15°	Horizontal ±30°	Horizontal ±45°	Horizontal ±60°

## Bulb Shapes



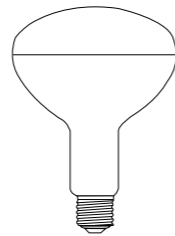
Blown Tubular (BT)



Elliptical (E), (ED)



Elliptical Tubular (ET)



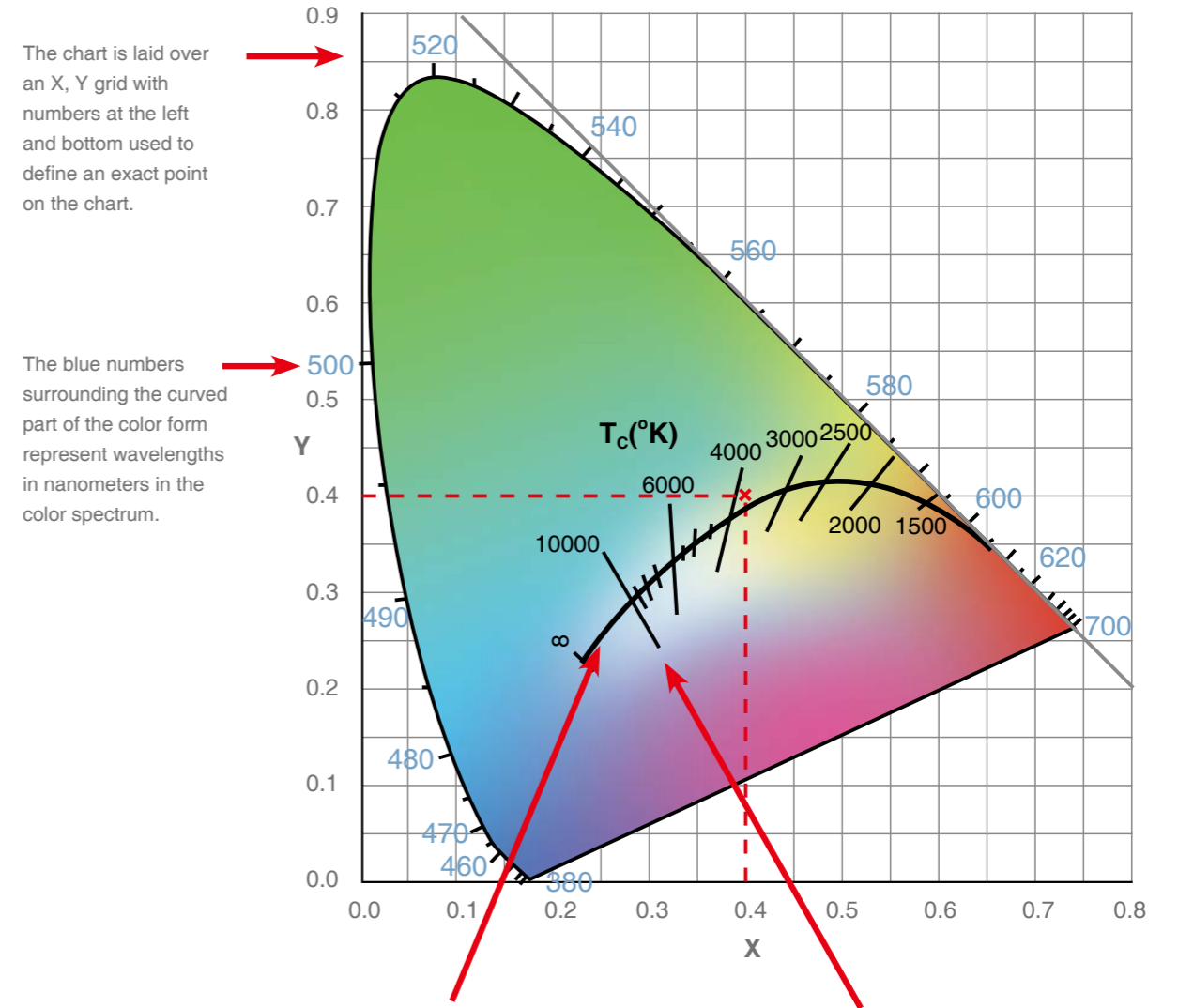
Reflector (R)



Tubular (T)

# HID LAMP INFORMATION

There are a number of color combinations that can be used to create White Light, or a particular Color Temperature. The Chromaticity Chart is used to qualify the color of the light that is produced by a lamp. This is called a lamp's Color Temperature. This can be seen on the Chromaticity chart. Color temperature is specified in degrees Kelvin (°K)\*.





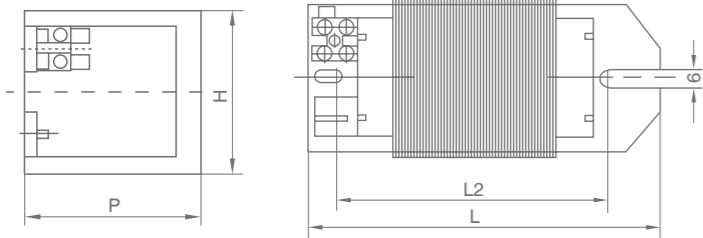
# Magnetic Ballast

## 电感镇流器



### 说明 Instructions

- 适合安装于灯具内
- 采用真空注漆技术
- 最高线圈温度 TW=130
- 符合 EN61347 安全和 EN60927 性能标准
- 防护等级 I
- Be fit for install in luminaires.
- Impregnated in poliester resin at high vacuum.
- Rated winding temperature Tw=130.
- Meet EN61347 safety and EN60927 performance standard.
- Protection class I



### 技术参数 Technical Parameters

汞灯和金卤灯用镇流器 (50W To 400W) Ballast for Mercury lamp and Metal Halide lamp 50W to 400W									
型号	光源功率	电源电压/频率	功率因数	镇流器尺寸				温升	并联电容
Description	Lamp Watt (W)	Supply Voltage / Frequency	Power Factor	Dimension Size (mm)				Temp Rise	Parallel Capacitor uF 250V
				L	L2	P	H		
HM50-V	50	220-240V/50-60Hz	0.44	112	95	66	52	60	7
HM80-V	80	220-240V/50-60Hz	0.51	112	95	66	52	60	8
HM125-V	125	220-240V/50-60Hz	0.53	112	95	66	52	65	10
HM/MH175-V	175	220-240V/50-60Hz	0.55	144	120	66	52	70	12
HM/HM250-V	250	220-240V/50-60Hz	0.55	144	120	66	52	70	18
HM/HM400-V	400	220-240V/50-60Hz	0.56	180	155	66	52	70	28

钠灯和金卤灯用镇流器 (50W To 400W) Ballast for Sodium lamp and Metal Halide lamp 50W to 400W									
型号	光源功率	电源电压/频率	功率因数	镇流器尺寸				温升	并联电容
Description	Lamp Watt (W)	Supply Voltage / Frequency	Power Factor	Dimension Size (mm)				Temp Rise	Parallel Capacitor uF 250V
				L	L2	P	H		
MH/HPS50-V	50	220-240V/50-60Hz	0.37	112	95	66	52	65	8
MH/HPS70-V	70	220-240V/50-60Hz	0.38	112	95	66	52	70	12
MH/HPS100-V	100	220-240V/50-60Hz	0.42	112	95	66	52	70	13
MH/HPS150-V	150	220-240V/50-60Hz	0.40	144	120	66	52	70	18
MH/HPS250-V	250	220-240V/50-60Hz	0.40	180	155	66	52	75	32
MH/HPS400-V	400	220-240V/50-60Hz	0.42	216	195	66	52	80	50



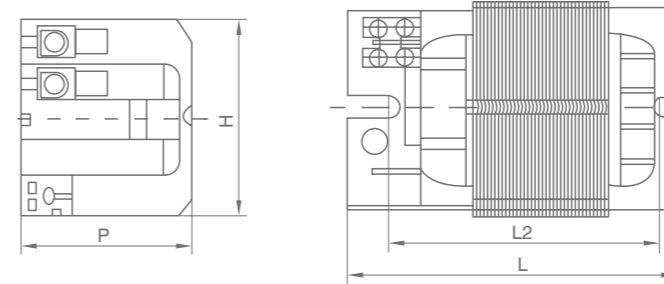
# Magnetic Ballast

## 电感镇流器



### 说明 Instructions

- 适合安装于灯具内
- 采用真空注漆技术
- 最高线圈温度 TW=130
- 符合 EN61347 安全和 EN60927 性能标准
- 防护等级 I
- Be fit for install in luminaires.
- Impregnated in poliester resin at high vacuum.
- Rated winding temperature Tw=130.
- Meet EN61347 safety and EN60927 performance standard.
- Protection class I



### 技术参数 Technical Parameters

汞灯和金卤灯用镇流器 (50W To 400W) Ballast for Mercury lamp and Metal Halide lamp 50W to 400W									
型号	光源功率	电源电压/频率	功率因数	镇流器尺寸				温升	并联电容
Description	Lamp Watt (W)	Supply Voltage / Frequency	Power Factor	Dimension Size (mm)				Temp Rise	Parallel Capacitor uF 250V
				L	L2	P	H		
MH/HPS50-P	50	220-240V/50-60Hz	0.44	117	102	60	52	60	7
HM80-P	80	220-240V/50-60Hz	0.51	117	102	60	52	60	8
HM125-P	125	220-240V/50-60Hz	0.53	117	102	60	52	65	10
HM/MH175-P	175	220-240V/50-60Hz	0.55	125	108	75	65	70	12
HM/HM250-P	250	220-240V/50-60Hz	0.55	125	108	75	65	70	18
HM/HM400-P	400	220-240V/50-60Hz	0.56	150	130	75	65	70	28

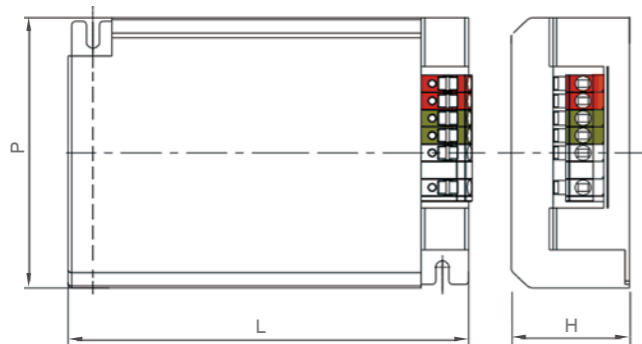
钠灯和金卤灯用镇流器 (50W To 400W) Ballast for Sodium lamp and Metal Halide lamp 50W to 400W									
型号	光源功率	电源电压/频率	功率因数	镇流器尺寸				温升	并联电容
Description	Lamp Watt (W)	Supply Voltage / Frequency	Power Factor	Dimension Size (mm)				Temp Rise	Parallel Capacitor uF 250V
				L	L2	P	H		
MH/HPS50-P	50	220-240V/50-60Hz	0.37	117	102	60	52	65	8
MH/HPS70-P	70	220-240V/50-60Hz	0.38	117	102	60	52	70	12
MH/HPS100-P	100	220-240V/50-60Hz	0.42	117	102	60	52	70	13
MH/HPS150-P	150	220-240V/50-60Hz	0.40	125	108	75	65	70	18
MH/HPS250-P	250	220-240V/50-60Hz	0.40	150	130	75	65	75	32
MH/HPS400-P	400	220-240V/50-60Hz	0.42	185	160	75	65	80	50
MH/HPS600-P	600	220-240V/50-60Hz	0.45	190	170	100	82	80	65



# Electronic Ballast 电子镇流器

## 说明 Instructions

- 低功耗、低温升、低噪声，长寿命。
- 对提高灯的光效，减小光衰，延长灯的使用寿命具有显著意义。
- 总体重量较传统电感镇流器大幅度减轻，节省了对铜、钢等资源的消耗。
- 安装便捷，无需外置触发器和电容。
- Low power consumption, low temperature rise, low noise, long life.
- There is the remarkable significance to improve luminous efficiency, reduce light decline, extend life time of lamp.
- Compare with traditional magnetic ballast, the weight decline a lot, that's save the resource consumption like copper, steel etc.
- Easy to install, no need external ignitor and capacitor.



## 技术参数 Technical Parameters

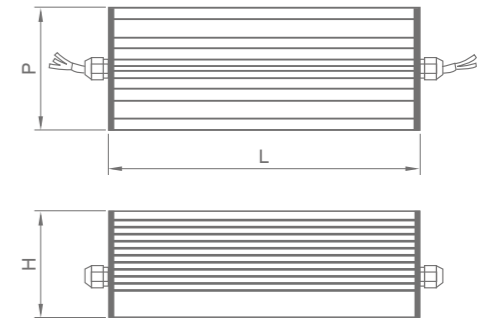
金卤灯电子镇流器 Electronic Ballast For Metal Halide Lamp								
型号	光源功率	电源电压/频率	功率因数	输入电流	输入功率	镇流器尺寸		
Description	Lamp Watt (W)	Supply Voltage / Frequency	Power Factor	Input Current (A)	Input Power (W)	Dimension Size (mm)		
						L	P	H
MH35-EB	35	220-240V/50-60Hz	0.95	0.18	39	110	78	33
MH70-EB	70	220-240V/50-60Hz	0.95	0.35	78	110	78	33
MH100-EB	100	220-240V/50-60Hz	0.95	0.50	110	155	87	40
MH150-EB	150	220-240V/50-60Hz	0.95	0.74	163	155	87	40



# Electronic Ballast 电子镇流器

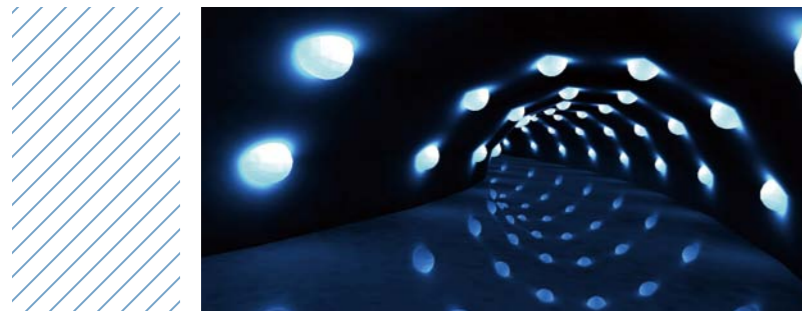
## 说明 Instructions

- 低功耗、低温升、低噪声，长寿命。
- 对提高灯的光效，减小光衰，延长灯的使用寿命具有显著意义。
- 线路板硅胶密封，防潮、防尘，安全可靠。
- 安装便捷，无需外置触发器和电容。
- Low power consumption, low temperature rise, low noise, long life.
- There is the remarkable significance to improve luminous efficiency, reduce light decline, extend life time of lamp.
- Circuit board is sealed in glue, with the functions of moistureproof, dustproof, security and reliability.
- Easy to install, no need external ignitor and capacitor.



## 技术参数 Technical Parameters

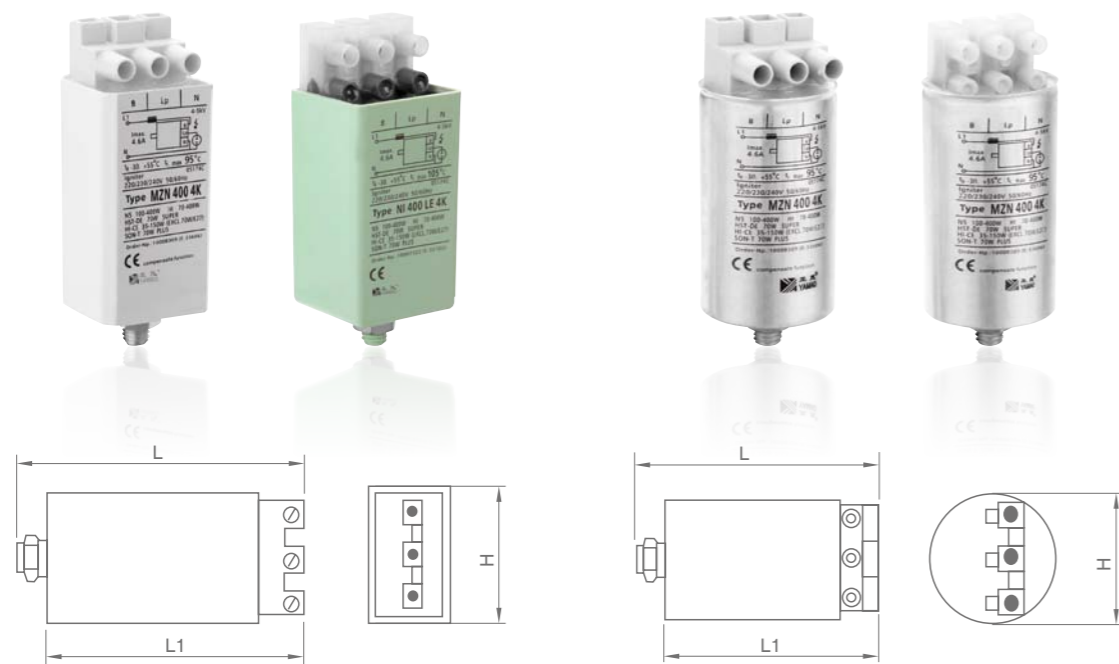
高压钠灯电子镇流器 Electronic Ballast For High Pressure Sodium Lamp						
型号	光源功率	电源电压/频率	功率因数	输入电流	输入功率	镇流器尺寸
Description	Lamp Watt (W)	Supply Voltage / Frequency	Power Factor	Input Current (A)	Input Power (W)	Dimension Size (mm)
						L P H
HPS70-EB	70	220-240V/50-60Hz	0.95	0.35	78	190 96 60
HPS100-EB	100	220-240V/50-60Hz	0.95	0.50	110	190 96 60
HPS150-EB	150	220-240V/50-60Hz	0.95	0.74	163	190 96 60
HPS250-EB	250	220-240V/50-60Hz	0.99	1.1	265	255 100 65
HPS400-EB	400	220-240V/50-60Hz	0.99	1.8	432	255 100 65
HPS600-EB	600	220-240V/50-60Hz	0.99	2.7	648	290 120 75
HPS1000-EB	1000	220-240V/50-60Hz	0.99	4.5	1060	335 155 80



# Electronic Ignitor 电子触发器

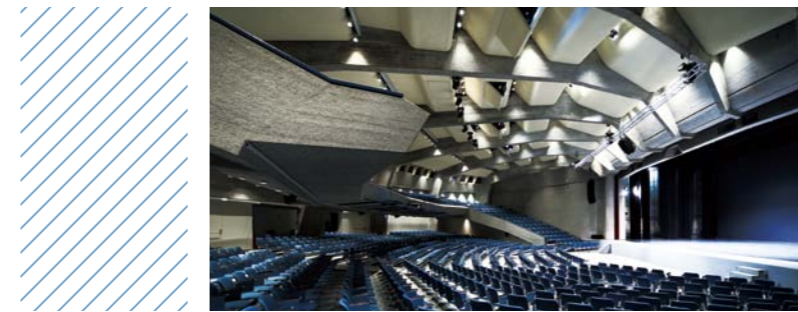
## 说明 Instructions

- 圆柱型铝外壳和塑料外壳备有 M8 螺栓。
- 电子元件用环氧树脂密封，防水、防潮、防尘。
- 符合 EN61347 标准。
- Cylindrical aluminium housing with fastening M8 bolt.
- Electrical components sealed in epoxy resin and designed for dust and moisture proof.
- Meet EN61347 safety standard.



## 技术参数 Technical Parameters

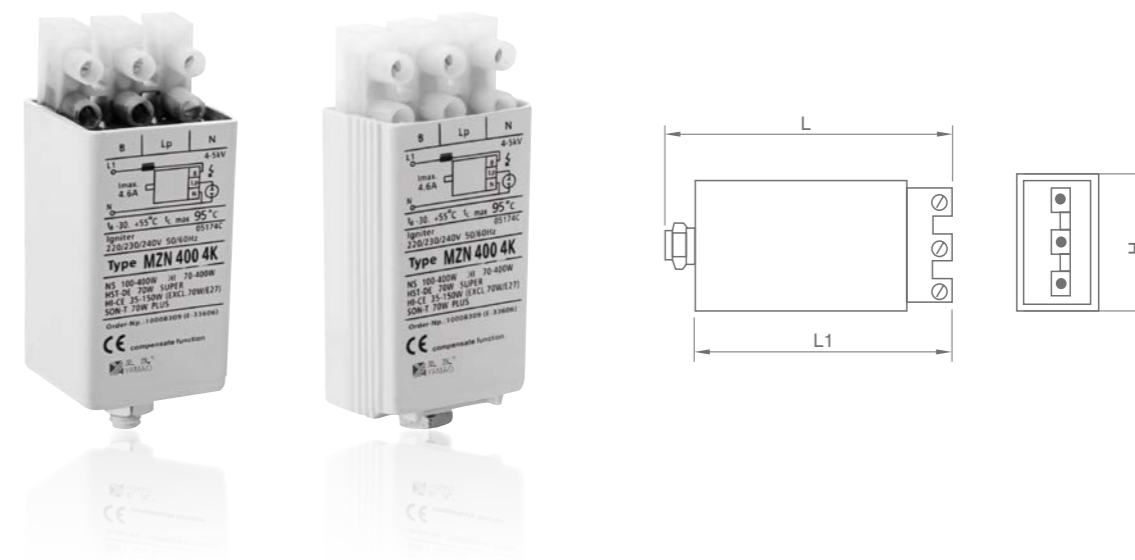
型号	适用灯管	电源电压	频率	开启/关闭电压	脉冲高度	脉冲宽度	最大灯管电流	最高外壳温度	触发器尺寸		
Description	Lamp Power(W)	Supply Voltage(V)	Frequency (Hz)	Resp/Cut Off Voltage	Impulse Height	Impulse Width	Max. Lamp Current(A)	Max. Casing t <sub>c</sub>	Dimension Size (mm)		
									L	L1	H
CD3000	150-400	220-240	50-60	≤198V/≥170V	3-4.5KV	≥1uS	5	85	90	80	35
CD5000	150-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	85	75	35
CD2001	70-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	90	80	35
CD2000	50-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	90	80	35
CD7000	400-1000	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	12	85	108	98	45
CD0008	70-400	220-240	50-60	≤198V/≥170V	3-4.5KV	≥1uS	5	85	92	82	32
CD0002	50-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	96	86	36
CD0005E	50-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	90	80	36
CD002F	50-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	87	79	37
CD0015	400-1000	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	12	85	96	84	48



# Timer Electronic Ignitor 定时触发器

## 说明 Instructions

- 定时触发器除具备标准触发器的功能外，可确保触发脉冲仅在指定的时段内产生，这样可以避免不完全触发或有坏灯时发生持续触发及灯管一明一暗的现象发生，有效地保护了镇流器和灯管。
- 定时触发器于预设工作时间后自动停止触发，同时在电源电压切断后，定时功能重设。
- Besides the same functions as the standard ignitor, Timer-ignitor(10 minutes) can ensure ignition pulse actions only generated in a specified time period, in that case the event of continual ignition attempts and the blinking operation can be avoided.
- The timer will be auto-matic switching off after the setting times, and will be reset by switching off the main supply voltage.



## 技术参数 Technical Parameters

型号	适用灯管	电源电压	频率	开启/关闭电压	脉冲高度	脉冲宽度	最大灯管电流	最高外壳温度	触发器尺寸		
Description	Lamp Power(W)	Supply Voltage(V)	Frequency (Hz)	Resp/Cut Off Voltage	Impulse Height	Impulse Width	Max. Lamp Current(A)	Max. Casing t <sub>c</sub>	Dimension Size (mm)		
									L	L1	H
CD0002K-D5	70-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	90	79	37
CD0005E-D10	70-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	92	80	36
CD0005E-D20	70-400	220-240	50-60	≤198V/≥170V	3.5-5KV	≥1uS	5	85	92	80	36