

CNL
OPTOELECTRONIC



LAMPS
ELECTRIC APPLIANCES
LIGHTING FIXTURES

2012-2013



CNL

—— Light from the heart ——



Headquarter in Xi'an industrial park, Foshan city, Guangdong province, P.R. China, Foshan CNL Optoelectronic Technology Co., Ltd. (CNL) is a high-tech enterprise dedicated to developing, producing and selling high-end HID or LED lamp/electrical appliance/lighting fixture, as well as offering lighting solutions and after-service. We provide a series of service to customers including design, manufacture, distribution, mounting, debug and maintenance.

We have advanced technology and strong supply. The factory is equipped with advanced machines from Germany, Japan and dustless workshops, fully implementing ISO9001 quality system and ERP system. We adopt a computerized real-time process control system - SPC and 6 sigma quality methodology to ensure the disqualification rate under 3.4 per million. We establish a well-equipped professional laboratory for lighting and electrical product tests, which has been recognized by many famous international lighting brands. All of our products conform to IEC international standard and GB China national standard.

For many years we are dedicated to providing products and lighting solutions on energy-saving, road traffic lighting, commercial lighting, landscape lighting and industrial lighting. We have established a long-term cooperation relationship with many famous big companies home and abroad, such as the biggest HID electrical appliance manufacturer in the world --- Foshan Huaquan Electrical Lighting Co., Ltd.. It is working with such excellent companies that greatly ensures CNL products, with its world-class technology and quality, to be the best and most competitive one on product performance and price.

Company visions: pursue sustainable development, commit to providing professional green lighting products and technical service, and endeavor to develop its competence through technical innovation, channel development and brand management, to be the industrial leader.

Company mission: create value for customers and opportunities for staff, take social responsibilities.

Company spirit: conscientious, honest, united and innovative.

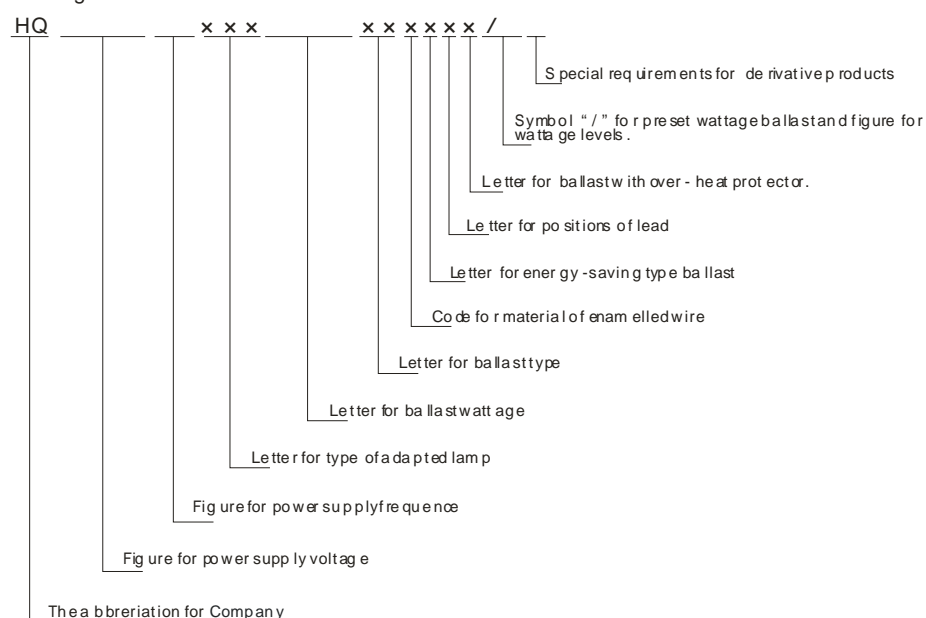
CNL looks forward to your visit and join, let us go forward together!





The Coding System of HID Ballast Models

Coding Rules:



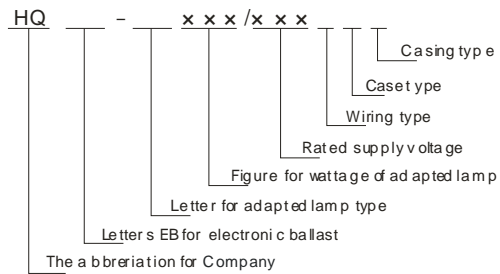
Notes:

Letter Codes	Type	Letter Codes	Type
LNG	Ballast for HPS lamp with low tube voltage	NG	Ballast for Europe standard HPS lamp with regular tube voltage
GGY	Ballast for fluorescent high voltage mercury lamp	Z	Impedance type
JLZ	Ballast for US standard MH lamp	ZF	Impedance and resin sealed type
MH	Ballast for Europe standard MH lamp	L	Magnetic leakage and voltage-up type
JD	Ballast for dysprosium lamp	J	Energy-saving type
HNG	Dimming ballast	U	Lead terminal up
GGZ	Ballast for linear ultraviolet, high voltage mercury lamp	T	Ballast with over-heat protector
KN	Ballast for scandium and sodium lamp	Q	Others
WT	Ballast for stage lamp		



The Coding System of Electronic Ballast Models

Coding Rules:



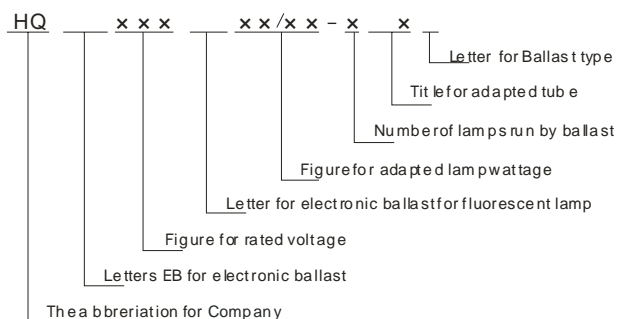
Notes:

Letter Codes	Type	Letter Codes	Type
EB	Electronic Ballast	NG	European standard HP Slamp with regular tube voltage
LNG	Ballast forHP S lamp with lowtube voltage	WT	Ballast for stage lamp
JLZ	US standard Ballastfor MH lamp		
MH	European standard BallastforMH lamp		



The Coding System of Fluorescent Lamp Ballast Models

Coding Rules::



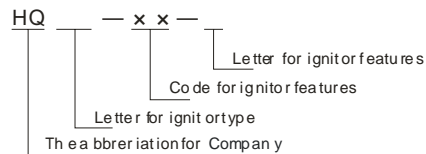
Notes:

Letter Codes	Type	Letter Codes	Type
EB	Electronic Ballast	PLCB	Tube shape
YZ	Fluorescent Ballast		
J	Economic type		
B	Standard type		



The models and Coding system of Electronic ignitor

Coding Rules:



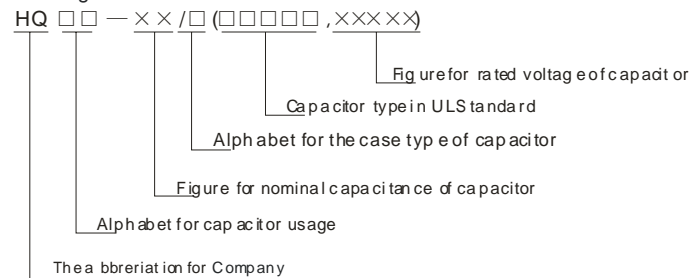
Notes:

Letter Codes	Type	Letter Codes	Type
IG	Conventional Ignitor	L	Long Distance
CD	Conventional Ignitor	3M	Tap Type Ignitor



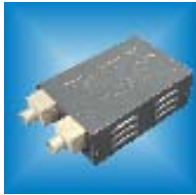
Capacitor Coding System

Coding Rules:



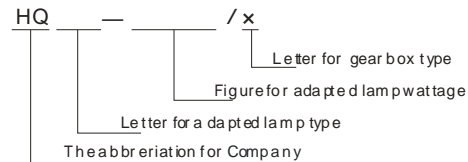
Notes:

Items	Letter/Figure code	Adapted types
Letter code for capacitor usage types	CC	Capacitor for lighting (Rated voltage below 500v)
	CS	Capacitor for lighting (Rated voltage over 500v)
	CM	Capacitor designed for electric motor
	CB	Power Supply Capacitor (in parallel connection) for distribution board
Figure code for nominal capacitance	2 ~ 60	Capacitance in microfarads
Letter code for capacitor in UL way	CBB65	Aluminum case (UL way)
	CBB60	Plastic case (UL way)
Figure code for rated voltage	250 ~ 540V	Rated voltage
Letter code for capacitor case type	/P	Default for polished plastic case/not for polished aluminum case



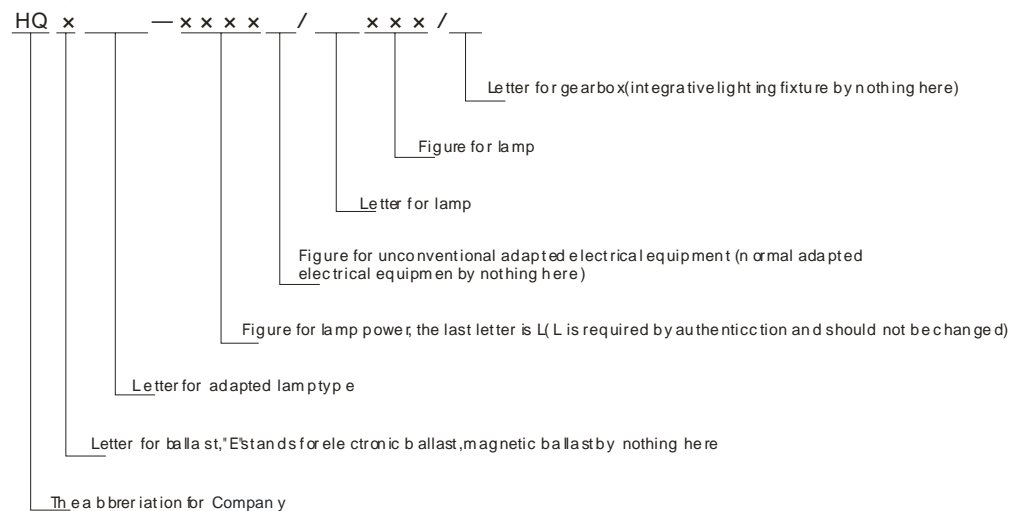
The Coding System of HID Gear Box Models

Coding Rules:



The Coding System of HID Gear Box Models

Coding Rules:



说明:

Notes:

Letter Codes	Type	Letter Codes	Type
BG	Gear box for fluorescent high pressure mercury bulb	B	B type gear box
BO	Gear box for European standard MH lamp	C	C type gear box
BJ	Gear box for US standard MH lamp	D	D type gear box
BNH	Gear box for HPS lamp with high tube voltage	E	Aluminium die cast gear box
BNL	Gear box for HPS lamp with low tube voltage	F	Guideway lamp gear box
BN	Gear box for HPS lamp	S	Miniature type gear box
BQ	Gear box for other type lamp	S1	S1 type miniature gear box

Product Innovation Guide 2012-2013

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HID Lamp series

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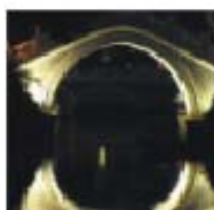
HID Electric appliances series

23 - 44



Gear box series

45 - 62



HID Lighting fixture series

63 - 136



Lamp of gas discharge
with the kit of electric
appliance

137 - 140





HID lamp series



Features:

Adopt aluminum reflector as casing to achieve different reflection angle of the directional lighting, high utilization rate of light;
Ceramic arc tube, stable light color within the service life;
Anti-glare design, lighting effects to create a comfortable Light at any position

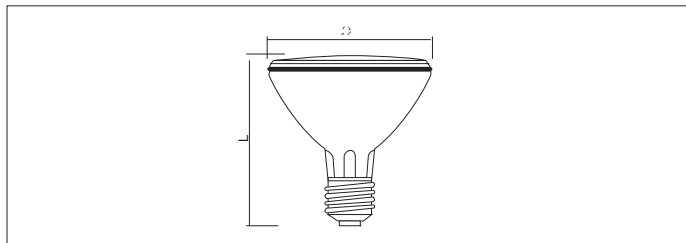
Advantages:

High luminous efficiency and low cost
Service life over 8000 hours, low maintenance and replacement costs
Outstanding color rendering performance which can present the product colors well.
Compact structure and small size, can use in simple lamps providing effective accent lighting;
Low heating loss, comfortable lighting
Can be used for open type fixtures and simplify the lamp design;
UV-proof quartz glass envelope to reduce negative impact of UV exposure.

Application:

Premium clothing brand stores, jewelry accent lighting, high end hotel lighting; Show windows lighting and other accent lighting

size



Data sheet

Model	Power (W)	Color Temperature (K)	Lamp Tube Voltage (V)	Lamp Current (A)	Average Life (H)	Lamp holder	Color Rendering Index	Angle (°)	Max. Length L (mm)	Max. Diameter Ø (mm)
CMH20 - R30/830/SP10/E27	20	3000	95	0.21	8000	E27	83	10	124	96
CMH20 - R30/942/SP10/E27	20	4200	95	0.21	8000	E27	92	10	124	96
CMH35 - R30/830/SP10/E27	35	3000	90	0.53	8000	E27	83	10	124	96
CMH35 - R30/942/SP10/E27	35	4200	90	0.53	8000	E27	92	10	124	96
CMH70 - R30/830/SP10/E27	70	3000	90	0.98	8000	E27	83	10	124	96
CMH70 - R30/942/SP10/E27	70	4200	90	0.98	8000	E27	92	10	124	96
CMH20 - R30/830/FL25/E27	20	3000	95	0.21	8000	E27	83	25	124	96
CMH20 - R30/942/FL25/E27	20	4200	95	0.21	8000	E27	92	25	124	96
CMH35 - R30/830/FL25/E27	35	3000	90	0.53	8000	E27	83	25	124	96
CMH35 - R30/942/FL25/E27	35	4200	90	0.53	8000	E27	92	25	124	96
CMH70 - R30/830/FL25/E27	70	3000	90	0.98	8000	E27	83	25	124	96
CMH70 - R30/942/FL25/E27	70	4200	90	0.98	8000	E27	92	25	124	96
CMH20 - R30/830/WFL40/E27	20	3000	95	0.21	8000	E27	83	40	124	96
CMH20 - R30/942/WFL40/E27	20	4200	95	0.21	8000	E27	92	40	124	96
CMH35 - R30/830/WFL40/E27	35	3000	90	0.53	8000	E27	83	40	124	96
CMH35 - R30/942/WFL40/E27	35	4200	90	0.53	8000	E27	92	40	124	96
CMH70 - R30/830/WFL40/E27	70	3000	90	0.98	8000	E27	83	40	124	96
CMH70 - R30/942/WFL40/E27	70	4200	90	0.98	8000	E27	92	40	124	96

Commercial Lighting Color Rendering

The color appearance for lighting on the object is called color rendering. It is measured by the same color temperature light reference or comparison with reference light source (incandescent or natural light) on object color appearance. Light source color rendering has significant effect on the display of the object's color appearance. CIE uses general color rendering index Ra as the light source performance indicator. It is determined by the measured light and reference light source illumination color bit average value according to the regulated eight different tested color. Maximum Ra' is 100 in theory.

Ra : 90~100

Superior color rendering

Application: applies to places with critical assessment of color rendering.

Ra: 80~90

Good color rendering

Application: applies to places with requirements of good color rendering.

Ra: 60~80

Moderate to poor color rendering

Application: suitable for places with less demanding on the color rendering.



Ra90



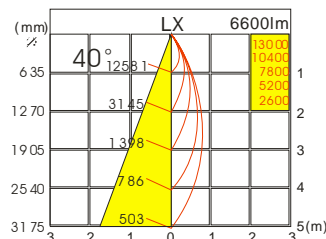
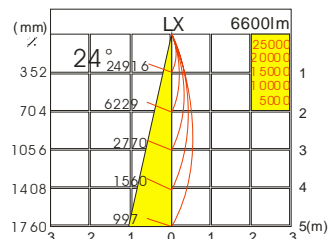
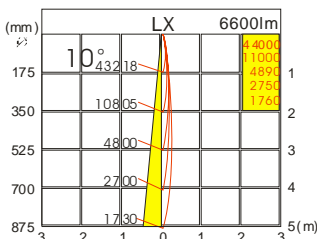
Ra60



Ra60~80



Ra90~100





Advantages:

High luminous efficiency and low cost
Service life over 8000 hours, low maintenance and replacement costs
Outstanding color rendering performance which can present the product colors well.
Compact structure and small size, can use in simple lamps providing effective accent lighting;
Low heating loss, comfortable lighting
Can be used for open type fixtures and simplify the lamp design;
UV - proof quartz glass envelope to reduce negative impact of UV exposure.

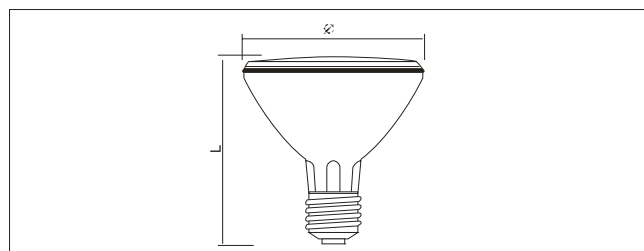
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Features:

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Ceramic arc tube, stable light color within the service life;
Anti-glare design, lighting effects to create a comfortable light at any position

size



Data sheet

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CMH20 - R20/830/SP10/E27	20	3000	95	0.21	8000	E27	83	10	96	65
CMH20 - R20/942/SP10/E27	20	4200	95	0.21	8000	E27	92	10	96	65
CMH35 - R20/830/SP10/E27	35	3000	90	0.53	8000	E27	83	10	96	65
CMH35 - R20/942/SP10/E27	35	4200	90	0.53	8000	E27	92	10	96	65
CMH20 - R20/830/FL25/E27	20	3000	95	0.21	8000	E27	83	25	96	65
CMH20 - R20/942/FL25/E27	20	4200	95	0.21	8000	E27	92	25	96	65
CMH35 - R20/830/FL25/E27	35	3000	90	0.53	8000	E27	83	25	96	65
CMH35 - R20/942/FL25/E27	35	4200	90	0.53	8000	E27	92	25	96	65
CMH20 - R20/830/WFL40/E27	20	3000	95	0.21	8000	E27	83	40	96	65
CMH20 - R20/942/WFL40/E27	20	4200	95	0.21	8000	E27	92	40	96	65
CMH35 - R20/830/WFL40/E27	35	3000	90	0.53	8000	E27	83	40	96	65
CMH35 - R20/942/WFL40/E27	35	4200	90	0.53	8000	E27	92	40	96	65

Commercial Lighting Color Rendering

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Ra : 90~100

Superior color rendering

Application: applies to places with critical assessment of color rendering.

Ra : 80~90

Good color rendering

Application: applies to places with requirements of good color rendering.

Ra : 60~80

Moderate to poor color rendering

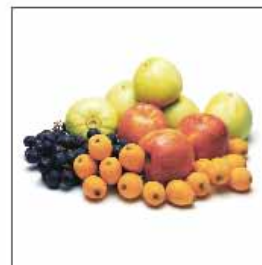
Application: suitable for places with less demanding on the color rendering.



Ra 90



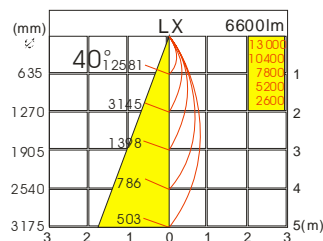
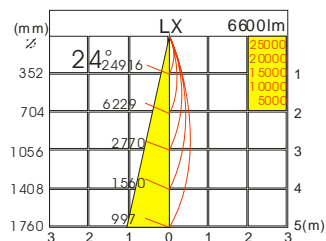
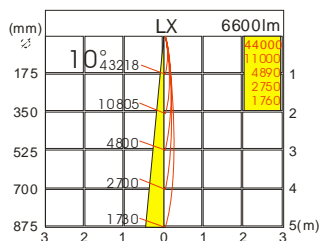
Ra 80



Ra 60~80



Ra 90~100





Features:

Integration of high light efficiency, high color rendering index and long life.
Two optional color temperature of 3000K and 4200K
Using polycrystalline alumina arc tube, over 98% light transmission
Light at any position

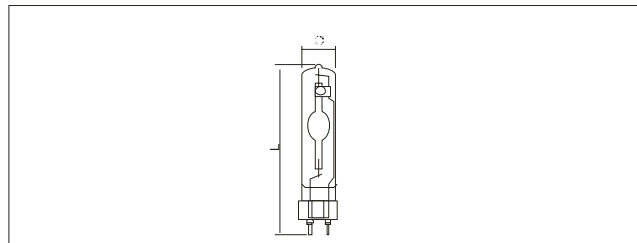
Advantages:

High light efficiency, energy - saving and environment friendly.
Service life over 8000 hours, low maintenance and replacement costs
Superior color rendering performance which can present the product colors well.
Less heating loss and comfort lighting effect.
UV quartz glass envelope reducing adverse effects of UV exposure.

Application:

Hotel lobbies, shops, windows, office lighting
Used for flood lighting, commercial area general lighting,
landscape lighting of public facilities.

size



data sheet

Model	Power (W)	Color Temperature (K)	Lamp Tube Voltage (V)	Lamp Current (A)	light efficiency (Lm/W)	Average Life (H)	Lamp holder	Color Rendering Index	Max. Length L (mm)	Max. Dia meter Ø (mm)	Optical center LCL (mm)
CMH35-T19/830/G12	35	3000	90	0.53	85	8000	G12	83	100	19	56
CMH35-T19/942/G12	35	4200	90	0.53	85	8000	G12	92	100	19	56
CMH70-T19/830/G12	70	3000	90	0.98	85	8000	G12	83	100	19	56
CMH70-T19/942/G12	70	4200	90	0.98	85	8000	G12	92	100	19	56

Commercial Lighting Color Rendering

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Ra : 90~100

Superior color rendering

Application: applies to places with critical assessment of color rendering.

Ra : 80~90

Good color rendering

Application: applies to places with requirements of good color rendering.

Ra : 60~80

Moderate to poor color rendering

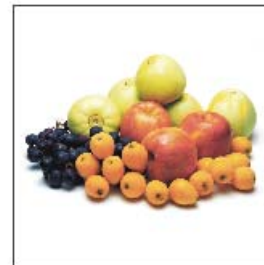
Application: suitable for places with less demanding on the color rendering.



Ra90



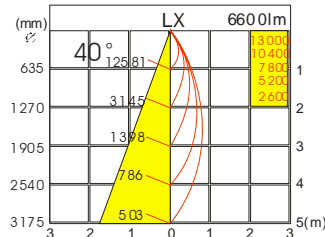
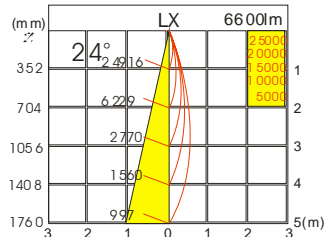
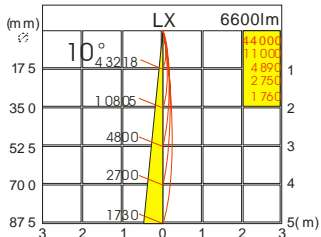
Ra60



Ra60~80



Ra90~100





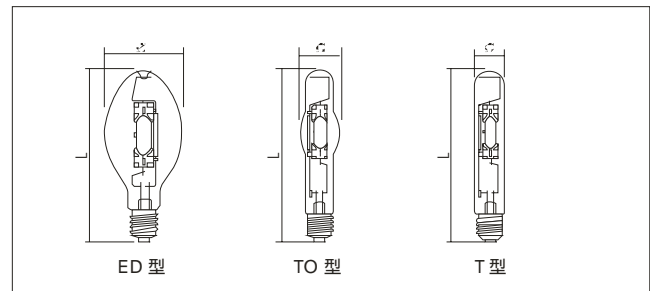
Characteristics:

- The latest manufacturing processes of perfect arc tubes.
- No auxiliary.
- Working and Starting with impedance ballast and high voltage pulse igniter is of characteristic of pulse start.
- Used in reasonable light circuit diagram, can protect the lamp electrode and extend lamp service life.
- With Electric arc tube, it can be operated at any operating position
- High luminous efficacy (100lm/W) and excellent colour rendering index (above Ra65)
- Producing bright light makes you feel the real sunshine even indoors.

Applications:

- They are regularly in use for example at public place, in shops, factories, and sports halls, in stadiums and for street lighting, warehouse lighting, wide-area lighting.

size



Data sheet

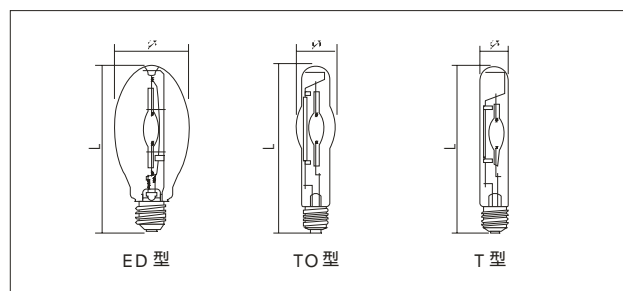
Model	Code	Power (W)	Luminous flux (Lm)	Max. Diameter (mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/PS 175- ED1	26104101 01	175	14000	55	150	E27	10000	ED
HQ/PS 175- ED2	26104101 02	175	14000	90	210	E40	10000	ED
HQ/PS 250- ED	26104121 04	250	20500	90	210	E40	10000	ED
HQ/PS 250- T	26104121 05	250	20500	46	255	E40	10000	T
HQ/PS 400- TO	26104171 04	400	36000	65	280	E40	12000	TO
HQ/PS 400- ED	26104171 03	400	36000	120	280	E40	12000	ED



Characteristics:

- Single pulse start: Meanwhile, it reduces the igniting voltage value when starting lamp, avoiding lamp premature fail, reducing spectral attenuation, prolonging lamp service life.
- Compliance of light and colour: Adopting special outline design of oval shape brings excellent colour and light compliance, achieving ceramic Metal Halide Lamp effect
- Operating position: With Electric arc tube, it can be operated at any operating position, including the horizontal burning position and vertical burning position, better effect with vertical burning position.
- No welding - point structure: With no welding - point bracket installation structure can prevent bracket welding - point from breaking, and enhance lamp reliability.
- High luminous efficacy: Up to 20% higher luminous efficacy
- Extremely long life: Used in reasonable light circuit diagram, can protect the lamp electrode and extend lamp service life, up to 20,000 hours.
- Stabilize and restart time: It takes 50% shorter than that of regular lamp.

size



Applications:

- They are regularly in use for example at public place, in shops, factories, and sports halls, in stadiums and for street lighting, warehouse lighting, wide-area lighting.

Data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter \varnothing (mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/UPS250 - T	2610412103	250	2.10	24000	4000	46	255	E40	20000	T
HQ/UPS250 - ED	2610412102	250	2.10	24000	4000	90	210	E40	20000	ED
HQ/UPS400 - TO	2610417105	400	3.25	40000	4000	65	280	E40	20000	TO
HQ/UPS400 - ED	2610417102	400	3.25	40000	4000	120	280	E40	20000	ED



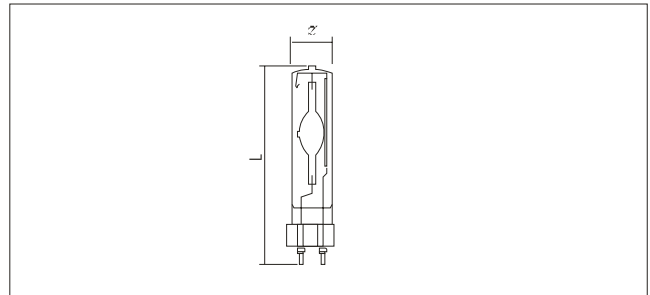
Characteristics:

- High lighting efficacy, and color rendering is excellent.
- Long life, good performance but in low cost.

Application s:

- Sports gym, exhibition center, large merchandise, park, building flooding illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flu x (Lm)	Color temperature (K)	Max. Diameter φ (mm)	Length L (mm)	Base	Average Life (h)	Bulb
HQ/MH 70 - T3	2610904007	70	0.98	5500	4200	22.5	96	G12	5000	-
HQ/MH 100 - T3	2610906009	100	1.10	8500	4200	22.5	106	G12	5000	-
HQ/MH 150 - T3	2610909022	150	1.80	12500	4200	22.5	106	G12	5000	-



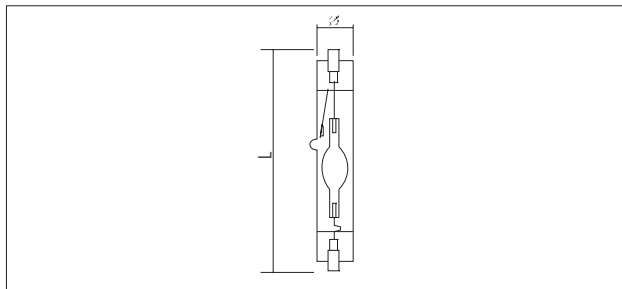
Characteristics:

- Vessel coated with Al_2O_3 ,
- So as to reduce heat loss and keep certain difference in temperature, preventing the end from cold.
- The temperature of the part powdered with Al_2O_3 will rise. This will also increase temperature of arc tube cold end, bringing better circle effect, which will improve electric characteristics.
- Coated powder Al_2O_3 will sustain certain electric characteristics, preventing photoelectric parameters from being affected by attached tungsten atomic which resulted from radiation.
- High lighting efficacy, long life.
- Soft lighting color, small volume, easy matched for using.

Applications:

- Commercial illumination, exhibition center, advertising illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter \varnothing (mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/MH70 - TD	2610904002	70	0.98	5500	4200	19	116	Rx7s	5000	TD
HQ/MH100 - TD	2610906002	100	1.10	8500	4200	22.5	135	Rx7s	5000	TD
HQ/MH150 - TD	2610909001	150	1.80	12500	4200	22.5	135	Rx7s	5000	TD



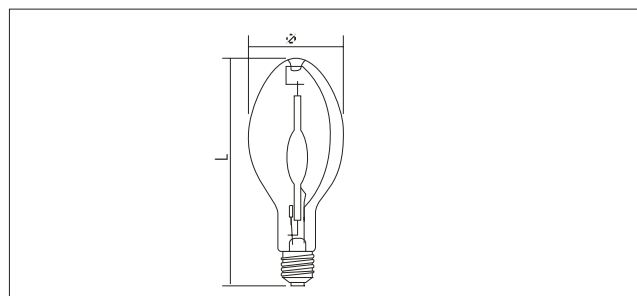
Characteristics:

- High luminous efficacy, color appearance is stable.
- Long life. good performance but in low cost.

Applications:

- Sports gym, exhibition center, large merchandise, park, building flooding illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter φ (mm)	Length L (mm)	Base	Average Life (h)	Bulb
HQ/JLZ70 - ED1	2610904014	70	0.98	5600	4000	55	145	E27	6000	ED
HQ/JLZ70 - ED2	2610904009	70	0.98	5600	4000	90	210	E40	6000	ED
HQ/JLZ100 - ED1	2610906001	100	1.10	8500	4000	55	145	E27	6000	ED
HQ/JLZ100 - ED2	2610906004	100	1.10	8500	4000	90	210	E40	6000	ED
HQ/JLZ150 - ED1	2610909020	150	1.80	13500	4000	55	145	E27	6000	ED
HQ/JLZ150 - ED2	2610909008	150	1.80	13500	4000	90	210	E40	6000	ED



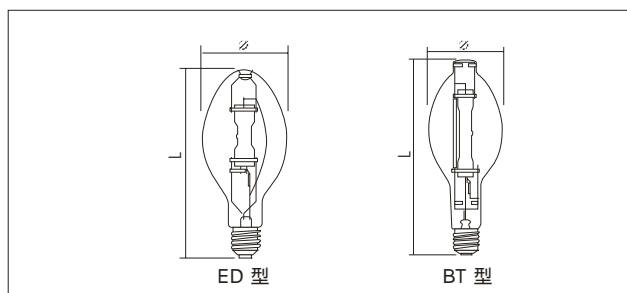
Characteristics:

- Energy - saving , daylight color .
- High lighting efficacy, long life, and color rendering is excellent.

Applications:

- Sports gym, exhibition center, large merchandise, park, building flooding illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter ø(mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/JLZ175 - ED1	2610410001	175	1.50	14000	4000	55	150	E27	10000	ED
HQ/JLZ175 - ED2	2610410002	175	1.50	14000	4000	90	210	E40	10000	ED
HQ/JLZ250 - ED	2610412005	250	2.10	20500	4000	90	210	E40	10000	ED
HQ/JLZ400 - ED	2610417006	400	3.25	36000	4000	120	280	E40	12000	ED
HQ/JLZ1000 - BT	2610422001	1000	4.10	110000	4000	180	385	E40	8000	BT



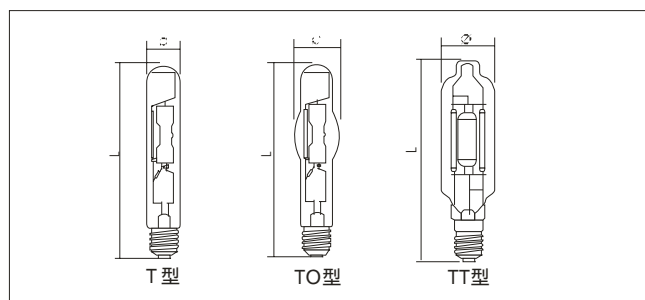
Characteristics:

- High luminous efficacy, color appearance is stable.
- Long life, good performance but in low cost.

Applications:

- Sports gym, exhibition center, large merchandise, park, building flooding illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter Φ (mm)	Length L (mm)	Base	Average Life (h)	Bulb
HQ/JLZ175-T1	2610410006	175	1.50	14000	4000	37.5	170	E27	10000	T
HQ/JLZ175-T2	2610410007	175	1.50	14000	4000	46	210	E40	10000	T
HQ/JLZ250-T	2610412001	250	2.10	20500	4000	46	210	E40	10000	T
HQ/JLZ400-TO	2610417004	400	3.25	36000	4000	65	280	E40	10000	TO
HQ/JLZ1000-TT	2610422003	2000	4.10	110000	4000	84	385	E40	8000	TT
HQ/JLZ2000-TT	2610426002	2000	10.30	190000	4000	90	455	E40	3000	TT



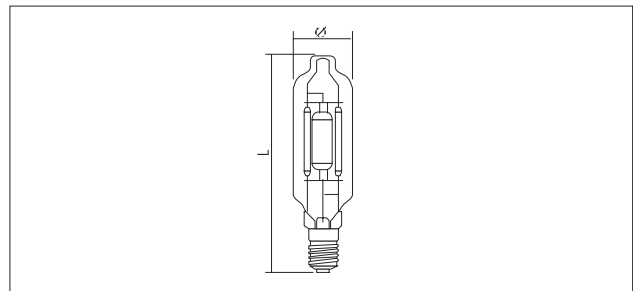
Characteristics:

- High luminous efficacy, color appearance is stable.
- Long life. good performance but in low cost.

Applications:

- Sports gym, exhibition center, large merchandise, park, building flooding illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter φ(mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/MH1000 - TT	2610922001	1000	8.25	85000	4000	84	385	E40	8000	TT



Characteristics:

- High luminous efficacy, meet all kind of lighting requirement, but position discretionarily.
- Color appearance is stable, long life.
- good stability of luminous flux.
- Have red, green, blue, purple, . colors and so on.

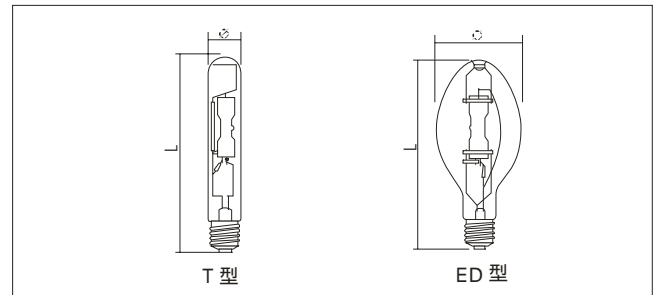
Applications:

- Park lighting, colorful flood lighting.



Note: standard color, G: green, R: red, P: purple, B: blue

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Max. Diameter ø(mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/JLC 175 ■ - T1	2610410005	175	1.50	14000	37.5	170	E27	3800	T
HQ/JLC 250 ■ - T	2610412003	250	2.10	20500	46	210	E40	4000	T
HQ/JLC 400 ■ - TO	2610417003	400	3.25	36000	65	280	E40	5000	T
HQ/JLC 70 ■ - ED1	2610904011	70	0.98	5600	55	145	E27	3800	ED
HQ/JLC 150 ■ - ED	2610909019	150	1.80	14000	55	145	E27	3800	ED
HQ/JLC 175 ■ - ED2	2610410004	175	1.50	14000	90	210	E40	4000	ED
HQ/JLC 250 ■ - ED	2610412004	250	2.10	20500	90	210	E40	4000	ED
HQ/JLC 400 ■ - ED	2610417002	400	3.25	36000	120	280	E40	5000	ED



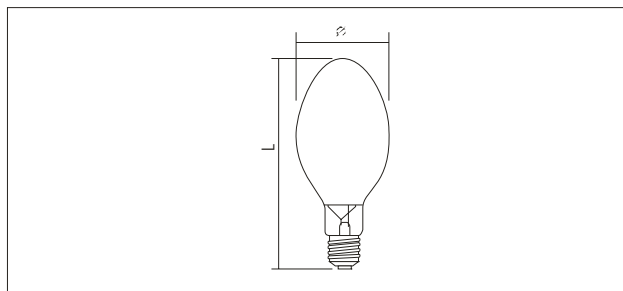
Characteristics:

- Long life, the light is soft, can guard against ultraviolet radiation.
- Can bring about comfortable lighting atmosphere.

Applications:

- Sports gym, exhibition center, large merchandise, park, building flood lighting illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter φ(mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/JLZ 175 - ED/P	2610410009	175	1.50	14000	4000	90	210	E40	10000	ED
HQ/JLZ 250 - ED/P	2610412010	250	2.10	20500	4000	90	210	E40	10000	ED
HQ/JLZ 400 - ED/P	2610417001	400	3.25	36000	4000	120	280	E40	10000	ED



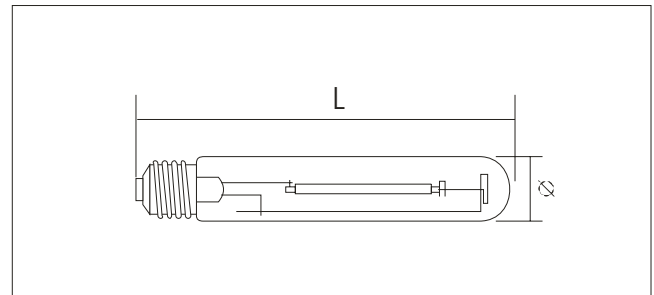
Characteristics:

- High luminous efficacy, long life.
- Environmental friendly, and stable performance .

Applications:

- Road, airport, dock, industry, illumination.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color tem perature (K)	Max. Diameter Ø (mm)	Length L (mm)	Base	Average Life (h)	Bulb
HQ/NG 50 - T	2610203001	50	0.76	3400	2000	37.5	155	E27	180 00	T
HQ/NG 70 - T	2610204001	70	0.98	5400	2000	37.5	155	E27	18000	T
HQ/NG 100 - T	2610206001	100	1.20	8300	2000	37.5	170	E27	18000	T
HQ/NG 110 - T	2610207001	110	1.20	9000	2000	37.5	170	E27	18000	T
HQ/NG 150 - T1	2610209001	150	1.80	14000	2000	37.5	170	E27	18000	T
HQ/NG 150 - T2	2610209002	150	1.80	14000	2000	46	215	E40	180 00	T
HQ/NG 250 - T	2610212001	250	3.00	25000	2000	46	255	E40	240 00	T
HQ/NG 400 - T	2610217001	400	4.60	44000	2000	46	280	E40	24000	T
HQ/NG 600 - T	2610219001	600	6.20	65000	2000	46	280	E40	18000	T
HQ/NG 1000 - T	2610222001	1000	10.30	120000	2000	66	385	E40	18000	T

Double-ended high pressure sodium lamp



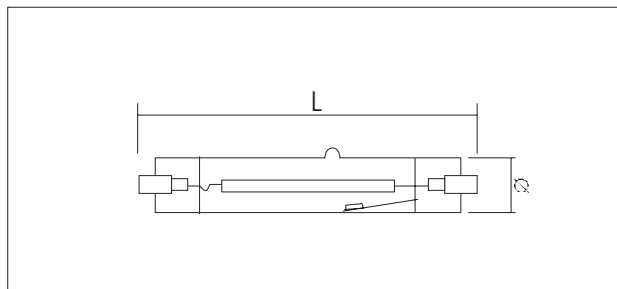
Characteristics:

- Long life, economic and durable.
- High luminous efficacy, provide high contrast visibility in mist and fog

Applications:

- Indoor and outdoor large object illumination, building, street, park, railway, factory, warehouse, and airport etc.

size



data sheet

Model	Code	Power (W)	Lamp current (A)	Luminous flux (Lm)	Color temperature (K)	Max. Diameter (mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/NG70 - TD	26 102040 03	70	0.98	5400	2000	19	116	Rx7s	18 000	TD
HQ/NG150 - TD	26 102090 03	150	1.80	14000	2000	22.5	135	Rx7s	18 000	TD



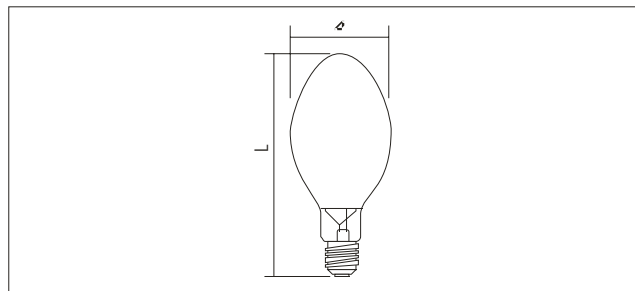
Characteristics:

- white light, color temperature: 4100K.
- Long service life and durable.
- Economic.

Applications:

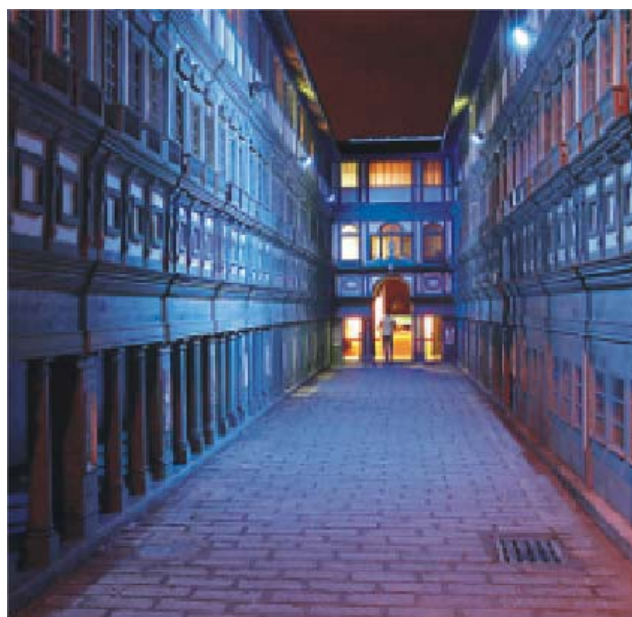
- street illumination, indoor and outdoor industrial lighting

size



data sheet

Model	Code	Power (W)	Luminous flux (Lm)	Max. Diameter φ (mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/GGY50 - ED	26 10103001	50	1500	76	150	E27	4000	ED
HQ/GGY80 - ED	26 10105002	80	3000	76	160	E27	5500	ED
HQ/GGY125 - ED	26 10108001	125	5000	76	160	E27	5800	ED
HQ/GGY175 - ED	26 10110002	175	7500	90	210	E40	6000	ED
HQ/GGY250 - ED	26 10112001	250	11000	90	210	E40	8000	ED
HQ/GGY400 - ED	26 10117001	400	21000	120	280	E40	8000	ED
HQ/GGY1000 - BT	26 10122001	1000	52000	180	280	E40	8000	BT



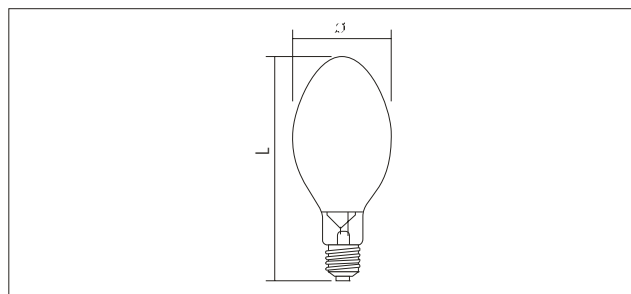
Characteristics:

- soft white light.
- without ballast.
- Economic and easy maintenance.
- in place of incandescent bulb.

Applications:

- street illumination, in door and outdoor industrial lighting

size



datasheet

Model	Code	Power (W)	Luminous flux (Lm)	Max. Diameter (mm)	Length L(mm)	Base	Average Life (h)	Bulb
HQ/GYZ125-ED	2610108002	125	1500	76	160	E27	3000	ED
HQ/GYZ160-ED	2610131001	160	2560	76	160	E27	3000	ED
HQ/GYZ250-ED	2610112002	250	4900	90	210	E40	3500	ED
HQ/GYZ450-ED	2610132001	450	11000	120	280	E40	3500	ED

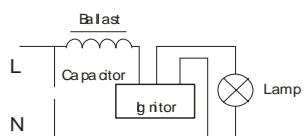




HID electric appliances series

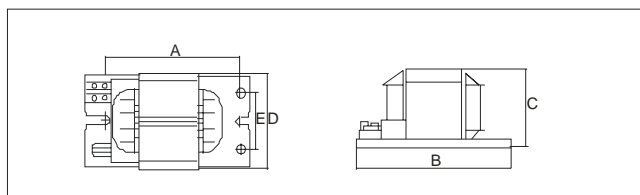


Applications: for use of 35W ~ 1000W sodium lamps



Wiring diagram A

size

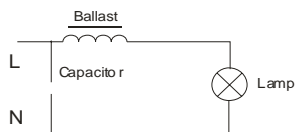


Model	Code	Specifications	Size(mm)					Quantity / carton (pcs)	Layer / carton	Packaging meas (mm)
			a	b	c	d	e			
HQ200NG35L	2120202001	220V 50Hz	98	117	52	60	36	8	7.60	260X150X170
HQ200NG50L	2120203001	220V 50Hz	98	117	52	60	36	8	8.50	260X150X170
HQ200NG70L	2120204002	220V 50Hz	98	117	52	60	36	8	10.00	260X150X170
HQ200NG100L	2120206001	220V 50Hz	98	117	52	60	36	8	10.30	260X150X170
HQ200NG150L	2120209002	220V 50Hz	104	126	64	75	45	6	11.50	260X150X170
HQ200NG250L	2120212001	220V 50Hz	128	150	64	75	45	6	17.50	260X175X160
HQ200NG400L	2120217001	220V 50Hz	143	165	83	96	61	4	19.60	210X190X205
HQ200NG600L	2120219001	220V 50Hz	143	165	83	96	61	4	21.50	210X190X205
HQ200NG1000L	2120222001	220V 50Hz	178	200	97	114	81	2	17.90	260X220X115

AC: 220V 50Hz

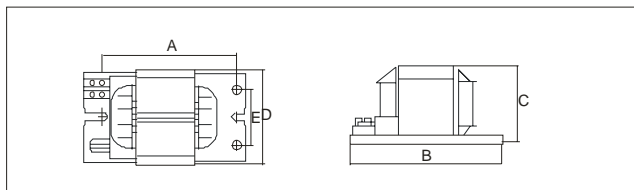
bulb parameters			ballast model	Electrical data											
				start current (A) working current (A) Power Factor ()			0.9								
start current (A)	circuit current (A)	capacitor (uF)					loss (W)	power (W)	adapted for ignitor	t Temp. Rise (K)	Max. operating temp.	wiring diagram			
35	0.53	85	HQ200NG35L	0.77	0.53	0.37	0.250	0.217	6	8	43	HQCD-7	70	85	A
50	0.76	85	HQ200NG50L	1.10	0.76	0.35	0.343	0.298	8	9	59	HQCD-7	70	85	A
70	0.98	90	HQ200NG70L	1.42	0.98	0.38	0.482	0.419	12	13	83	HQCD-7	70	85	A
100	1.20	100	HQ200NG100L	1.74	1.20	0.43	0.662	0.576	12	14	114	HQCD-7	70	85	A
150	1.80	100	HQ200NG150L	2.52	1.80	0.43	0.987	0.859	18	20	170	HQCD-7	70	85	A
250	3.00	100	HQ200NG250L	4.20	3.00	0.42	1.597	1.389	32	25	275	HQCD-7	70	85	A
400	4.60	100	HQ200NG400L	6.44	4.60	0.43	2.521	2.192	50	34	434	HQCD-7	70	85	A
600	6.20	110	HQ200NG600L	8.68	6.20	0.47	3.746	3.258	60	45	645	HQIG-N	80	75	A
1000	10.30	115	HQ200NG1000L	12.88	10.30	0.47	6.215	5.404	100	70	1070	HQIG-N	80	75	A

Applications: For uses of 50W ~ 1000W high pressure mercury lamps



Wiring diagram C

size



Model	Code	Specifications	Size(mm)					Quantity /carton (pcs)	Layer /carton	Packaging meas (mm)
			a	b	c	d	e			
HQ200GGY50L	2120103001	220V 50Hz	98	117	52	60	36	8	8.50	260X150X170
HQ200GGY80L	2120105001	220V 50Hz	98	117	52	60	36	8	9.00	260X150X170
HQ200GGY125L	2120108001	220V 50Hz	98	117	52	60	36	8	10.80	260X150X170
HQ200GGY175L	2120110002	220V 50Hz	104	126	64	75	45	6	11.50	260X150X170
HQ200GGY250L	2120112005	220V 50Hz	104	126	64	75	45	6	13.60	260X150X170
HQ200GGY400L	2120117003	220V 50Hz	128	150	64	75	45	6	19.30	260X175X170
HQ200GGY1000L	2120122002	220V 50Hz	193	215	83	96	61	2	14.70	240X220X104

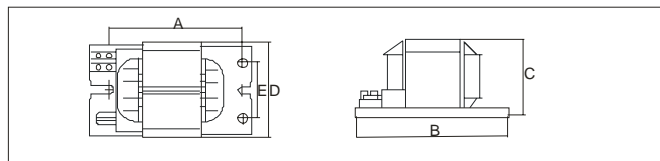
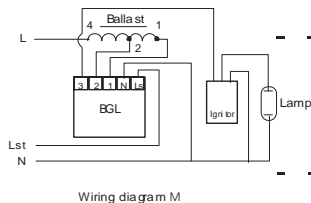
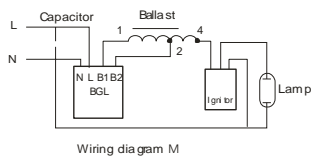
AC: 220V 50Hz

bulb parameters			ballast model	Electrical data											
				start current (A)	working current (A)	Power Factor ()	0.9			Max. operating temp. wiring diagram					
start current (A)	circuit current (A)	capacitor (uF)					loss (W)	power (W)	adapted for ignitor						t Temp. Rise (K)
50	0.61	95	HQ200GGY50L	0.98	0.61	0.44	0.343	0.298	6	9	59	No	70	85	C
80	0.85	115	HQ200GGY80L	1.36	0.85	0.49	0.529	0.460	8	11	91	No	70	85	C
125	1.15	125	HQ200GGY125L	1.84	1.15	0.55	0.807	0.702	10	14	139	No	70	85	C
175	1.50	132	HQ200GGY175L	2.40	1.50	0.58	1.104	0.960	12	15	190	No	70	85	C
250	2.13	132	HQ200GGY250L	3.41	2.13	0.58	1.568	1.364	18	20	270	No	70	85	C
400	3.25	135	HQ200GGY400L	5.20	3.25	0.59	2.463	2.141	25	24	424	No	70	85	C
1000	7.50	145	HQ200GGY1000L	12.00	7.50	0.64	6.098	5.303	60	50	1050	No	80	75	C

Applications: 100W~400W high - pressure sodium lamp



size



- An innovative way of dimming by lowering lamp current while keeping voltage unchanged, it is energy - saving and makes lamps more longer service life.
- It features compact design, excellent performance and durable.
- The energy saving is up to 40%, that extends greatly the service life to 2~3 times compared with that of lamp operated by conventional ballast.
- It completely meets China National Standard GB19510.1 - 2004 and GB 19510.10 - 2004 safety requirements for luminaries.
- An over - heat protector built in ballast, as a very high temperature occurs in ballast, can automatically act to prevent possible burning accident. It can restore to normal working status as the ballast cools down to safety temperature range.
- It is HQ's perfect solution of dimming ballast for the rectifier effect and extends greatly the servicelife of electrical parts in whole gear box.
- The rectifier effect, which occurs when a discharge lamp reaches the end of its service life, can cause the lamp exploding and ballast burning down because of an increase in pretty big portion of DC.
- It performs a high efficiency that completely meets with China National Standard GB19574 - 2004 and EEI requirements of IEC.

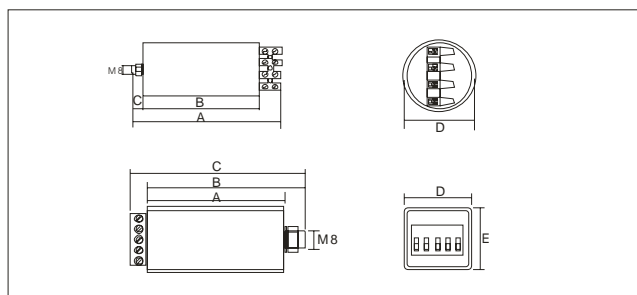
Model	Code	Specifications	Size(mm)					Quantity / carton	Weight / carton	Packaging meas
			a	b	c	d	e	(pcs)	(kg)	(mm)
HQ220050HNG100Z/2	2120236001	220V 50Hz	104	126	64	75	45	6	11	255X150X170
HQ220050HNG150Z/2	2120234001	220V 50Hz	104	126	64	75	45	6	12	255X150X170
HQ220050HNG250Z/2	2120233001	220V 50Hz	108	130	83	96	61	4	18	260X175X170
HQ220050HNG400Z/2	2120232001	220V 50Hz	143	165	83	96	61	4	20	210X190X205

AC: 220V 50Hz

bulb parameters			ballast model	Electrical data											
				Power 1				Power 2							
lamp wattage (W)	lamp current (A)	lamp voltage (V)		lamp (W)	lamp current (A)	loss (W)	power (W)	lamp (W)	lamp current (A)	loss (W)	power (W)	capacitor (uF)	adapted for ignitor	Temp. Rise (K)	Max. operating temp. (°C)
100	1.20	100	HQ220050HNG100Z / 2	100	1.20	14	114	70	1.00	12	82	12	HQCD - 7	70	85
150	1.80	100	HQ220050HNG150Z / 2	150	1.80	20	170	100	1.40	18	118	18	HQCD - 7	70	85
250	3.00	100	HQ220050HNG250Z / 2	250	3.00	25	275	150	2.20	23	173	32	HQCD - 7	70	85
400	4.60	100	HQ220050HNG400Z / 2	400	4.60	33	433	250	3.70	30	280	50	HQCD - 7	70	85

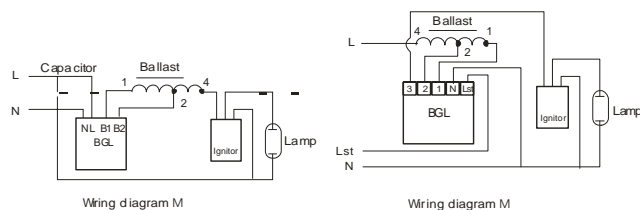
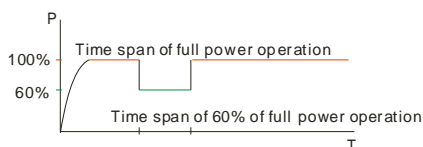


size



Electronic dimming controller, working along with ballast, can provide wattage options for lamp dimming in preset different time span choices. By using the electronic dimming controller, we can shift the lamp wattage in accordance with different field requires of luminance and usage, and save lot of power energy. As an innovative energy-saving lighting product, it is a significant strategy to promote electronic dimming device in lighting industry.

Power Dimming Cycling Mode C:
Full power once voltage supplied - 60% of full power - keeping 60% of full power operation to voltage ending



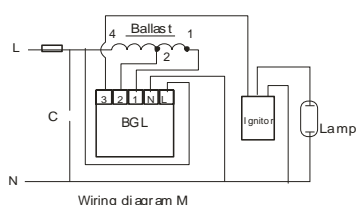
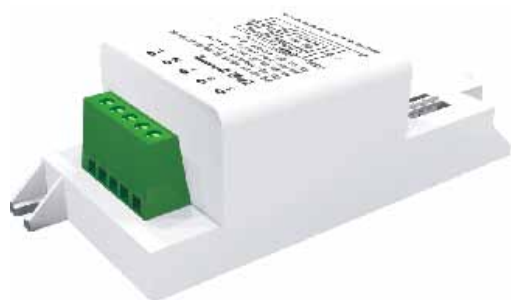
AC: 220 ~ 240V 50/60Hz

Model	Code	Specifications	Mas load current	Case temp ()	Size(mm) a b c d e	Quantity / carton (pcs)	Weight / carton (kg)
HQBGL10 - 5h	2710102001	220 ~ 240V50 ~ 60Hz	10A	85	132 102 10 50 50	50	22
HQBGL10 - L	2720101001	230V 50Hz	10A	80	64 74 82 31 28	100	10

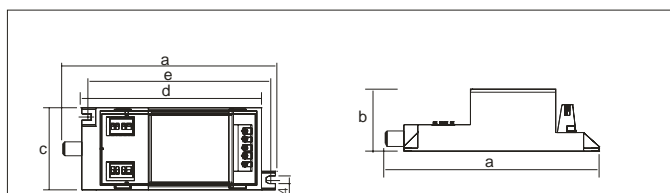
Note:

The supply voltage & frequency for the electronic dimming controller are 220V~240V/50~60Hz.
The dimming time can be preset according to customers ' requires. The max load current is 10A.

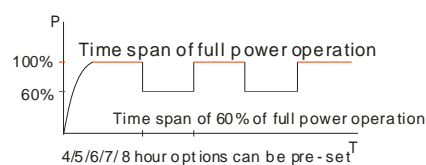
Dimming Controller (Timer type) :



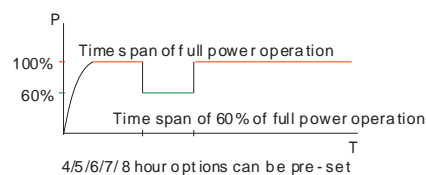
size



Power Dimming Cycling Mode A:
Full power once voltage supplied - 60% of full power - full power - 60% of full power - continuously cycling till voltage ending



Power Dimming Cycling Mode B:
Full power once voltage supplied - 60% of full power - keeping full power operation to voltage ending



Multiple options (5 time span choices of 4/5/6/7/8 hours can be set) for different regions, seasons and road circumstances.
Fuzzy circuit design for the timing. The design can avoid possible traffic problems caused by dimming all road lights at the same moment. (Fuzzy range: ± 6 mins/6hours; Timer will re - time start counting from next applying supply).

By using dimming design, the total lamp energy consumption can be reduced by 40%, and ballast power consumption down by 25%.
Easily to set time choices, and setting can be done in field installation. It can control lamp over a pretty long distance, and is built in the base of the lighting pole, that makes setting change and maintenance very convenient.

-
-
-
-

AC: 220~240V 50/60Hz

Model	Code	Specifications	Max load current	Case temp ()	Size(mm)					Quantity / carton (pcs)	Weight / carton (kg)
					a	b	c	d	e		
HQBGL10-T	27 10103001	220V~240V/50~60Hz	10A	85	115	33	44	95	98	-	-

Notes:

The supply voltage & frequency for the electronic dimming controller are 220V~240V/50~60Hz.
The dimming time span can be set in advance according to customers' demands.
The max load current is 10A.

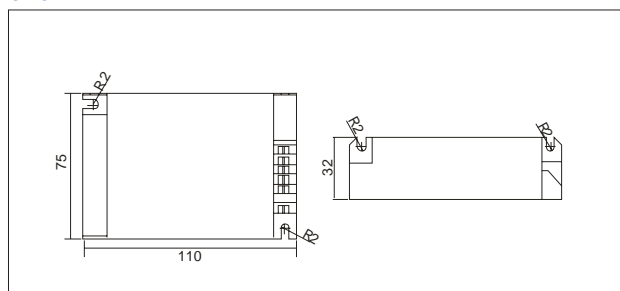
HID Electronic Ballast (Mini Type)



HID Electronic Ballast features:

- Wide range of applications;
- Supply voltage: 220V~240V ac, frequencies: 50/60Hz;
- Anti-voltage-fluctuation;
- A perfect solution to electromagnetic interferences by way of the high frequency output carrying on low frequency load,
- Meet EMC requirements;
- No strobe lights;
- Improve light quality greatly, and enhance light efficiency by over 10%;
- Good for special applications like photography;
- Save a lot of energy over 30%, and extend the lamp service life greatly;
- Many safety designs of short circuit, open circuit, over-voltage, lack-voltage and overflow protection;
- Good heat resistance performance under tough operating conditions with $T_c=80$;
- Small size, light weight, low noise, low temperature rise, suitable for a variety of applications;
- Easy to install and convenient to maintain;
- CQC and CB-certified.

size



datasheet

AC: 220~240V 50/60Hz $T_c:80$

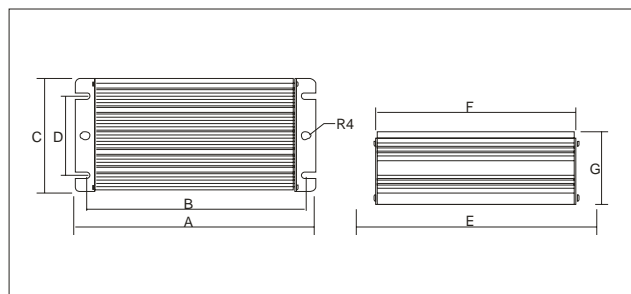
Ballast										Lamp
Model	Code	In(A)	LCCF	THDI%	Ta()	Quantity/carton (pcs)	Weight/carton (kg)	Dimensions (mm)		Lamp
HQEB-70/A	2170904106	>0.95	0.34~0.36	1.3	12	-20~+50	40	11.8	380x280x220	70W MH/HPS
HQEB-MH35/A	2170902105	>0.95	0.19~0.22	1.3	12	-20~+50	40	11.8	380x280x220	35W MH
HQEB-MH20/A	2170901103	>0.95	0.10~0.12	1.3	12	-20~+50	40	11.8	380x280x220	20W MH



HID Electronic Ballast features:

- Wide range of applications;
- Supply voltage: 220V~240V ac, frequencies: 50/60Hz;
- Anti - voltage - fluctuation;
- A perfect solution to electromagnetic interferences by way of the high frequency output carrying on low frequency load,
- Meet EMC requirements ;
- No strobe lights;
- Improve light quality greatly, and enhance light efficiency by over 10%;
- Good for special applications like photography;
- Save a lot of energy over 30%, and extend the lamp service life greatly ;
- Many safety designs of short circuit, open circuit, over - voltage, lack - voltage and overflow protections;
- Good heat resistance performance under tough operating conditions with $T_c=80$;
- Small size, light weight, low noise, low temperature rise, suitable for a variety of applications;
- Easy to install and convenient to maintain;

size



data sheet

data sheet

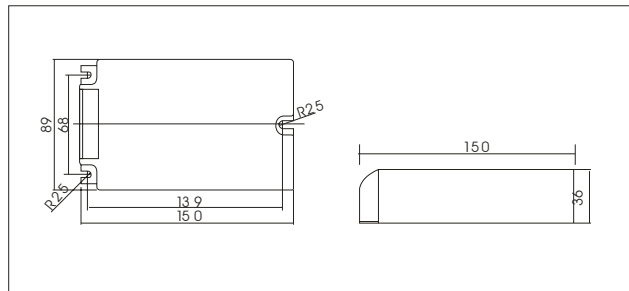
AC: 220~240V 50/60Hz Tc:70														
Ballast													Lamp	
Model	Code	In(A)	LCCF	THDI%	Ta()	Size (mm)								Lamp
						A	B	C	D	E	F	G		
HQEB- MH250	—	>0.95	1.22	1.5	10	-20~+50	227	205	102	68	227	187	70.5	250W MH
HQEB- HPS250	—	>0.95	1.22	1.5	10	-20~+50	227	205	102	68	227	187	70.5	250W HPS
HQEB- MH400	—	>0.95	1.95	1.5	10	-20~+50	260	238	102	68	260	220	70.5	400W MH
HQEB- HPS400	—	>0.95	1.95	1.5	10	-20~+50	260	238	102	68	260	220	70.5	400W HPS



HID Electronic Ballast features:

- Wide range of applications;
- Supply voltage: 220V~240V ac, frequencies: 50/60Hz;
- Anti-voltage-fluctuation;
- A perfect solution to electromagnetic interferences by way of the high frequency output carrying on low frequency load,
- Meet EMC requirements;
- No strobe lights;
- Improve light quality greatly, and enhance light efficiency by over 10%;
- Good for special applications like photography;
- Save a lot of energy over 30%, and extend the lamp service life greatly;
- Many safety designs of short circuit, open circuit, over-voltage, lack-voltage and overflow protections;
- Good heat resistance performance under tough operating conditions with $T_c = 80$;
- Small size, light weight, low noise, low temperature rise, suitable for a variety of applications;
- Easy to install and convenient to maintain;
- CQC and CB-certified.

size



data sheet

AC: 220~240V 50/60Hz $T_c: 80$

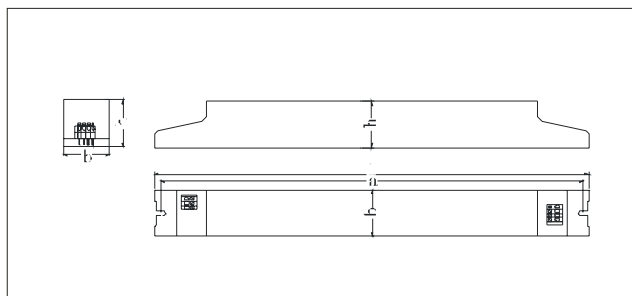
Ballast										Lamp
Model	Code	In(A)	LCCF	THDI%	Ta()	Quantity/carton (pcs)	Weight/carton (kg)	Packaging meas (mm)		Lamp
HQEB-MH175	2170910001	>0.95	0.83	1.3	9	-20~+50	24	11.4	340x215x275	175W MH
HQEB-150	2170909001	>0.95	0.71	1.3	9	-20~+50	24	11.4	340x215x275	150W MH/HPS
HQEB-100	2170906001	>0.95	0.48	1.3	10	-20~+50	24	11.4	340x215x275	100W MH/HPS



Electronic Ballast for FL features:





- Wide range of applications;
- Supply voltage: 200V~240V AC, Frequency: 50/60Hz;
- average life is 20000 hours;
- Good heat resistance performance with $T_c=65$;
- Adopting metal housing, power spraying on surface, fire proof, humidity proof, magnetic proof, explosion proof;
- Small size, light weight, low noise, low temperature rise, suitable for a variety of applications;
- Easy to install and convenient to maintain;

size



data sheet

AC: 200~240V 50/60Hz

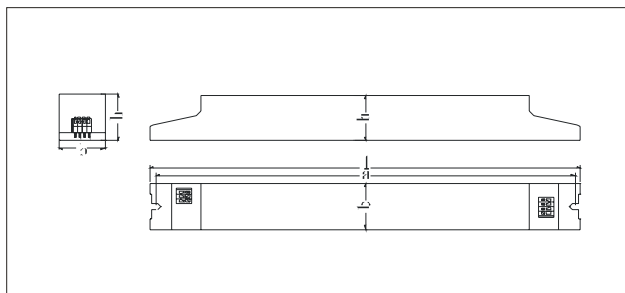
Ballast												Lamp
Model	Code	In(mA)	Un(V)	Fn(Hz)	Ta()	Tc()					Lamp	
HQEB230YZ35-1T5J	2171102003	0.97	165	230	50/60	-10~+50	65	290	30	19	280	35W
HQEB230YZ28-1T5J	2171146003	0.97	131	230	50/60	-10~+50	65	290	30	19	280	28W
HQEB230YZ21-1T5J	2171144004	0.97	102	230	50/60	-10~+50	65	290	30	19	280	21W
HQEB230YZ14-1T5J	2171142003	0.97	68	230	50/60	-10~+50	65	290	30	19	280	14W



Electronic Ballast for FL features:

- Wide range of applications;
- Supply voltage: 180V~260V AC, Frequency: 50/60Hz. Good resistance of voltage - fluctuation;
- A perfect solution to electromagnetic interferences by way of high frequency output carrying on low frequency load;
- Meet EMC requirements. No strobe lights. Improve light quality greatly, and enhance light efficiency. Energy saving;
- Low power loss. Extend lamp service life by 50%; Steady and reliable operation. Average life 30000 hours;
- Designs for end of lamp life protection and abnormal condition protection;
- Good heat resistance performance with $T_c=65$. Adopting a special potting material for ballast, which could enhance heat dissipation, humidity proof, fire proof, explosion proof.
- Small size, light weight, low noise, low temperature rise, and suitable for a variety of applications;
- Easy to install and convenient to maintain;
- CCC - certified.





size



Data sheet

Data sheet

AC: 180~260V 50/60Hz

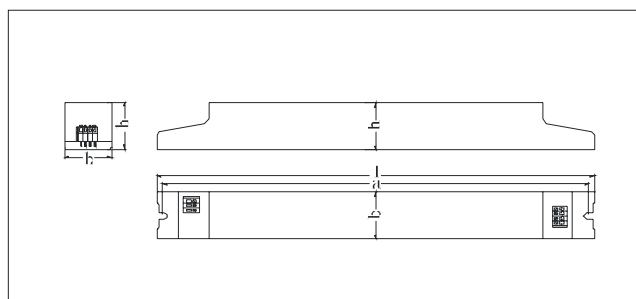
Ballast												Lamp
Model	Code	In(mA)	Un(V)	Fn(Hz)	Ta()	Tc()					Lamp	
HQEB230YZ18- 1T8B	2171143001	0.98	84	230	50/60	-10~+50	65	290	30	30	280	18W
HQEB230YZ36- 1T8B	2171148001	0.98	165	230	50/60	-10~+50	65	360	30	30	350	36W
HQEB230YZ58- 1T8B	2171150001	0.98	260	230	50/60	-10~+50	65	360	30	30	350	58W
HQEB230YZ18- 2T8B	2171143002	0.98	168	230	50/60	-10~+50	65	360	30	30	350	18Wx2
HQEB230YZ36- 2T8B	2171148002	0.98	323	230	50/60	-10~+50	65	360	30	30	350	36Wx2



Electronic Ballast for FL features:





- Wide range of applications;
- Supply voltage: 200V~240V AC, Frequency: 50/60Hz;
- average life is 20000 hours;
- Good heat resistance performance with $T_c=65$;
- Adopting metal housing, power spraying on surface, fire proof, humidity proof, magnetic proof, explosion proof;
- Small size, light weight, low noise, low temperature rise, suitable for a variety of applications;
- Easy to install and convenient to maintain;

size



data sheet

AC: 200~240V 50/60Hz

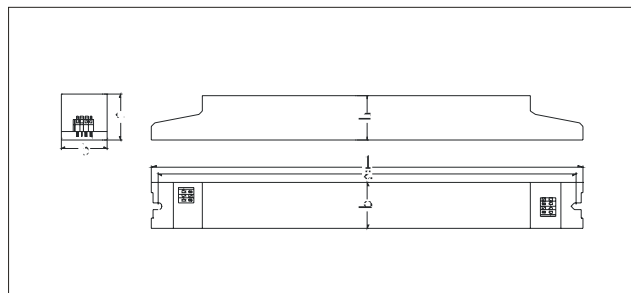
Ballast											Lamp	
Model	Code	In(mA)	Un(V)	Fn(Hz)	Ta()	Tc()					Lamp	
HQEB230YZ18-1T8J	2171143003	0.90	86	230	50/60	-10~+50	65	290	30	19	280	18W
HQEB230YZ36-1T8J	2171148003	0.90	172	230	50/60	-10~+50	65	290	30	19	280	36W
HQEB230YZ18-2T8J	2171143004	0.90	185	230	50/60	-10~+50	65	360	30	30	350	18Wx2
HQEB230YZ36-2T8J	2171148004	0.90	350	230	50/60	-10~+50	65	360	30	30	350	36Wx2



Electronic Ballast for FL features

- Wide range of applications;
- Supply voltage: 180V~260V AC, Frequency: 50/60Hz. Good resistance of voltage - fluctuation;
- A perfect solution to electromagnetic interferences by way of high frequency output carrying on low frequency load ;
- Meet EMC requirements. No strobe lights. Improve light quality greatly, and enhance light efficiency. Energy saving;
- Low power loss. Extend lamp service life by 50%; Steady and reliable operation. Average life 30000 hours;
- Designs for end of lamp life protection and abnormal condition protection;
- Good heat resistance performance with $T_c=65^\circ\text{C}$. Adopting a special potting material for ballast, which could enhance heat dissipation, humidity proof, fire proof, explosion proof.
- Small size, light weight, low noise, low temperature rise, and suitable for a variety of applications;
- Easy to install and convenient to maintain;
- CCC -certified.





size



Data sheet

Data sheet

AC: 180~260V 50/60Hz

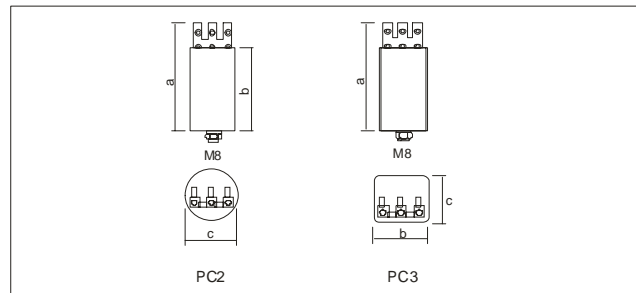
Ballast											Lamp	
Model	Co de	In (mA)	Un(V)	Fn(Hz)	Ta()	Tc()					Lamp	
HQEB230YZ54 -1T5B	2171162001	0.98	242	230	50/60	-10~+50	65	360	30	30	350	54W
HQEB230YZ35 -1T5B	2171102001	0.98	160	230	50/60	-10~+50	65	360	30	30	350	35W
HQEB230YZ28 -1T5B	2171146001	0.98	128	230	50/60	-10~+50	65	360	30	30	350	28W
HQEB230YZ21 -1T5B	2171144001	0.98	98	230	50/60	-10~+50	65	290	30	30	280	21W
HQEB230YZ14 -1T5B	2171142001	0.98	65	230	50/60	-10~+50	65	290	30	30	280	14W
HQEB220YZ35 -2T5B	2171102002	0.98	314	230	50/60	-10~+50	65	360	30	30	350	35W x2
HQEB220YZ28 -2T5B	2171146002	0.98	258	230	50/60	-10~+50	65	360	30	30	350	28W x2
HQEB220YZ21 -2T5B	2171144003	0.98	195	230	50/60	-10~+50	65	360	30	30	350	21W x2
HQEB220YZ14 -2T5B	2171142002	0.98	125	230	50/60	-10~+50	65	360	30	30	350	14W x2



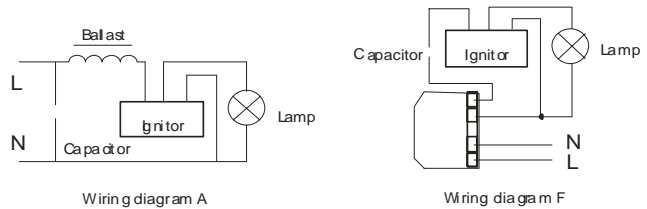
HID Electronic Ignitor



size



Huaquan brand electronic ignitors are designed and manufactured in accordance with IEC standard. The ignitors are CE, CQC certified and have passed the IEC performance and structure safety tests. The wide range of HQ's ignitor models can meet the demands of starting various lamps. Its high heat endurance allows a maximum case temperature as high as 105 degree ($t_c = 105^\circ$). This excellent performance lets ignitor to operate well in a tough working condition.



技术参数 data sheet

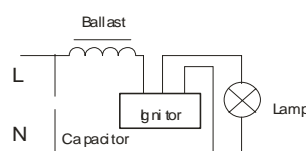
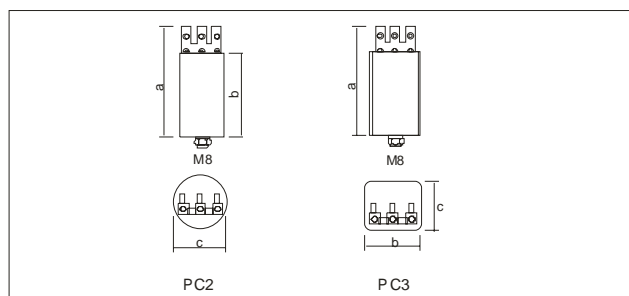
TC: 105

Ballast							Lamp			
Model	Co de	Supply vdtage (v/Hz)	Pulse range (kv)	Load ca pacitance (PF)	Max current (A)	Size(mm) Fig a b c	(W) Lamp	(V) lamp tube voltage	wiring diag ram	
HQCD - 7L(塑壳)	2220401003	220-240V 50/60Hz	3.5~4	20~100	1.8	Pc3 68 32 29	HPS/MH 35~150	80~150	A	
HQCD - 7	2220402005	220-240V 50/60Hz	4~5	20~100	5	Pc2 82 65 35	HPS/MH 35~400	80~150	A	
HQIG - NG(塑壳)	2220401015	220-240V 50/60Hz	4~5	20~100	5	Pc3 82 32 29	HPS/MH 35~400	80~150	A/ F	
HQIG - NGL(塑壳)	2220402011	220-240V 50/60Hz	2.8~3.5	20~100	6	Pc3 82 32 29	HPS/MH 70~400	80~150	A/ F	

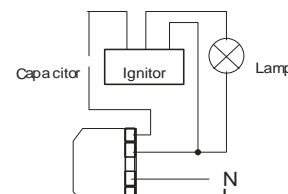


Huaquan brand electronic ignitors are designed and manufactured in accordance with IEC standard. The ignitors are CE, CQC certified and have passed the IEC performance and structure safety tests. The wide range of HQ's ignitor models can meet the demands of starting various lamps. Its high heat endurance allows a maximum case temperature as high as 105 degree ($t_c = 105^\circ$). This excellent performance lets ignitor to operate well in a tough working condition.

size



Wiring diagram A

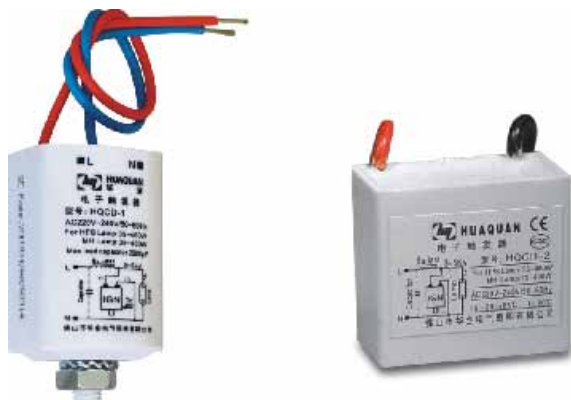


Wiring diagram F

data sheet

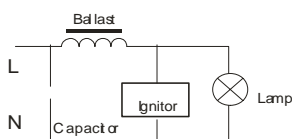
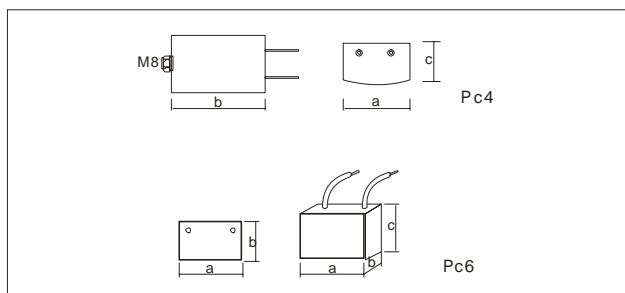
TC: 105

Ballast							Lamp		
Model	Code	Supply voltage (v/Hz)	Pulse range (kv)	Load capacitance (PF)	Max current (A)	Size(mm) Fig a b c	(W) lamp	(V) lamp tube voltage	wiring diagram
HQCD-7(塑壳)	2220401181	220-240V 50/60Hz	4~5	20~100	5	Pc3 82 32 29	HPS/MH 35~400	80~150	A/F
HQIG-NG	2220402223	220-240V 50/60Hz	4~5	20~100	5	Pc2 82 65 35	HPS/MH 35~400	80~150	A/F
HQIG-N	2220402222	220-240V 50/60Hz	4~5	20~100	12	Pc3 95 75 50	HPS 600~1000 MH 575~1000	80~150	A/F



Huaquan brand electronic ignitors are designed and manufactured in accordance with IEC standard. The ignitors are CE, CQC certified and have passed the IEC performance and structure safety tests. The wide range of HQ's ignitor models can meet the demands of starting various lamps. Its high heat endurance allows a maximum case temperature as high as 105 degree (tc = 105 °C). This excellent performance lets ignitor to operate well in a tough working condition.

size



Wiring diagram B

Data sheet

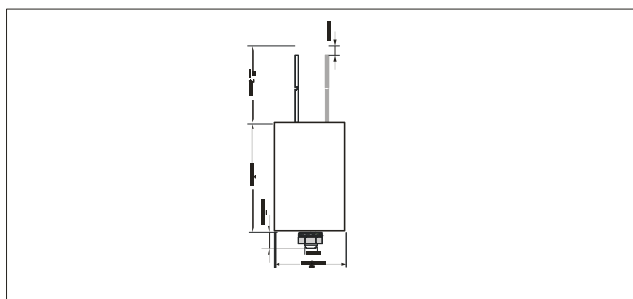
TC: 105

Ballast							Lamp			
Model	Code	Supply voltage (v/Hz)	Pulse range (kv)	Load capacitance (PF)	Max current (A)	Size(mm) Fig a b c	(W) Lamp	(V) Lamp tube voltage	wiring diagram	
HQCD - 1	22104010 04	220 ~ 240V 50/60Hz	3.0 ~ 5	20 ~ 1000	-	Pc4 35 52 25	HPS/MH 35 ~ 400	80 ~ 150	B	
HQCD - 2	22104040 01	220 ~ 240V 50/60Hz	3.5 ~ 5	20 ~ 1000	-	Pc6 41 26 37	HPS 35 ~ 400 MH 70 ~ 400	80 ~ 150	B	
HQCD - 3	22104010 06	220 ~ 240V 50/60Hz	4 ~ 6	20 ~ 1000	-	Pc6 40 63 59 27 43	HPS 35 ~ 1K MH 70 ~ 1K	80 ~ 150	B	



- High temperature endurance with $T_c: 100^{\circ}\text{C}$.
- Vacuum - impregnated with Oleoresin, good air - tight, stable performance and long service life;
- Built - in discharge resistor to avoid electric shock.
- Pass the tests of IEC61049 performance and configuration, CQC and CE certified.
- Wiring mode:
Capacitor with lead lines (Lead - line capacitor).

size



data sheet

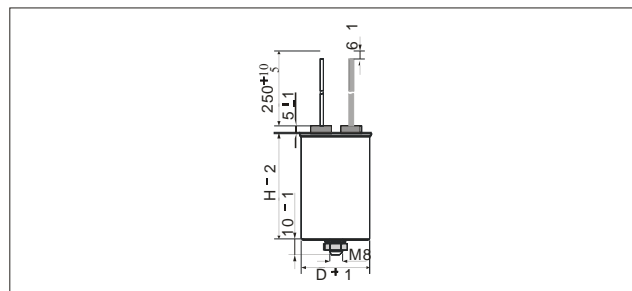
 $T_c: -40 \sim 100^{\circ}\text{C}$

Model	Code	capacitance	rated voltage	diameter D	Height H	(mm) Mounting screw	() Case temp.
HQCC-6/P	2320204201	6	250V/50~60Hz	30	60	M8	100
HQCC-8/P	2320206201	8	250V/50~60Hz	30	60	M8	100
HQCC-9.5/P	2320208201	9.5	250V/50~60Hz	35	80	M8	100
HQCC-10/P	2320209201	10	250V/50~60Hz	35	80	M8	100
HQCC-12/P	2320211234	12	250V/50~60Hz	35	80	M8	100
HQCC-18/P	2320217242	18	250V/50~60Hz	35	80	M8	100
HQCC-20/P	2320219201	20	250V/50~60Hz	45	80	M8	100
HQCC-25/P	2320224201	25	250V/50~60Hz	45	80	M8	100
HQCC-28/P	2320226201	28	250V/50~60Hz	45	80	M8	100
HQCC-30/P	2320228201	30	250V/50~60Hz	45	80	M8	100
HQCC-32/P	2320230201	32	250V/50~60Hz	45	80	M8	100
HQCC-35/P	2320233201	35	250V/50~60Hz	45	80	M8	100
HQCC-40/P	2320236201	40	250V/50~60Hz	50	90	M8	100
HQCC-50/P	2320241201	50	250V/50~60Hz	50	90	M8	100
HQCC-60/P	2320243201	60	250V/50~60Hz	55	90	M8	100



- High temperature endurance with $T_c: 105^\circ\text{C}$.
- Vacuum-impregnated with Oleo resin, good air-tight, stable performance and long service life;
- Built-in discharge resistor to avoid electric shock.
- Pass the tests of IEC61049 performance and configuration, CQC and CE certified.
- Wiring mode:
Capacitor with lead lines (Lead-line capacitor).

size



Data sheet

 $T_c: -40 \sim 105^\circ\text{C}$

Model	Code	capacitance	rated voltage	diameter D	Height H	(mm) Mounting screw	() Case temp.
HQCS - 9.5	231 0708 001	9.5	540V/50~60Hz	45	80	M8	105
HQCS - 10	231 0709 001	10	540V/50~60Hz	45	80	M8	105
HQCS - 12	231 0711 001	12	540V/50~60Hz	45	90	M8	105
HQCS - 13	2310712001	13	540V/50~60Hz	45	90	M8	105
HQCS - 15	2310714001	15	540V/50~60Hz	45	90	M8	105
HQCS - 18	2310717001	18	540V/50~60Hz	50	90	M8	105
HQCS - 22	2310721001	22	540V/50~60Hz	50	100	M8	105
HQCS - 25	2310724001	25	540V/50~60Hz	55	100	M8	105
HQCS - 26	2310725001	26	540V/50~60Hz	55	100	M8	105
HQCS - 28	2310726001	28	540V/50~60Hz	55	100	M8	105
HQCS - 30	2310728001	30	540V/50~60Hz	55	110	M8	105
HQCS - 32	2310730001	32	540V/50~60Hz	55	110	M8	105
HQCS - 35	2310733001	35	540V/50~60Hz	60	100	M10	105
HQCS - 41	2310737001	41	540V/50~60Hz	60	110	M10	105





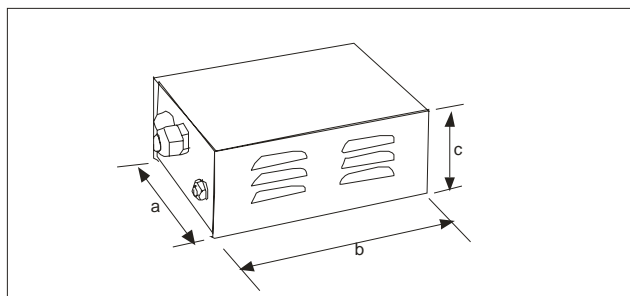
HID Gear Box series



HID gearbox for indoor lighting features:

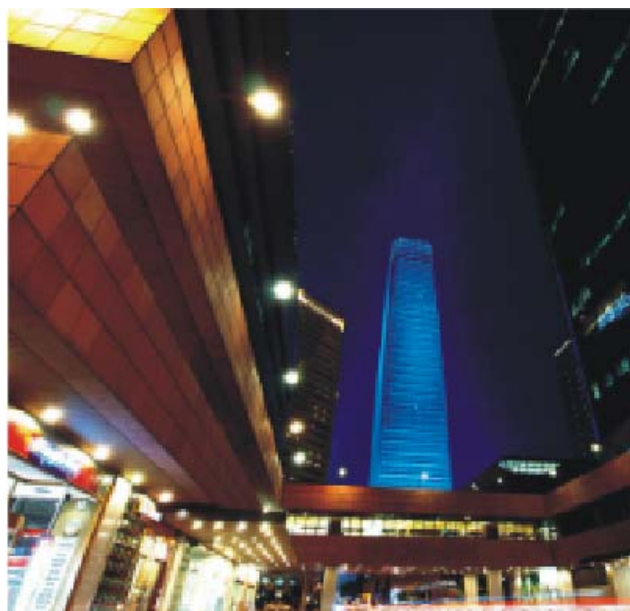
- Small size;
- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: - 25 ~ 50 ;
- Anodizing iron casing and plastic spurs coating for anti - corrosion;
- Easy to maintain with fuse on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

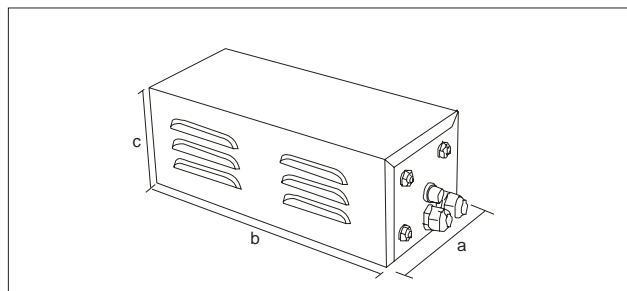
Ballast								Lamp		
Model	Code	Su pply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
					a	b	c			
HQBN-35L/A	2420202006	220V 50Hz	0.2 17	0.9	131	197	72	HPS/MH	0.53	35
HQBN-50L/A	2420203001	220V 50Hz	0.2 98	0.9	131	197	72	HPS/MH	0.76	50
HQBN-70L/A	2420204009	220V 50Hz	0.4 19	0.9	131	197	72	HPS/MH	0.98	70
HQBN-100L/A	2420206003	220V 50Hz	0.5 76	0.9	131	197	72	HPS/MH	1.20	100
HQBN-150L/A	2420209008	220V 50Hz	0.8 59	0.9	131	197	72	HPS/MH	1.80	150
HQBG-175L/A	2420310001	220V 50Hz	0.9 60	0.9	131	197	72	MH	1.50	175
HQBG-250L/A	2420312002	220V 50Hz	1.3 64	0.9	131	197	72	MH	2.13	250



HID gear box for indoor lighting features:

- Small size;
- Excellent stable performance, long service life;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: $-25 \sim 50$;
- Anodizing iron casing and plastic spurts coating for anti-corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

Ballast								Lamp		
Model	Code	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
					a	b	c			
HQBG - 250L/B	24203 12001	220V 50Hz	1.364	0.9	126	295	111	MH	2.13	250
HQBG - 400L/B	24203 17001	220V 50Hz	2.141	0.9	126	295	111	MH	3.25/3.40	400
HQBN - 250L/B	24202 12001	220V 50Hz	1.389	0.9	126	295	111	HPS/MH	3.00	250
HQBN - 400L/B	24202 17001	220V 50Hz	2.192	0.9	126	295	111	HPS/MH	4.60	400
HQBN - 600L/B	24202 19001	220V 50Hz	3.258	0.9	126	295	111	HPS/MH	6.20	600
HQBJ - 175L/B	24204 10001	220V 50Hz	1.050	0.9	126	295	111	MH	1.50	175
HQBJ - 250L/B	24204 12001	220V 50Hz	1.460	0.9	126	295	111	MH	2.15	250

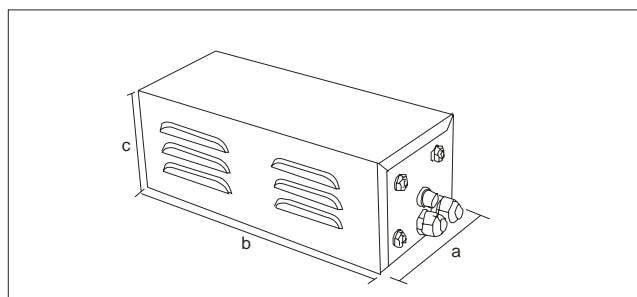
HID Gear Box for Indoor Lighting



HID gearbox for indoor lighting features:

- Small size;
- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25 ~ 50 ;
- Anodizing iron casing and plastic spurts coating for anti-corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

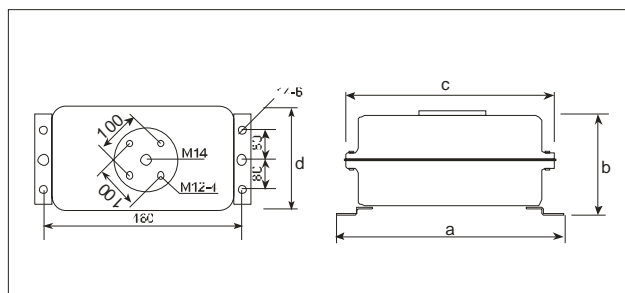
Ballast								Lamp		
Model	Code	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
					a	b	c			
HQBG-1000L/C	24203220 01	220V 50Hz	5.303	0.9	165	355	125	MH	8.25	1000
HQBN-1000L/C	24202220 01	220V 50Hz	5.404	0.9	165	355	125	HPS/MH	10.30/9.50	1000
HQBJ-400L/C	24204170 01	220V 50Hz	2.280	0.9	165	355	125	MH	3.25	400
HQBJ-1000L/C	24204220 01	220V 50Hz	5.200	0.9	165	355	125	MH	4.10	1000
HQBJ-1500L/C	24204240 01	220V 50Hz	7.100	0.9	185	360	145	MH	6.20	1500



HID gearbox for indoor lighting features:

- Small size;
- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25 ~ 50 ;
- Anodizing iron casing and plastic spurs coating for anti - corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



data sheet

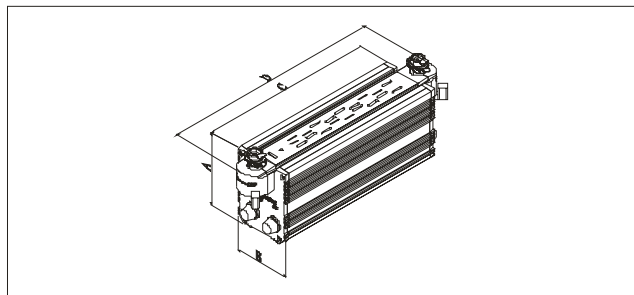
Ballast						Lamp		
Model	Code	Supply voltage (v/Hz)	input factor (A)	power factor cos	Size(mm) a b c d	bulb type	tube current	tube power
HQBN- 1000L/E	2420222002	220V 50Hz	5.404	0.9	500 210 455 280	HPS/MH	10.30/9.50	1000
HQBG- 1000L/E	2420322002	220V 50Hz	5.303	0.9	500 210 455 280	MH	7.50/8.25	1000
HQBG- 1800L/E	2420325002	220V 50Hz	9.697	0.9	500 210 455 280	MH	17.30	1800
HQBG- 2000L/E	2420326002	380V 50Hz	5.850	0.9	500 210 455 280	MH	10.30	2000
HQBJ- 1000L/E	2420422002	220V 50Hz	5.200	0.9	500 210 455 280	MH	4.20	1000
HQBJ- 1500L/E	2420424002	220V 50Hz	7.100	0.9	500 210 455 280	MH	6.20	1500



HID gearbox for indoor lighting features:

- Small size;
- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: $-25^{\circ}\text{C} \sim 50^{\circ}\text{C}$;
- Anodizing iron casing and plastic spurts coating for anti-corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

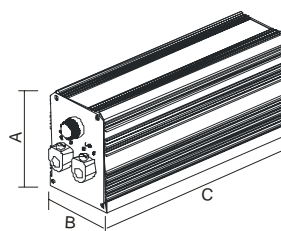
Ballast									Lamp		
Model	Code	Supply voltage (v/Hz)	input current (A)	Power factor cos	Size(mm)				bulb type	tube current	tube power
					a	b	c	c			
HQBN-35L-F	2430202002	220V 50Hz	0.217	0.9	79.5	60	190	240	MH	0.53	35
HQBN-50L-F	2430203002	220V 50Hz	0.298	0.9	79.5	60	190	240	MH	0.76	50
HQBN-70L-F	2430204002	220V 50Hz	0.419	0.9	79.5	60	190	240	MH	0.98	70
HQBN-100L-F	2430206002	220V 50Hz	0.576	0.9	79.5	60	190	240	MH	1.20	100
HQBN-150L-F	2430209002	220V 50Hz	0.859	0.9	79.5	60	190	240	MH	1.80	150



HID gearbox for indoor lighting features:

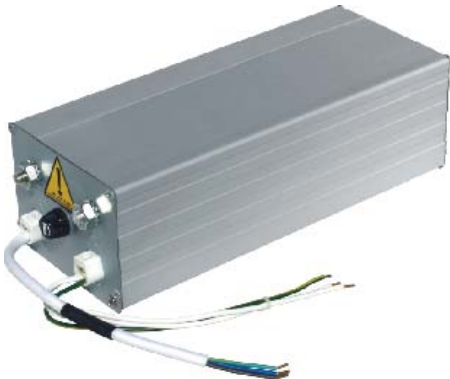
- Small size;
- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25 ~50 ;
- Anodizing iron casing and plastic spurts coating for anti - corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

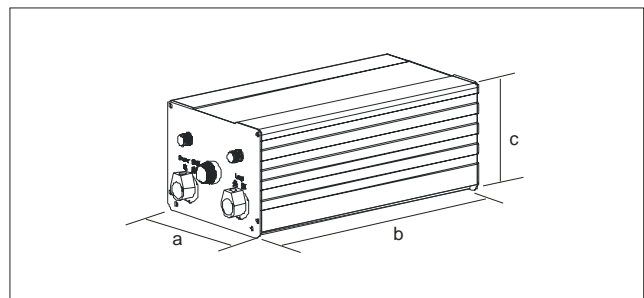
Ballast								Lamp		
Model	Code	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
					a	b	c			
HQBN-35L- F1	2430202601	220V 50Hz	0.2 17	0.9	80	60	180	MH	0.53	35
HQBN-50L- F1	2430203601	220V 50Hz	0.2 98	0.9	80	60	180	MH	0.76	50
HQBN-70L- F1	2430204601	220V 50Hz	0.4 19	0.9	80	60	180	MH	0.98	70
HQBN-100L- F1	2430206601	220V 50Hz	0.5 76	0.9	80	60	214	MH	1.20	100
HQBN-150L- F1	2430209601	220V 50Hz	0.8 59	0.9	80	60	214	MH	1.80	150



HID gearbox for indoor lighting features:

- Small size;
- Excellent stable performance, long service life;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: $-25 \sim 50$;
- Anodizing iron casing and plastic spurts coating for anti-corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

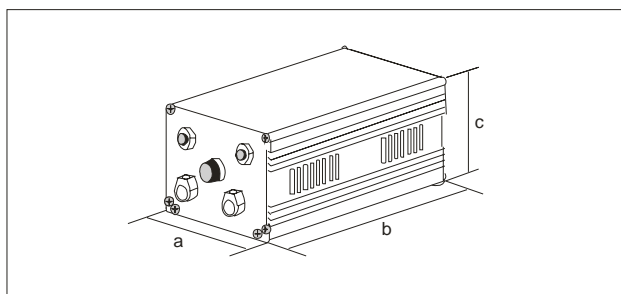
Ballast							Lamp		
Model	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
				a	b	c			
HQBN - 35L/G	220V 50Hz	0.217	0.9	99	190	76	HPS/MH	0.53	35
HQBN - 70L/ G	220V 50Hz	0.419	0.9	99	190	76	HPS/MH	0.98	70
HQBN - 150L/G	220V 50Hz	0.859	0.9	99	190	76	HPS/MH	1.80	150



HID gearbox for in door lighting features:

- Small size;
- Excellent stable performance, long service life;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: $-25 \sim 50$;
- Anodizing iron casing and plastic spurts coating for anti-corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

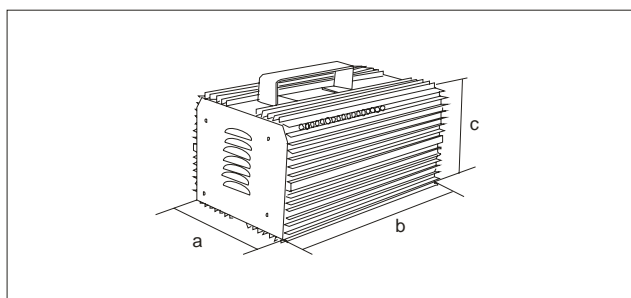
Ballast								Lamp		
Model	Code	Supply voltage (V/Hz)	input current (A)	power factor cos	Size (mm)			bulb type	tube current	tube power
					a	b	c			
HQBN - 35L/G1	2430202004	220V 50 Hz	0.2 17	0.9	99	190	76	HPS/MH	0.53	35
HQBN - 70L/G1	2430204019	220V 50 Hz	0.4 19	0.9	99	190	76	HPS/MH	0.98	70
HQBN - 150L/G1	2430209006	220V 50 Hz	0.8 59	0.9	99	190	76	HPS/MH	1.80	150



HID gearbox for indoor lighting features:

- Small size;
- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25 ~ 50 ;
- Anodizing iron casing and plastic spurts coating for anti - corrosion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

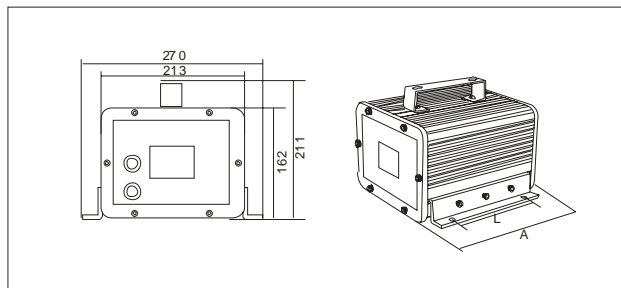
Ballast								Lamp		
Model	Code	Supply voltage (V/Hz)	input factor (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
					a	b	c			
HQBO - 400L/H	2440917020	120V60Hz	4.0	0.9	196	330	196	MH	3.5	400
HQBO - 1000L/H	2440922020	120V60Hz	9.5	0.9	196	330	196	MH	4.1	1000
HQBN - 400L/H	2440217020	120V60Hz	4.0	0.9	196	330	196	HPS	4.6	400
HQBN - 600L/H	2440219020	120V60Hz	6.0	0.9	196	330	196	HPS	6.2	600
HQBN - 1000L/H	2440222020	120V60Hz	9.5	0.9	196	330	196	HPS	4.7	1000



Gearbox for outdoor lighting features:

- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25 ~ 50 ;
- Alloy casing structure, excellent IP65 and heat dissipation function ;
- Easy to maintain with fuse on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

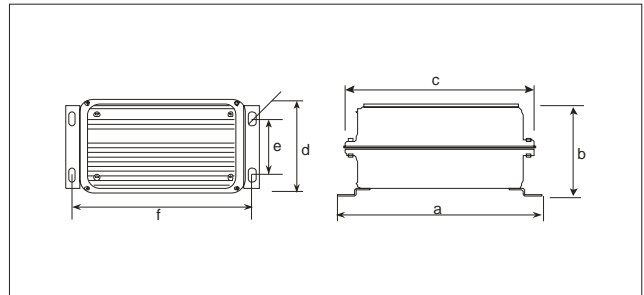
Ballast					Lamp			
Model	Code	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)	bulb type	tube current	tube power
					A			
HQBN-70L-K	-	220V 50Hz	0.419	0.9	284	HPS/MH	0.98	70
HQBN-100L-K	-	220V 50Hz	0.576	0.9	284	HPS/MH	1.20	100
HQBN-150L-K	-	220V 50Hz	0.859	0.9	284	HPS/MH	1.80	150
HQBN-250L-K	-	220V 50Hz	1.389	0.9	284	HPS/MH	3.00	250
HQBN-400L-K	-	220V 50Hz	2.192	0.9	284	HPS/MH	4.60	400
HQBN-600L-K	-	220V 50Hz	3.258	0.9	284	HPS/MH	6.20	600
HQBN-1000L-K	-	220V 50Hz	5.404	0.9	434	HPS/MH	10.30/9.50	1000
HQBO-1500L-K	-	380V 50Hz	4.610	0.9	434	MH	6.20	1500
HQBO-2000L-K	-	380V 50Hz	5.850	0.9	434	MH	10.30	2000



Gearbox for outdoor lighting features:

- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25 ~ 50 ;
- Alloy casing structure, excellent IP65 and heat dissipation function ;
- Easy to maintain with fuse on case;
- Output leads with high heat and high voltage resistance , input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

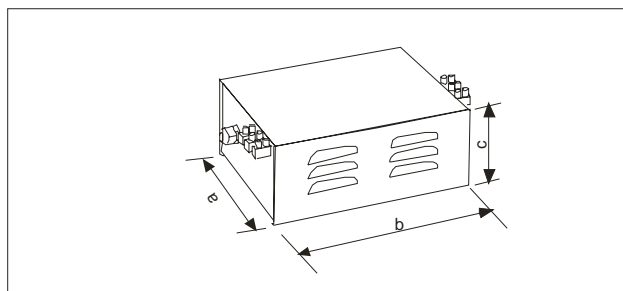
Ballast											Lamp		
Model	Code	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)						bulb type	tube current	tube power
					a	b	c	d	e	f			
HQBN-70L-L	-	220V 50Hz	0.402	0.9	300	170	267	200	130	280	HPS/MH	0.98	70
HQBN-100L-L	-	220V 50Hz	0.550	0.9	300	170	267	200	130	280	HPS/MH	1.20	100
HQBN-150L-L	-	220V 50Hz	0.810	0.9	300	170	267	200	130	280	HPS/MH	1.80	150
HQBN-250L-L	-	220V 50Hz	1.320	0.9	300	170	267	200	130	280	HPS/MH	2.13	250
HQBN-400L-L	-	220V 50Hz	2.090	0.9	300	170	267	200	130	280	HPS/MH	4.60	400



HID gearbox for indoor lighting features:

- Small size;
- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25 ~ 50 ;
- Anodizing iron casing and plastic spurts coating for anti -corro sion;
- Easy to maintain with fuses on case;
- Output leads with high heat and high volta ge resistance , input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

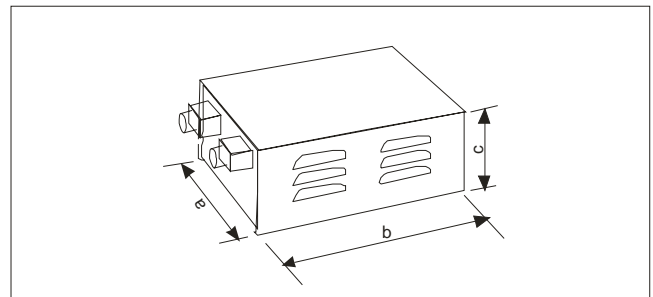
Ballast								Lamp		
Model	Code	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
					a	b	c			
HQBN-35L-S	2420202005	220V 50Hz	0.217	0.9	110	165	57	HPS/MH	0.53	35
HQBN-50L-S	2420203003	220V 50Hz	0.298	0.9	110	165	57	HPS/MH	0.76	50
HQBN-70L-S	2420204008	220V 50Hz	0.419	0.9	110	165	57	HPS/MH	0.98	70
HQBN-100L-S	2420206002	220V 50Hz	0.576	0.9	110	165	57	HPS/MH	1.20	100
HQBN-150L-S	2420209001	220V 50Hz	0.859	0.9	110	165	57	HPS/MH	1.80	150



Gearbox for outdoor lighting features:

- Excellent stable performance, long service life;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: -25°C ~ 50°C ;
- Alloy casing structure, excellent IP65 and heat dissipation function ;
- Easy to maintain with fuse on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

Ballast							Lamp		
Model	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tubepower
				a	b	c			
HQBN-35L-S1	220V 50Hz	0.217	0.9	110	165	69	HPS/MH	0.53	35
HQBN-50L-S1	220V 50Hz	0.298	0.9	110	165	69	HPS/MH	0.76	50
HQBN-70L-S1	220V 50Hz	0.419	0.9	110	165	69	HPS/MH	0.98	70
HQBN-100L-S1	220V 50Hz	0.576	0.9	110	165	69	HPS/MH	1.20	100
HQBN-150L-S1	220V 50Hz	0.859	0.9	110	165	69	HPS/MH	1.80	150

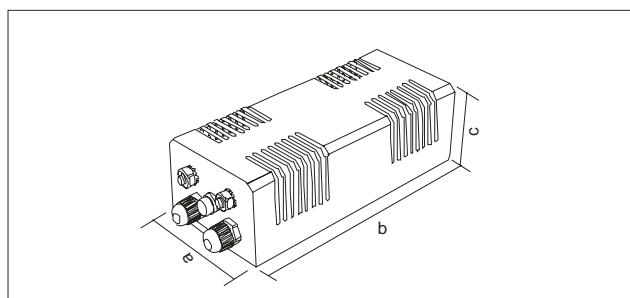
HID Gear Box for Indoor Lighting



Gearbox for outdoor lighting features:

- Excellent stable performance, long service life ;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: - 25 ~ 50 ;
- Alloy casing structure, excellent IP65 and heat dissipation function ;
- Easy to maintain with fuse on case;
- Output leads with high heat and high voltage resistance , input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

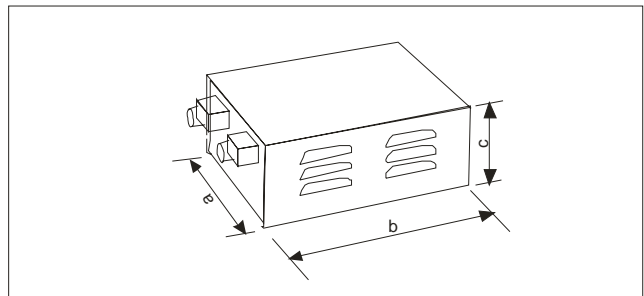
Ballast							Lamp		
Model	Supply voltage (v/Hz)	input current (A)	power factor cos	Size (mm)			bulb type	tube current	tube power
				a	b	c			
HQBN - 35L - S2	220V 50Hz	0.217	0.9	94	211	72	HPS/MH	0.53	35
HQBN - 50L - S2	220V 50Hz	0.298	0.9	94	211	72	HPS/MH	0.76	50
HQBN - 70L - S2	220V 50Hz	0.419	0.9	94	211	72	HPS/MH	0.98	70
HQBN - 100L - S2	220V 50Hz	0.576	0.9	94	211	72	HPS/MH	1.20	100
HQBN - 150L - S2	220V 50Hz	0.859	0.9	94	211	72	HPS/MH	1.80	150



Gearbox for outdoor lighting features:

- Excellent stable performance, long service life;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: $-25 \sim 50$;
- Alloy casing structure, excellent IP65 and heat dissipation function;
- Easy to maintain with fuse on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

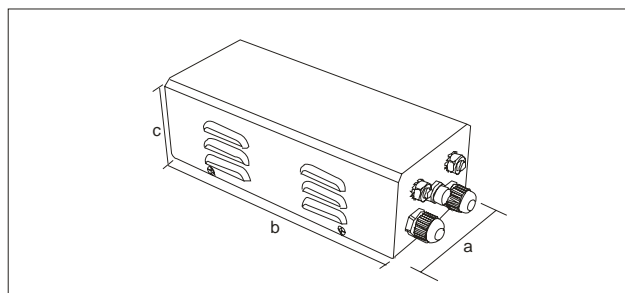
Ballast								Lamp		
Model	Co de	Supply voltage (V/Hz)	input current (A)	power factor cos	Size (mm)			bulb type	tube current	tube power
					a	b	c			
HQBN - 35L - S3	2420202004	220V 50Hz	0.217	0.9	110	165	69	HPS/MH	0.53	35
HQBN - 50L - S3	2420203002	220V 50Hz	0.298	0.9	110	165	69	HPS/MH	0.76	50
HQBN - 70L - S3	2420204007	220V 50Hz	0.419	0.9	110	165	69	HPS/MH	0.98	70
HQBN - 100L - S3	2420206001	220V 50Hz	0.576	0.9	110	165	69	HPS/MH	1.20	100
HQBN - 150L - S3	2420209005	220V 50Hz	0.859	0.9	110	165	69	HPS/MH	1.80	150



Gearbox for outdoor lighting features:

- Excellent stable performance, long service life;
- Assembled by high quality components and parts;
- Passed strict safety and performance tests before shipping;
- Operating temperature: $-25 \sim 50$;
- Alloy casing structure, excellent IP65 and heat dissipation function;
- Easy to maintain with fuse on case;
- Output leads with high heat and high voltage resistance, input leads for power supply with high heat resistance;
- Easy to use and reliable.

size



Data sheet

Ballast							Lamp		
Model	Supply voltage (v/Hz)	input current (A)	power factor cos	Size(mm)			bulb type	tube current	tube power
				a	b	c			
HQBN - 35L - S4	220V 50Hz	0.217	0.9	94	211	72	HPS/MH	0.53	35
HQBN - 50L - S4	220V 50Hz	0.298	0.9	94	211	72	HPS/MH	0.76	50
HQBN - 70L - S4	220V 50Hz	0.419	0.9	94	211	72	HPS/MH	0.98	70
HQBN - 100L - S4	220V 50Hz	0.576	0.9	94	211	72	HPS/MH	1.20	100
HQBN - 150L - S4	220V 50Hz	0.859	0.9	94	211	72	HPS/MH	1.80	150





HID lighting fixtures series

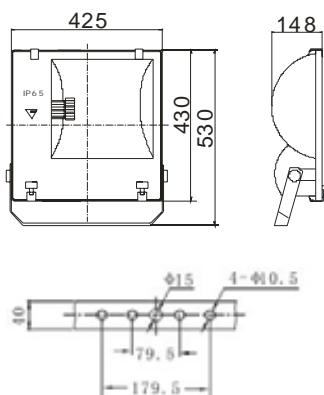
Material & Characteristic

- The safety certification CQC of China
- Class I electrical insulation protection
- High-pressure die-cast aluminum body, high efficacy reflector in positive pole.
- Can be chosen and asymmetric
- 5mm safe reinforced glass

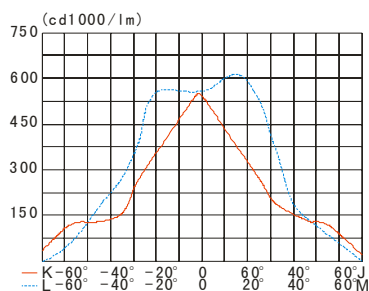
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
CNLBN -250L/CNL03	HPS 250W	E40	220V/50Hz
CNLBG -250L/CNL03	MH 250W	E40	220V/50Hz
CNLBG -400L/CNL03	MH 400W	E40	220V/50Hz

Floodlighting luminaire series

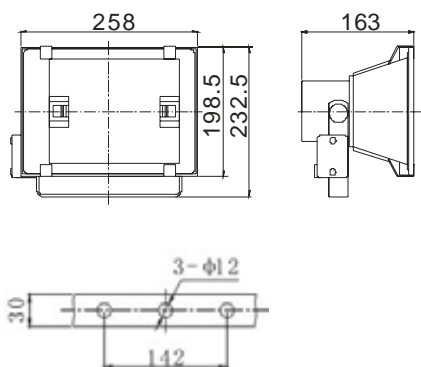
Material & Characteristic

- United gear box shaped with aluminum alloy.
- positive pole alumina reflector designed only for narrow and medium light beam.
- silicon rubber airtight band with heat resisting and toughened glass.
- High class of waterproof and dustproof.

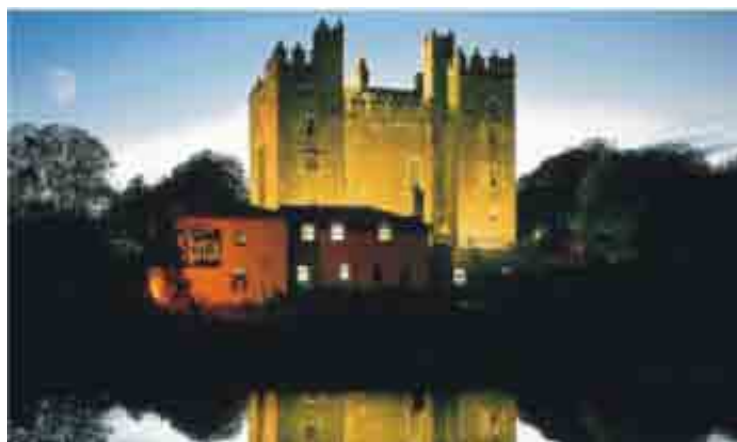
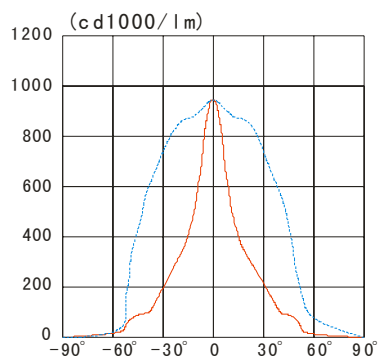
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

产品尺寸 size



Luminous intensity curve



Product Parameter

IP65

Model	Lamp	Base	Voltage & frequency
CNLBN-70L/CNL73	MH/HPS 70W	Rx7s/E27	220V/50Hz
CNLBN-150L/CNL73	MH/HPS 150W	Rx7s/E27	220V/50Hz

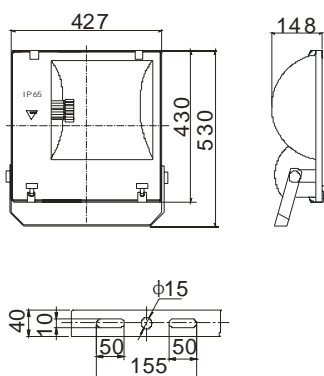
Material & Characteristic

- The safety certification CQC of China
- Class I electrical insulation protection
- High-pressure die-cast aluminum body, high efficacy reflector in positive pole.
- Can be chosen and asymmetric
- 5mm safe reinforced glass

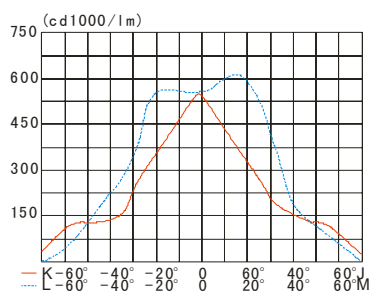
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 250L/FG01B	HPS 250 W	E40	220V/50Hz
HQBN - 400L/FG01B	HPS 400 W	E40	220V/50Hz
HQBG - 250L/FG01B	MH 250W	E40	220V/50Hz
HQBG - 400L/FG01B	MH 400W	E40	220V/50Hz

Floodlighting luminaire series

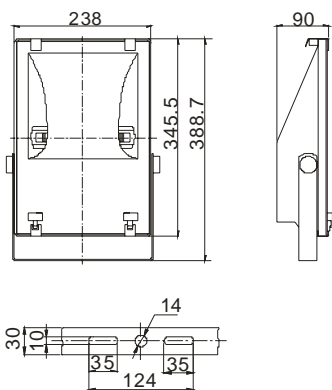
Material & Characteristic

- The safety certification CQC of China
- Class I electrical insulation protection
- High -pressure die - cast aluminum body, high efficacy reflector in positive pole.
- Can be chosen an d asym metric
- 5mm safe reinforced glass

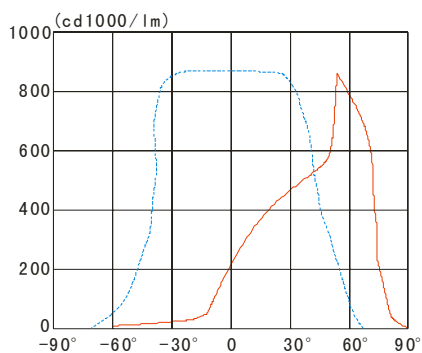
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/FG02A	MH/HPS 70W	Rx7s/E27	220V/50Hz
HQBN-150L/FG02A	MH/HPS 150W	Rx7s/E27	220V/50Hz

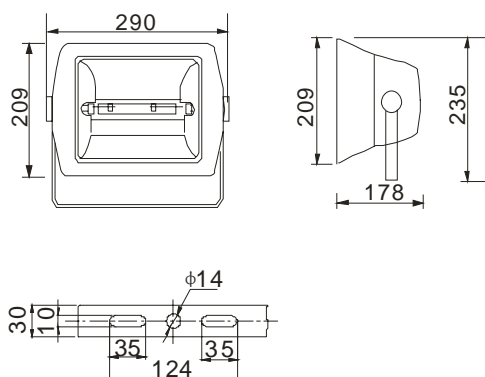
Material & Characteristic

- United gear box shaped with aluminum alloy.
- positive pole alumina reflector designed only for narrow and medium light beam.
- silicon rubber airtight band with heat resisting and toughened glass.
- High class of waterproof and dustproof.

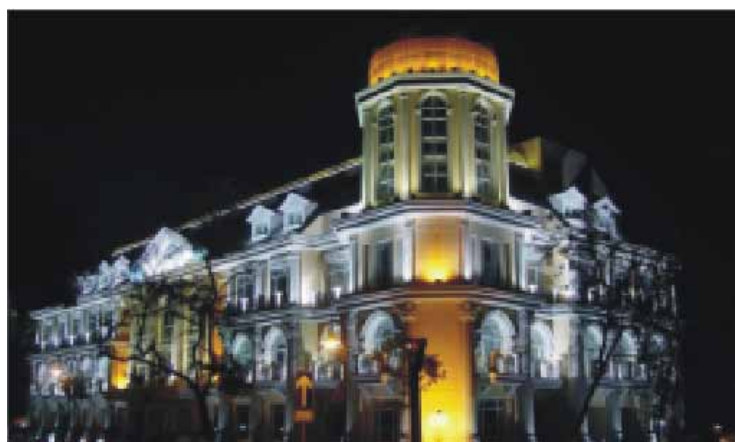
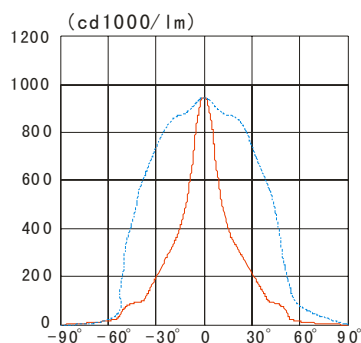
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/FG10	MH/HPS 70W	Rx7s/E27	220V/50Hz
HQBN-150L/FG10	MH/HPS 150W	Rx7s/E27	220V/50Hz

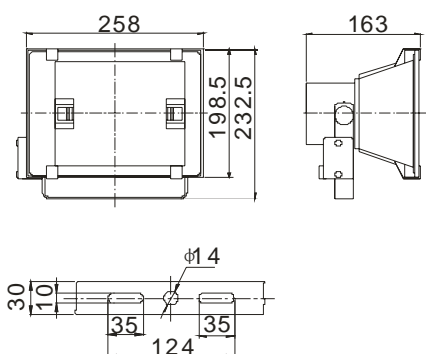
Material & Characteristic

- United gear box shaped with aluminum alloy.
- positive pole alumina reflector designed only for narrow and medium light beam.
- silicon rubber airtight band with heat resisting and toughened glass.
- High class of waterproof and dustproof.

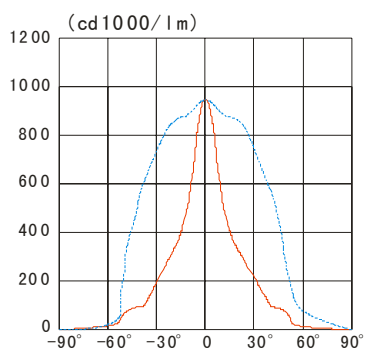
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/FG20	MH/HPS 70W	Rx7s/E27	220V/50Hz
HQBN-150L/FG20	MH/HPS 150W	Rx7s/E27	220V/50Hz

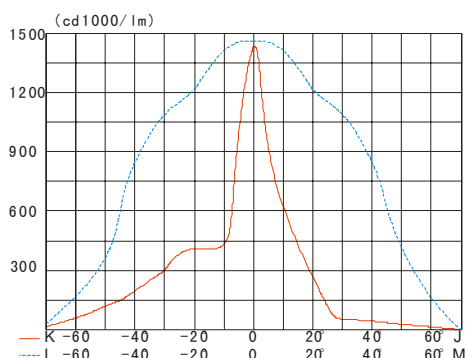
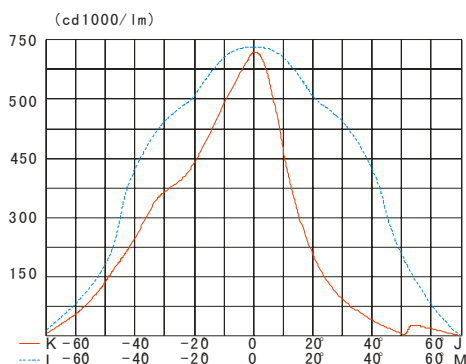
Material & Characteristic

- High - pressure die - casting aluminum shell, external static spraying processing.
- Imported high - purity aluminum reflector, symmetric light distribution.
- Built - in plate to concentrate the vote - ray beam which improves the light efficiency and effectively prevent glare and light pollution.
- High temperature resistant silicon rubber sealing and tempered glass.
- Calibration plate inside the luminaire to facilitate angle adjustment.
- Back cover open design for light source replacement and easy maintenance.

Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Luminous intensity curve



It is recommended to use
Huaquan gear box model no.
HQBXXL - K

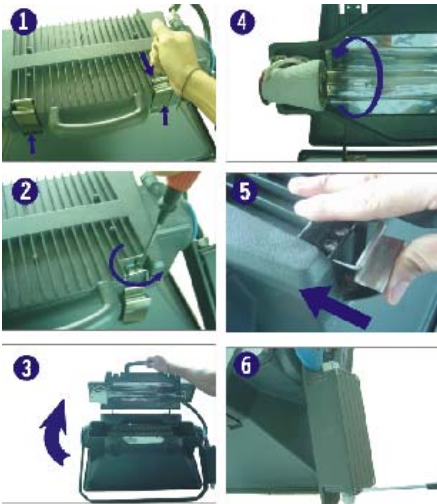


Product Parameter

IP
65

Model	Lamp	Base	Voltage & frequency
HQBN - 1000L/FG03	HPS 1000W	E40/X528	220V/50Hz
HQBG - 1000L/FG03	MH 1000W	E40/X528	220V/50Hz
HQBN - 2000L/FG03	MH 2000W	X528	220V/50Hz

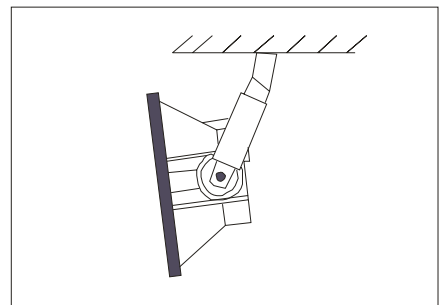
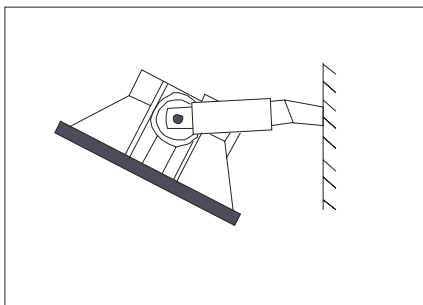
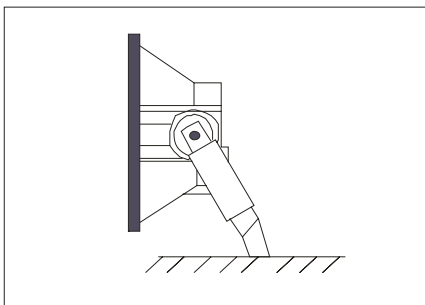
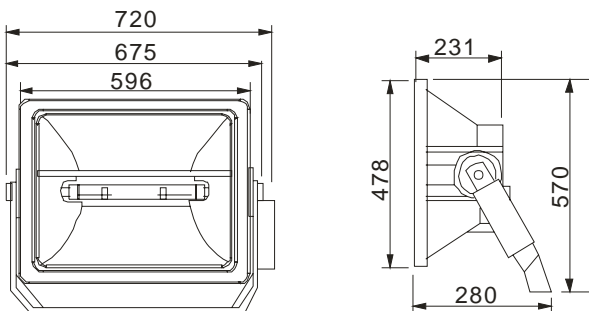
Material & Characteristic



Lamp installation steps:

Step One: Use a small screwdriver to open the two buttons on back cover, as shown in Figure 1.
 Step Two: Use a cross screwdriver to loose the locking screw under two pressing buttons under to open the rear lamp cover.
 Step Three: Loosen two pressing buttons to open up the rear lamp cover as shown in Figure 3.
 Step Four: As shown in Figure 4, screw the light source into the lamp holder. Note: Please wear the cloth gloves to protect the lamp.
 Step Five: Close the rear cover and tighten the locking screw after light source is installed. Press the pressing button and lock the rear cover as shown in Figure 5.
 Step Six: Use a cross screwdriver shown in Figure 6 to open the sealed box. Put the outside cable through the water-proof connectors, and connect it well.

Luminaire installation:



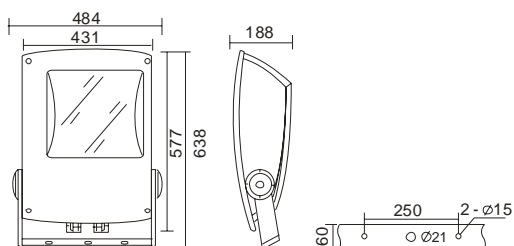
Material & Characteristic

- High - quality die - casting aluminum shell as luminaire body.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- Symmetry or asymmetrical reflector.
- High - quality silicone rubber seals, high temperature, anti - aging.

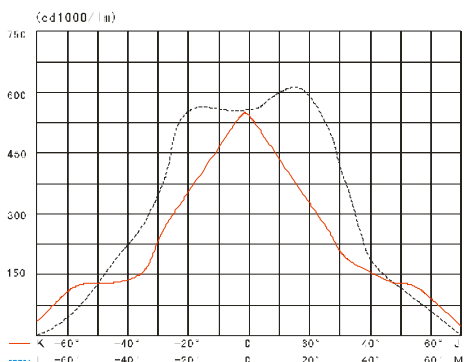
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 250L/FG05	HPS 250W	E40	220 V/50Hz
HQBN - 400L/FG05	HPS 400W	E40	220 V/50Hz
HQBG - 250L/FG05	MH 250W	E40	220 V/50Hz
HQBG - 400L/FG05	MH 400W	E40	220 V/50Hz

Floodlighting luminaire series

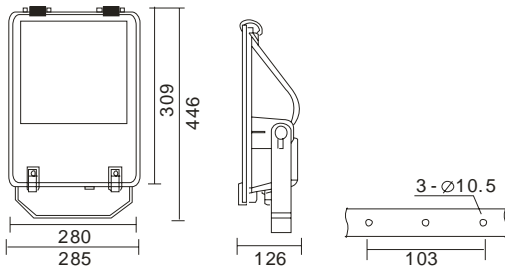
Material & Characteristic

- High - quality die - casting aluminum shell as luminaire body.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- Symmetry or asymmetrical reflector.
- High - quality silicone rubber seals, high temperature, anti - aging.

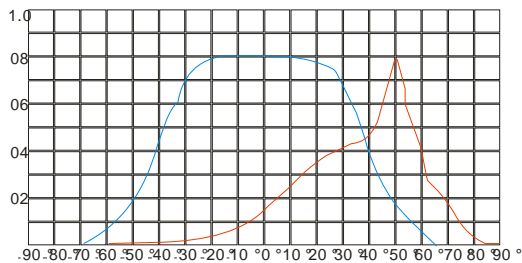
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN- 70L/FG06	MH/HPS 70W	Rx7s	220V/50Hz
HQBN- 150L/FG06	MH/HPS 150W	Rx7s	220V/50Hz

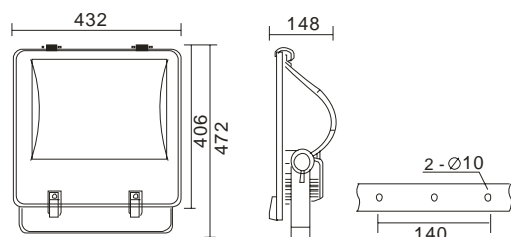
Material & Characteristic

- High - quality die - casting aluminum shell as luminaire body.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- Symmetry or asymmetrical reflector.
- High - quality silicone rubber seals, high temperature, anti - aging.

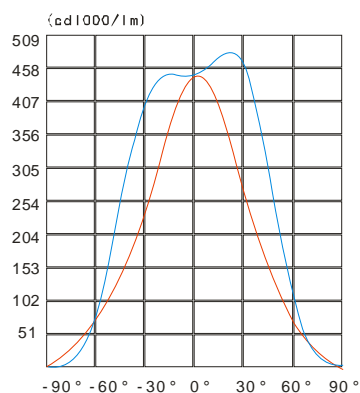
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 250L/FG08	HPS 250W	E40	220V/50Hz
HQBN - 400L/FG08	HPS 400W	E40	220V/50Hz
HQBG - 250L/FG08	MH 250W	E40	220V/50Hz
HQBG - 400L/FG08	MH 400W	E40	220V/50Hz

Floodlighting luminaire series

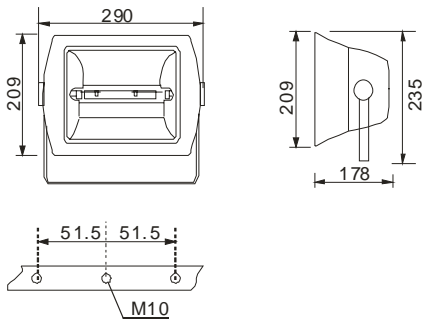
Material & Characteristic

- united gear box shaped with aluminum alloy.
- positive pole alumina reflector designed only for narrow and medium light beam.
- silicon rubber airtight band with heat resisting and toughened glass.
- High class of waterproof and dustproof.

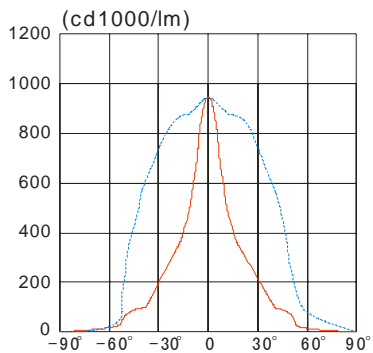
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN- 70L/FG10-3	MH/HPS 70W	Rx7s/E27	220V/50Hz
HQBN- 150L/FG10-3	MH/HPS 150W	Rx7s/E27	220V/50Hz

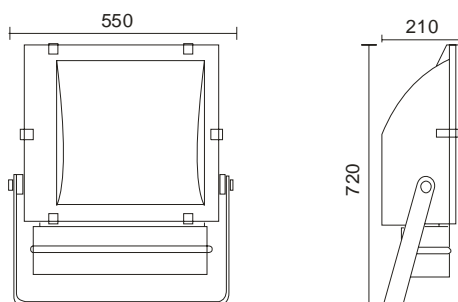
Material & Characteristic

- High - quality die - casting aluminum shell as luminaire body.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- Symmetry or asymmetrical reflector.
- High - quality silicone rubber seals, high temperature, anti - aging.

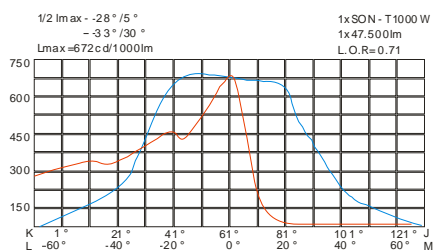
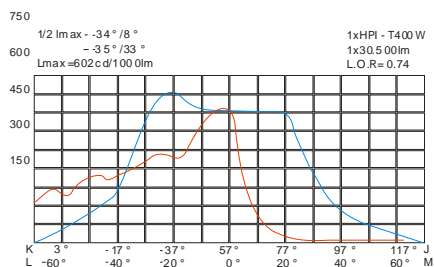
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 1000L/FG 14	HPS 1000W	E40	220V/50 Hz
HQBG - 1000L/FG 14	MH 1000W	E40	220V/50 Hz

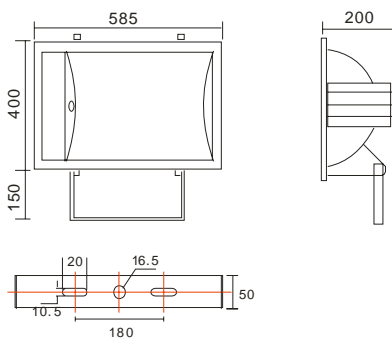
Material & Characteristic

- High - quality die - casting aluminum shell as luminaire body.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- Symmetry or asymmetrical reflector.
- High - quality silicone rubber seals, high temperature, anti - aging.

Applications

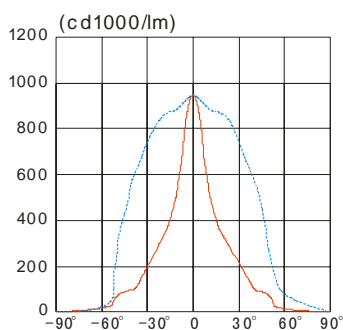
- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



It is recommended to use Huaquan gear box model no. HQBNXXL - K

Luminous intensity curve



Product Parameter

IP65

Model	Lamp	Base	Voltage & frequency
HQBN - 1000L/FG15	HPS 1000W	E40	220V/50Hz
HQBG - 1000L/FG15	MH 1000W	E40	220V/50Hz

Floodlighting luminaire series

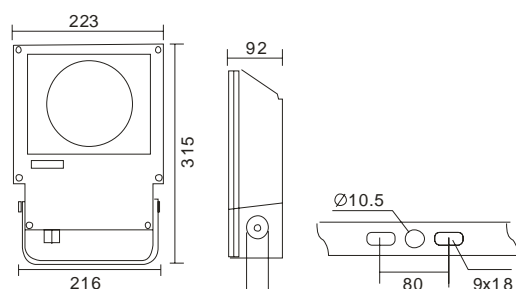
Material & Characteristic

- High- quality die - casting aluminum shell as luminaire body.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- High- quality silicone rubber seals, high temperature, anti - aging.

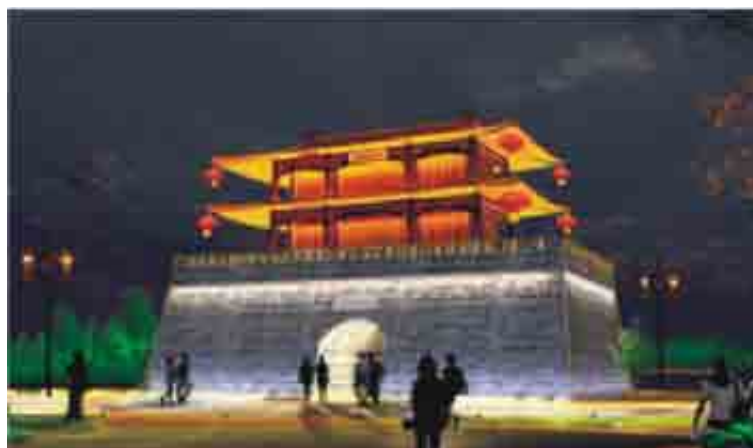
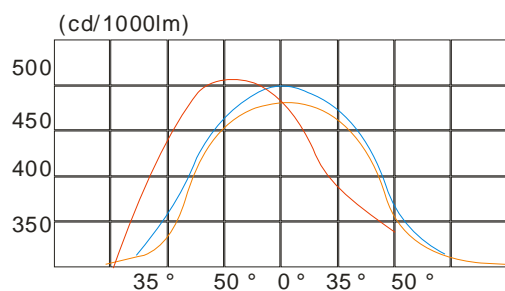
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/FG15A	MH/HPS 70W	Rx7s	220V/50Hz

Floodlighting luminaire series

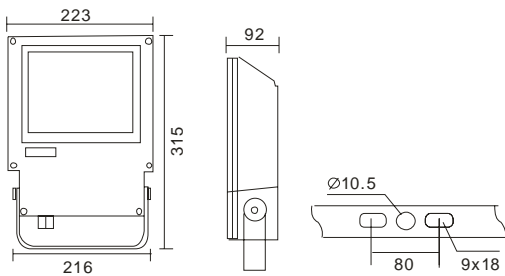
Material & Characteristic

- High - quality die - casting aluminum shell as luminaire body.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- High - quality silicone rubber seals, high temperature, anti - aging.

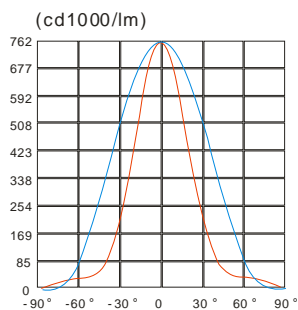
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/FG15B	MH/HPS 70W	Rx7s	220V/50Hz

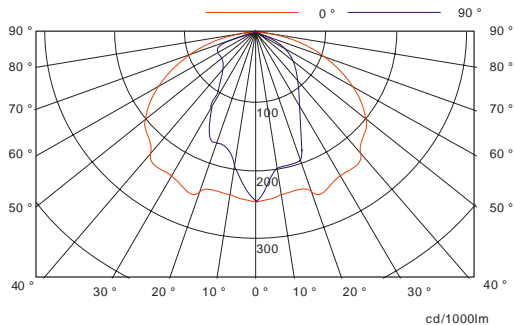
Material & Characteristic

- Cast aluminum, die - casting molding, the surface treated by electrostatic spray, lightweight structure.
- High - quality pieces of optical glass anti - glare with functions of anti - glare light and anti - ultraviolet that can effectively reduce discomfort and fatigue to eyes of the staff on spot.
- Wide lighting scope, extensive coverage and uniform soft light.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- Can be ceiling or wall installation, etc. Adaptive to different working environment.

Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Luminous intensity curve

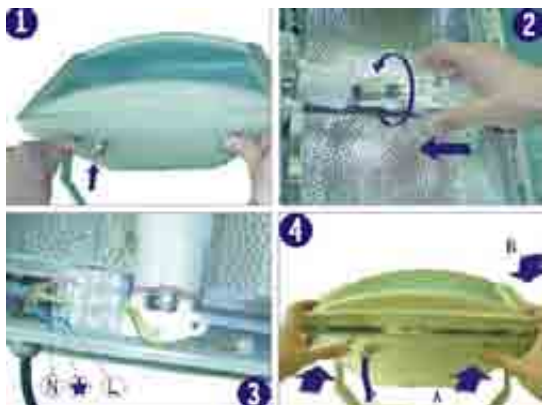


Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/FG21	MH/HPS 70W	E27	220V/50Hz
HQBN-100L/FG21	MH/HPS 100W	E27	220V/50Hz
HQBN-150L/FG21	MH/HPS 150W	E27	220V/50Hz

Lamp installation steps:



Lamp installation steps:

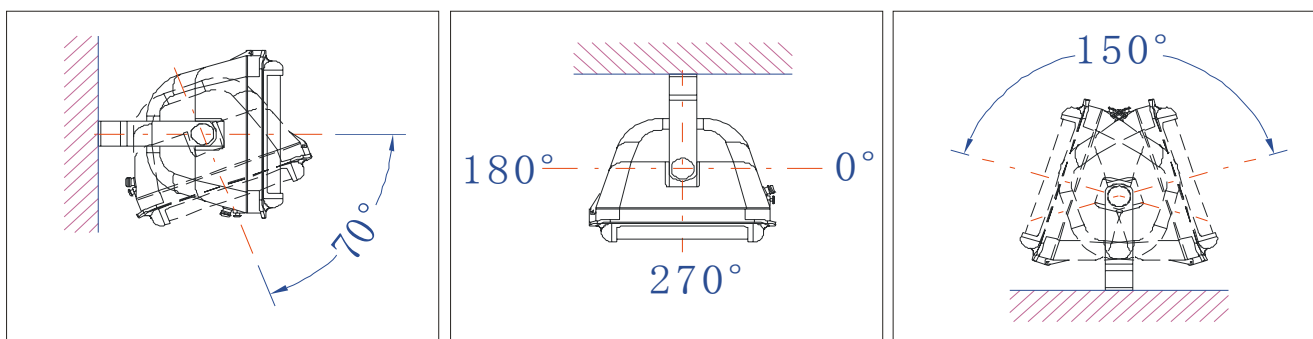
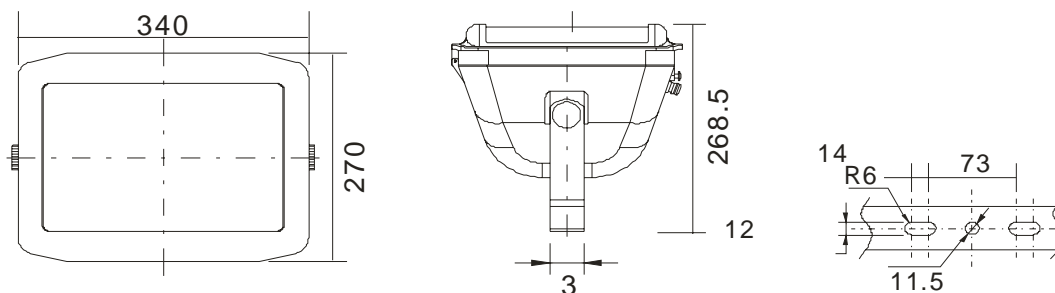
Step One: Manually press the luminaire surface covered switch shown in Figure 1. Then the cover is open.

Step Two: Put the light source into the lamp holder as shown in Figure 2 when the cover is open. Note: Please wear the cloth gloves to protect the lamp.

Step three: After fixing the lamp, put the cable through the waterproof external wiring connectors and then connect to terminal blocks as per the wiring diagram.

Step four: After connection of the power cord then close the cover. Firstly please press the switch back to the top button open shell, so that the aluminum cover surface missile landed in front of the deductions, and then close the cover. Otherwise they will the cover cannot close. The steps show in Figure A, B.

Luminaire installation:



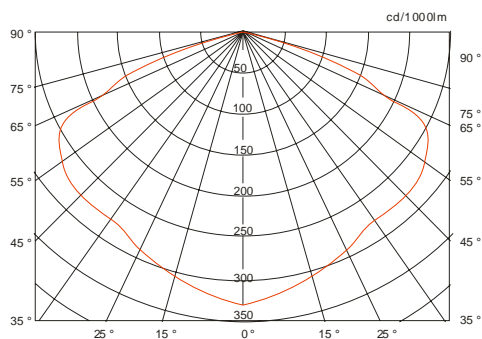
Material & Characteristic

- High luminous efficiency and long - life discharge lamps as the light source. Imported high - purity aluminum anodizing materials as reflector and precise optical design and power factor 0.90, high efficiency reflection, good light transmission, energy saving and environment friendly.
- High - quality aluminum die - casting as the luminaire shell.
- Luminaire and electrical box integration design, elegant appearance, easy installation and convenient maintenance.
- Light weight alloy using recyclable materials and environmental friendly high - tech spray technology, water - proof, dust - proof and rust resistant. Can be used in hot, humid or corrosive and other adverse environment for long - term use.
- Good electromagnetic compatibility and will not interfere with the input grid.
- 5mm thick tempered glass light glare for anti - glare optical effect High - quality pieces of optical glass glare with functions of anti - glare light and anti - ultraviolet that can effectively reduce discomfort and fatigue to eyes of the staff on spot.
- Install a variety of ways to meet the different needs of the scene lighting.

Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBG-250L/FG24	MH 250W	E40	220V/50Hz
HQBG-250L/FG24	MH 400W	E40	220V/50Hz

Lamp installation steps:



Lamp installation steps:

Step One: Use small screwdriver to open the word with four pressure lamp button, as shown in Figure 1.

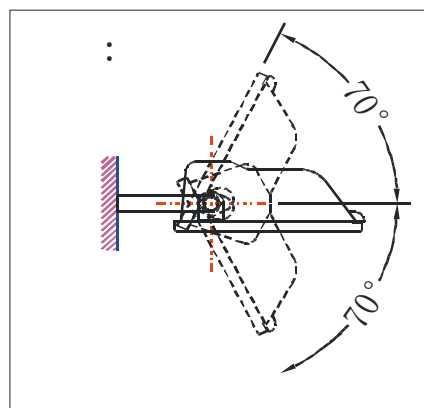
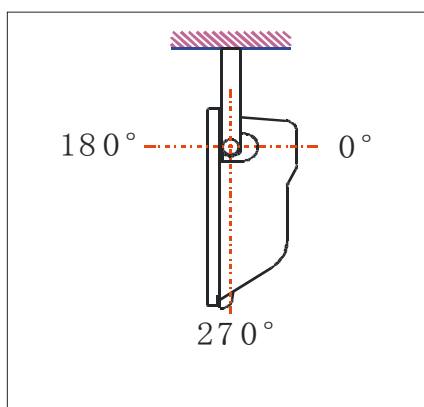
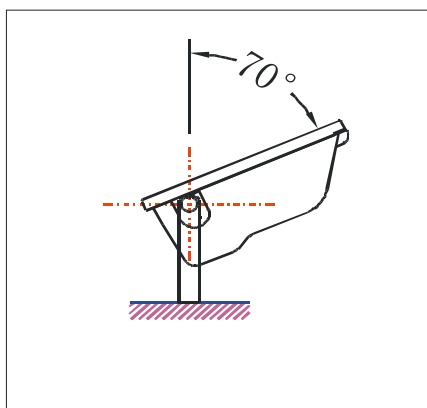
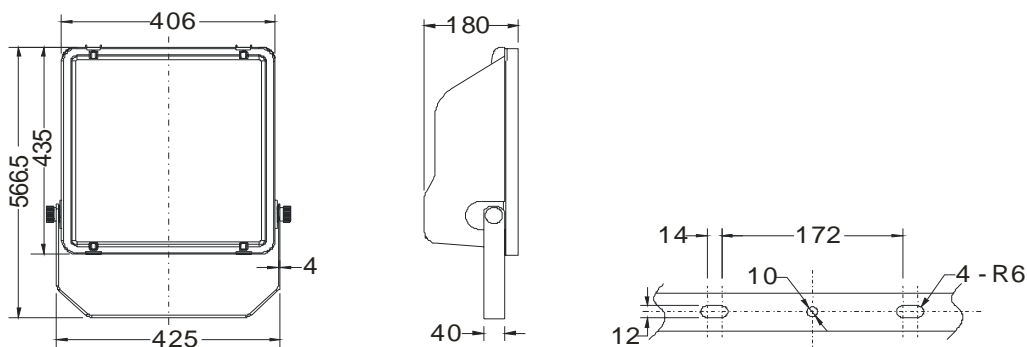
Step Two: Loose the button as shown in Figure 2 and open the cover backwards.

Step three: As shown in Figure 3, put the light source into the lamp holder. Note: Please wear the cloth gloves to protect the lamp.

Step four: Use the cross screwdriver to loose screws in lamp wiring box, and open the lid.

Step Five: Put the external cable through the waterproof connector and through the pressure line code, and then connect to wiring terminals. Screw tight of pressed wire screw and waterproof connector screws of the locking nut and then close the lid of wiring box.

Luminaire installation:



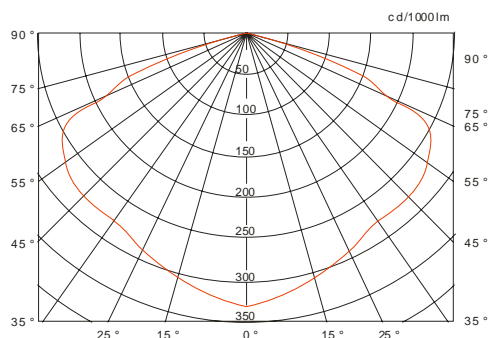
Material & Characteristic

- High luminous efficiency and long - life discharge lamps as the light source. Imported high - purity aluminum anodizing materials as reflector and precise optical design and power factor 0.90, high efficiency reflection, good light transmission, energy saving and environment friendly.
- High - quality aluminum die - casting as the luminaire shell.
- Luminaire and electrical box integration design, elegant appearance, easy installation and convenient maintenance.
- Light weight alloy using recyclable materials and environmental friendly high - tech spray technology, water - proof, dust - proof and rust resistant. Can be used in hot, humid or corrosive and other adverse environment for long - term use.
- Good electromagnetic compatibility and will not interfere with the input grid.
- 5mm thick tempered glass .
- Install a variety of ways to meet the different needs of the scene lighting.

Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Luminous intensity curve

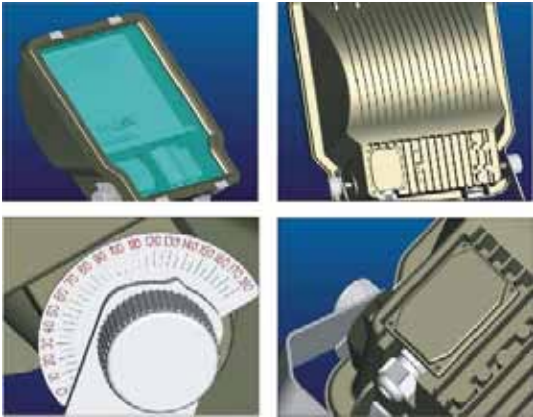


Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/FG28A	MH/HPS 70W	E27	220V/50Hz
HQBN-100L/FG28A	MH/HPS 100W	E27	220V/50Hz
HQBN-150L/FG28A	MH/HPS 150W	E27	220V/50Hz

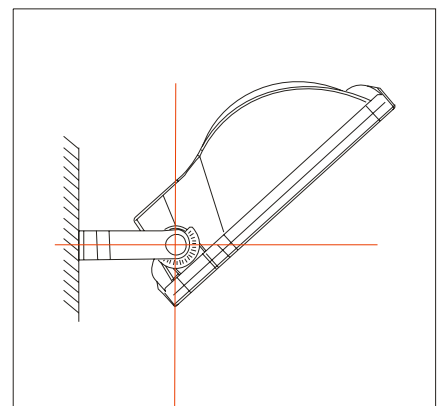
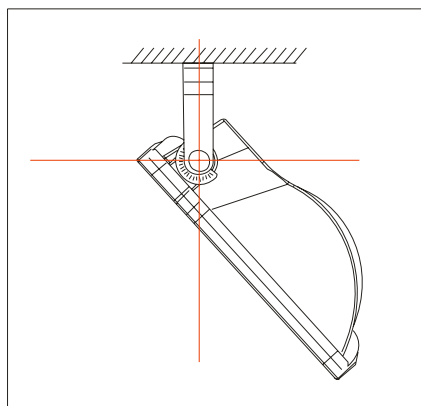
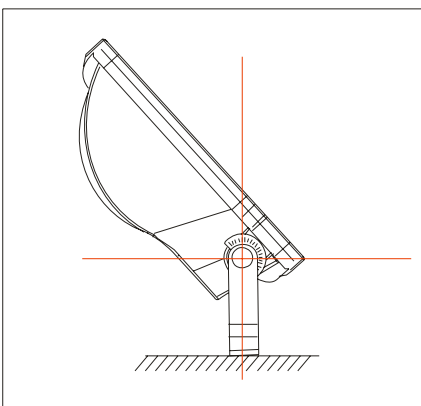
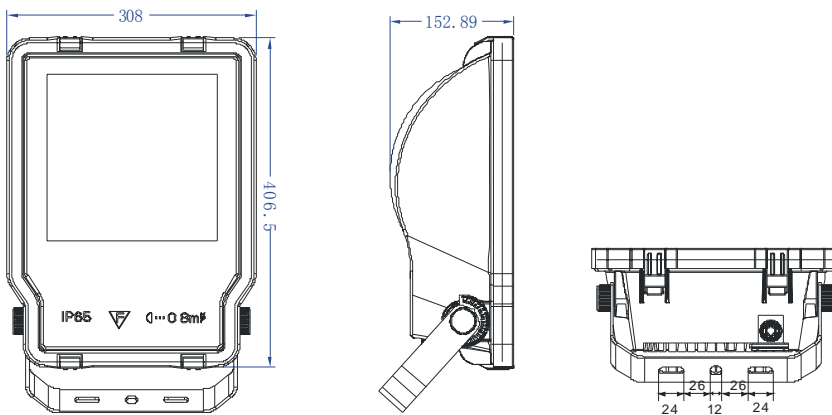
Lamp installation steps:



Material & Characteristic

- Fixture with die - cast cover, ensure meet Ip65.
- With heat dissipation vein design, install electrical components on it, ensure temperature rise meet standard requirement.
- Dial on mounting bracket, easy to adjust fixture's angle.
- Outside water - proof junction box, convenient for connecting wires.

Luminaire installation:



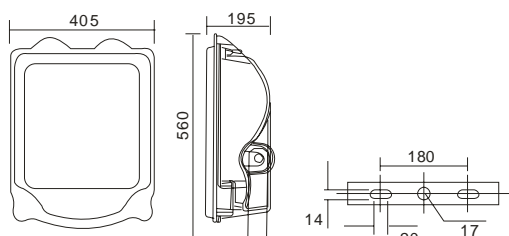
Material & Characteristic

- High luminous efficiency and long -life discharge lamps as the light source. Imported high - purity aluminum anodizing materials as reflector and precise optical design and power factor 0.90, high efficiency reflection, good light transmission, energy saving and environment friendly.
- High - quality aluminum die - casting as the luminaire shell.
- Luminaire and electrical box integration design, elegant appearance, easy installation and convenient maintenance.
- Light weight alloy using recyclable materials and environmental friendly high -tech spray technology, water - proof, dust - proof and rust resistant. Can be used in hot, humid or corrosive and other adverse environment for long - term use.
- Good electromagnetic compatibility and will not interfere with the input grid.
- 5mm thick tempered glass.
- Install a variety of ways to meet the different needs of the scene lighting.

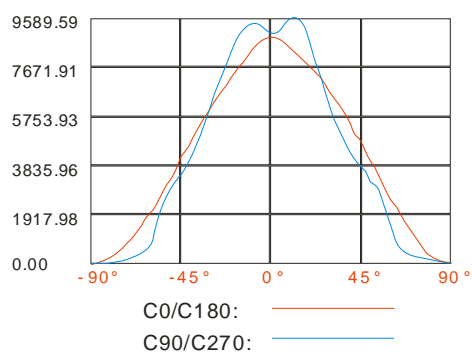
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 250L/FG29	HPS 250W	E40	220V/50Hz
HQBN - 400L/FG29	HPS 400W	E40	220V/50Hz
HQBG - 250L/FG29	MH 250W	E40	220V/50Hz
HQBG - 400L/FG29	MH 400W	E40	220V/50Hz

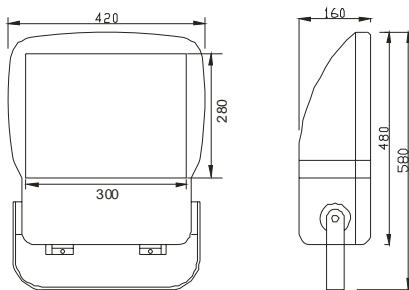
Material & Characteristic

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- High - quality aluminum die - casting as the luminaire shell.
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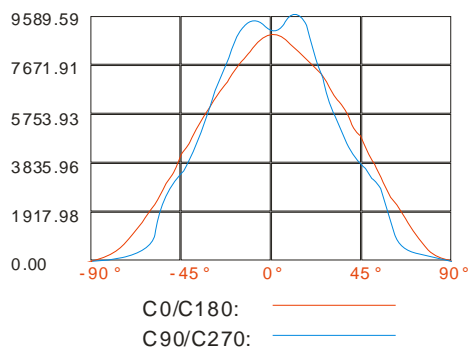
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



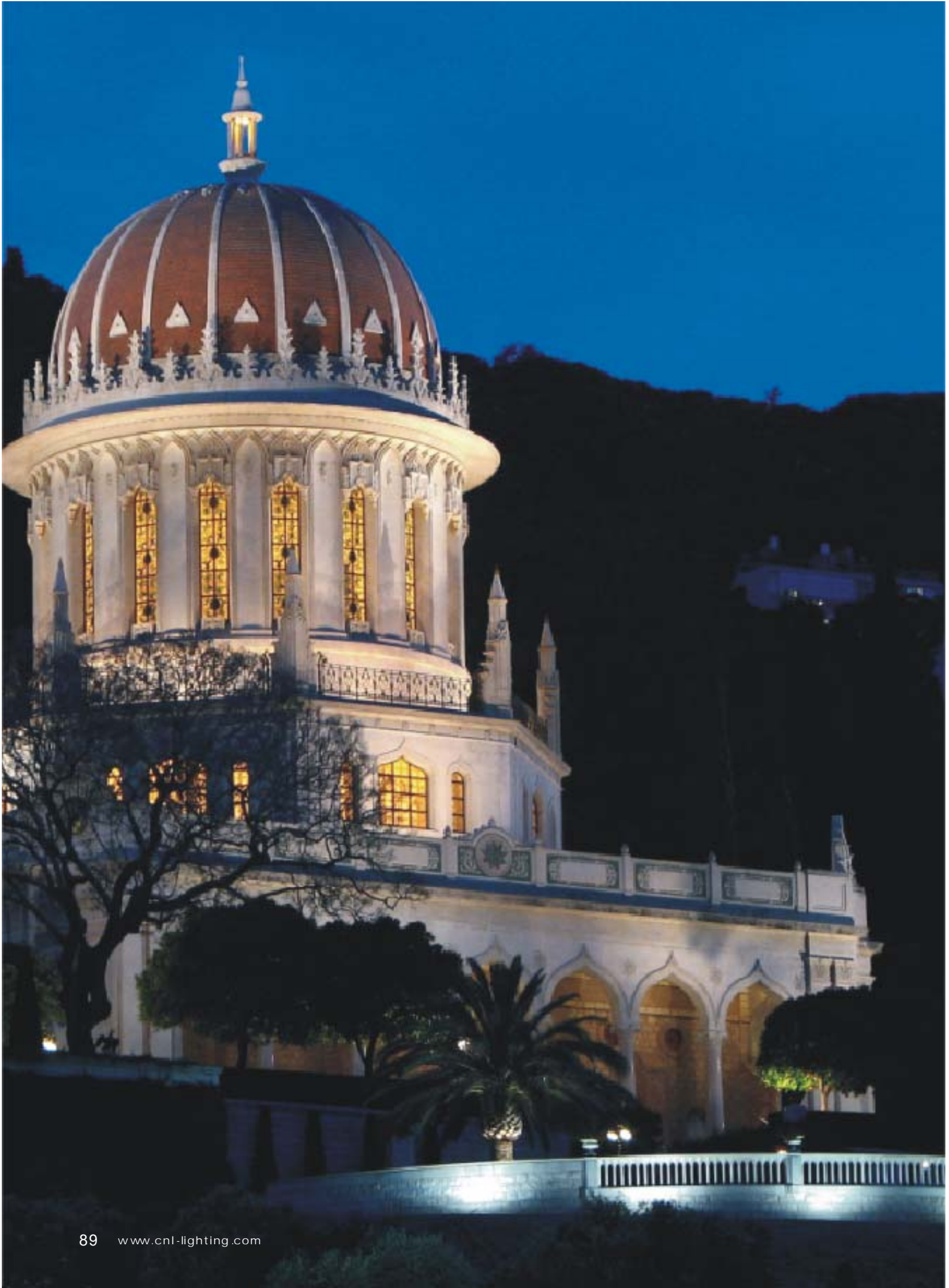
Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 250L/FG30	HPS 250W	E40	220V/50Hz
HQBN - 400L/FG30	HPS 400W	E40	220V/50Hz
HQBG - 250L/FG30	MH 250W	E40	220V/50Hz
HQBG - 400L/FG30	MH 400W	E40	220V/50Hz



Projector luminaire series

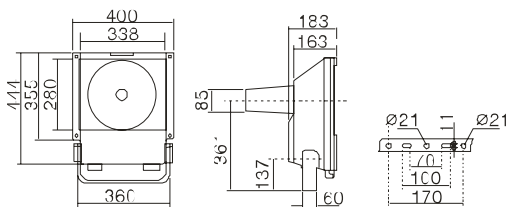
Material & Characteristic

- High pressure die- casting aluminum shaped outer shell, spraying plastics surface by electrostatic method.
- Oxidized aluminum reflector in positive pole, which is designed for narrow light beam.
- Exchange the bulb easily via front buckle.

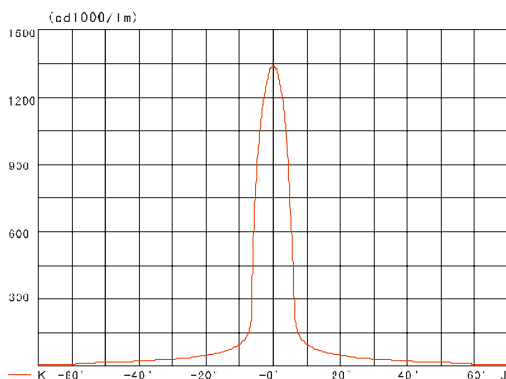
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-250L/TG104	HPS 250W	E40	220V/50Hz
HQBN-400L/TG104	HPS 400W	E40	220V/50Hz
HQBG-250L/TG104	MH 250W	E40	220V/50Hz
HQBG-400L/TG104	MH 400W	E40	220V/50Hz

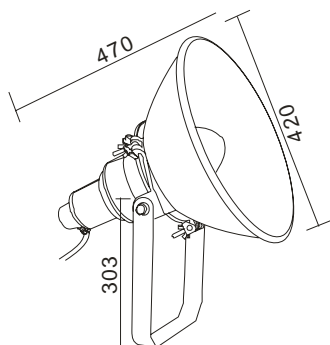
Material & Characteristic

- High luminous efficiency, long - life gas discharge light source, high - pure aluminum reflector, reflector efficiency.
- Fixture in the structural design of a special treatment done so that the fixture has a vibration proof, water proof features, ensure that can be used in the ports, power plants, bridges and other places where is vibration.
- High - pressure die - casting molding aluminum shell, the surface is polyester spray processing, corrosion - resistant.
- The overall temperature rise is low, good heat dissipation.
- Stainless steel accessories and spray stent.

Applications

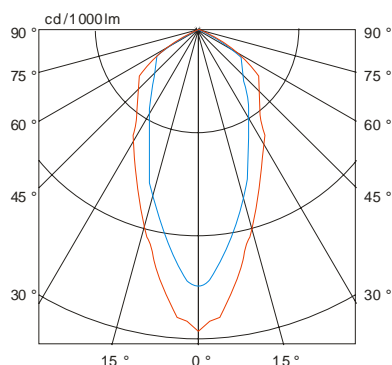
- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



It is recommended to use Huaquan gear box model no. HQBNXXL - K

Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN -250L/TG114	HPS 250W	E40	220V/50Hz
HQBN -400L/TG114	HPS 400W	E40	220V/50Hz
HQBG -250L/TG114	MH 250W	E40	220V/50Hz
HQBG -400L/TG114	MH 400W	E40	220V/50Hz

Projector luminaire series

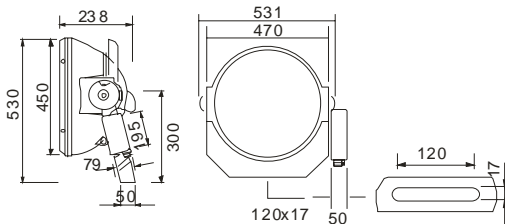
Material & Characteristic

- Casting molding aluminum alloy electrical box conjoined.
- For narrow - beam, medium - beam design in anodized aluminum reflector.
- Built - in shading plate so that the vote - ray beam focused on to improve the light use efficiency, and effectively prevent glare and light pollution.
- Lamps have scale the side to facilitate the adjustment angle.
- Replacement of light bulbs behind the open - style to facilitate maintenance.
- Higher water - proof and dust - proof grade.

Applications

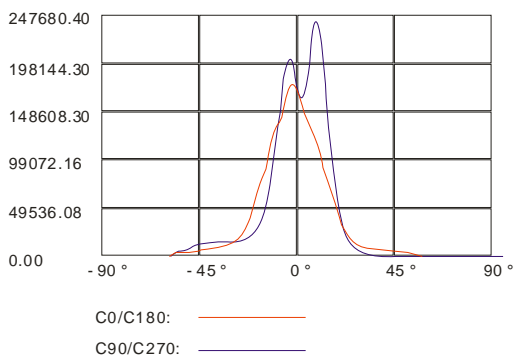
- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



It is recommended to use Huaquan gear box model no. HQBNXXL - K

Luminous intensity cure



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN- 1000L/TG106	MH 1000W	X528	220V/50Hz

Projector luminaire series

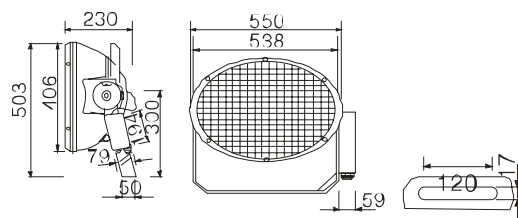
Material & Characteristic

- High pressure die - casting aluminum shape, stainless steel protective screening
- The newly designed elliptical reflector is more efficient as it is smaller and lighter with better drag of the air .
- The built - in shading plate is designed for narrow and midst light beam and effectively prevents glare and light pollution
- Light bulbs can be easily replaced in the back
- High waterproof and dust - proof coefficient

Applications

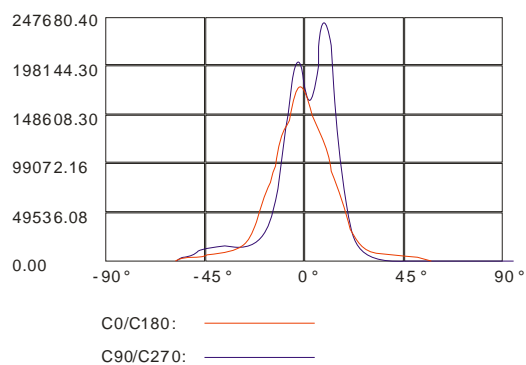
- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



It is recommended to use Huaquan gear box model no. HQBNXXL - K

Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 1000L/TG108	MH 1000W	X528	220V/50Hz

Projector luminaire series

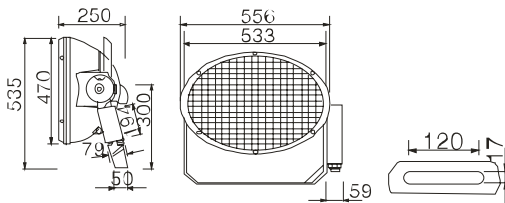
Material & Characteristic

- High pressure die - casting aluminum shape, stainless steel protective screening
- The newly designed elliptical reflector is more efficient as it is smaller and lighter with better drag of the air .
- The built - in shading plate is designed for narrow and midst light beam and effectively prevents glare and light pollution
- Light bulbs can be easily replaced in the back
- High waterproof and dust - proof coefficient

Applications

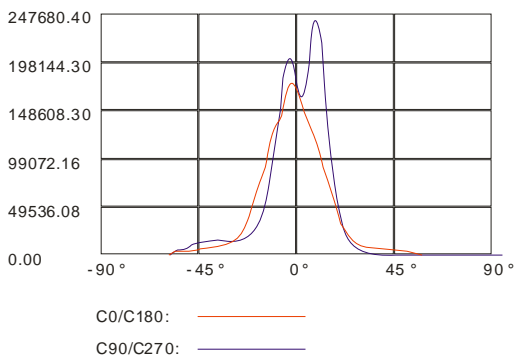
- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



It is recommended to use Huaquan gear box model no. HQBNXXL - K

Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 1800L/TG109	MH 1800W	PsSFC20 - 6/X528	220V/50Hz
HQBN - 2000L/TG109	MH 2000W	PsSFC20 - 6/X528	220V/50Hz

Material & Characteristic

- High luminous efficiency, long - life gas discharge light source, high - pure aluminum reflector, reflector and high efficiency.
- With high Developed that can be installed at the bottom of the shock absorber of a certain vibration lamp role to ensure that the tracks in the roadbed, bridges, tunnels and other high - frequency vibration environment for the safe use of the medium and long term.
- High - pressure die - casting molding aluminum shell, the surface of polyester spray to ensure that the lamps in the humid, high temperature harsh environment, such as non - corrosive, non - rusting.
- The overall temperature rise of low lighting, good heat dissipation.
- Adjustable high and low lamp holder so that light can be with the regulation.
- Lamps for all external screws stainless steel nut to ensure the reliability of products
- 400mm high - mounting brackets to ensure that lighting can be a greater angle to the rotation.



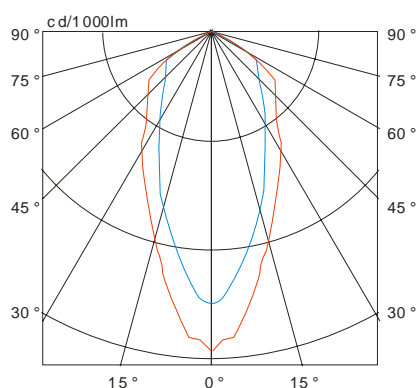
It is recommended to use Huaquan gear box model no. HQBNXXL-K



Applications

Petroleum, petrochemical, metallurgy, port, railways, power plants and other places of the ship and various indoor and outdoor lighting, lighting construction site.

Luminous intensity curve

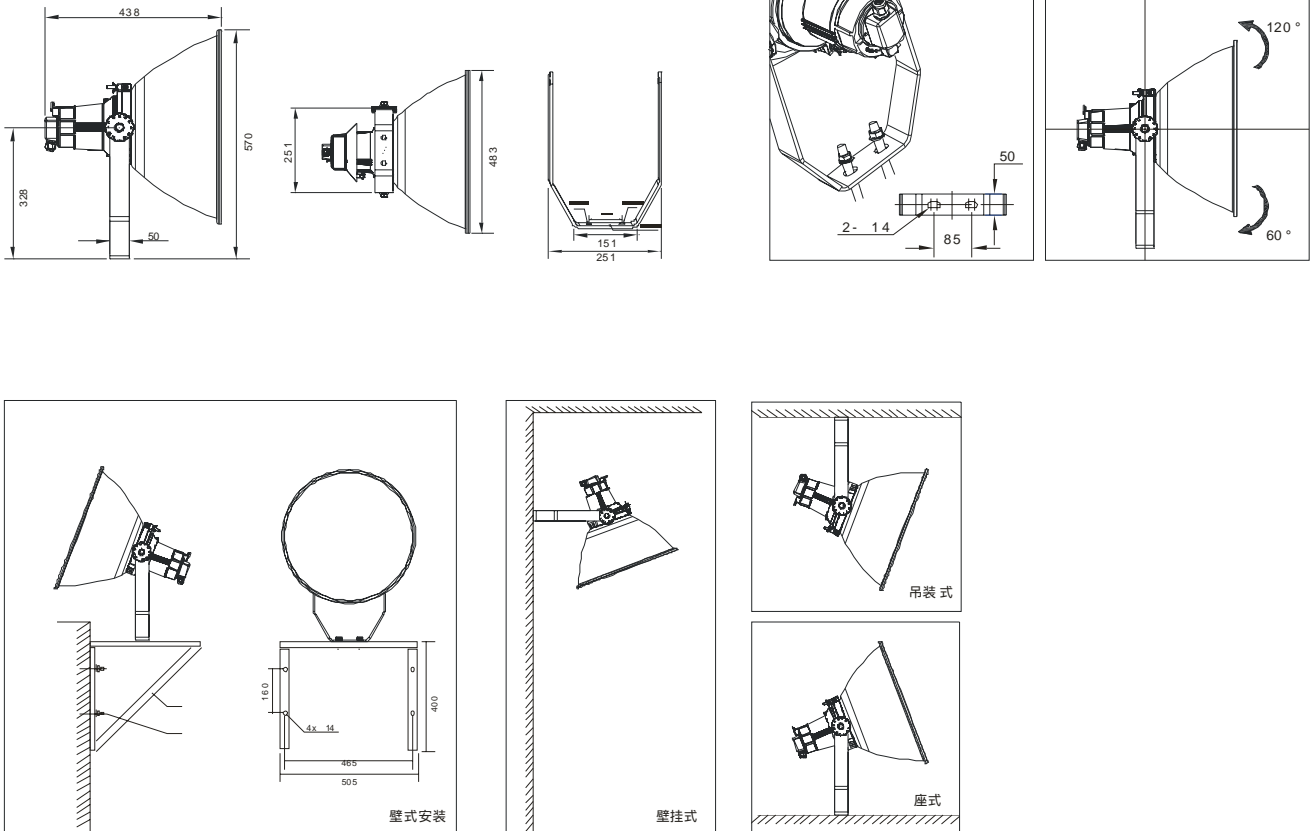


Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-250L/TG113	HPS 250W	E40	220V/50Hz
HQBN-400L/TG113	HPS 400W	E40	220V/50Hz
HQBG-250L/TG113	MH 250W	E40	220V/50Hz
HQBG-400L/TG113	MH 400W	E40	220V/50Hz

Lamp installation steps:



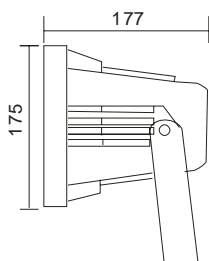
Material & Characteristic

- High -quality die - casting aluminum shell as luminaire body.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- High -quality silicone rubber seals, high temperature, anti - aging.

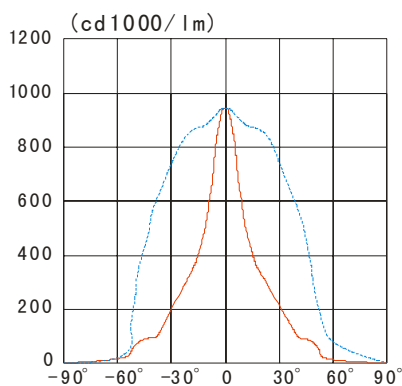
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN- 70L/TG115A	PAR30 70W	E27	220 V/50Hz
HQBN- 70L/TG115A	G12 70W	G12	220 V/50Hz
HQBN- 150L/TG115A	G12 150W	G12	220 V/50Hz

Projector luminaire series

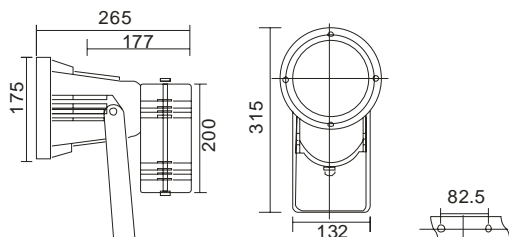
Material & Characteristic

- High - quality die - casting aluminum shell as luminaire body.
- Integration of electrical parts and luminaire design, easy installation and convenient maintenance.
- 5mm thick tempered glass, high temperature resistance and impact resistance.
- Electrical insulation protection: Grade I level.
- High - quality silicone rubber seals, high temperature, anti - aging.

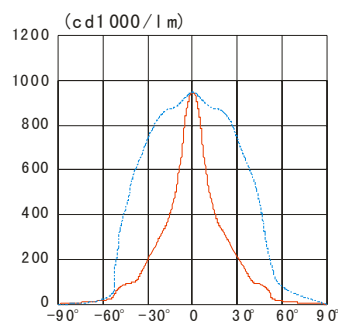
Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/TG115B	PAR30 70W	E27	220V/50Hz
HQBN-70L/TG115B	G12 70W	G12	220V/50Hz
HQBN-150L/TG115B	G12 150W	G12	220V/50Hz

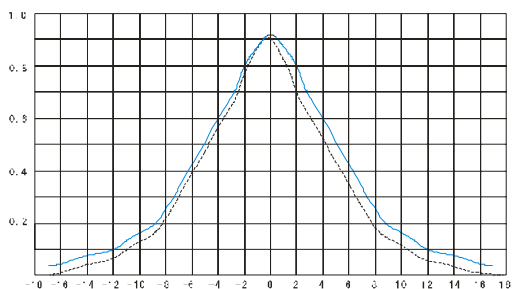
Material & Characteristic

- Hasp cover design, fast opening and closing, easy maintenance.
- Integration design of the two - cavity structure, lamp temperature rise impact on electrical parts is essentially minimize.
- Optimization of illumination optical design . Uniform and soft light, no glare, no ghosting.
- Imported high - quality aluminum shell, die - casting molding . Solid and practical performance .
- Use high - quality silicone rubber with high temperature resistance, anti - aging . Special seals can be use in various environment and climate .
- Use high - purity aluminum as reflector with high efficiency of reflecting .
- Advanced technology for tempered glass , strong shock resistance and high light transmittance .
- Surface treatment of electrostatic spraying technology . Anti - corrosion performance and strong adhesion .

Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 70L/TG202	MH/HPS 70W	E27	220V/50Hz
HQBN - 150L/TG202	MH/HPS 150W	E27	220V/50Hz
HQBG - 175L/TG202	MH/HPS 175W	E27	220V/50Hz
HQBN - 250L/TG203	HPS 250W	E40	220V/50Hz
HQBN - 400L/TG203	HPS 400W	E40	220V/50Hz
HQBG - 250L/TG203	MH 250W	E40	220V/50Hz
HQBG - 400L/TG203	MH 400W	E40	220V/50Hz

Lamp installation steps:



Lamp installation steps:

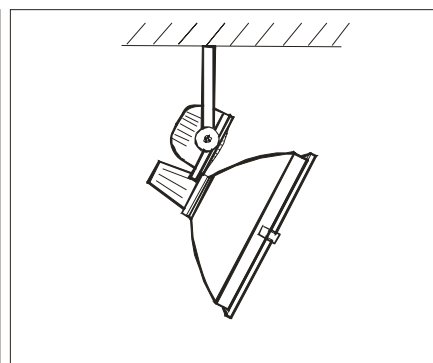
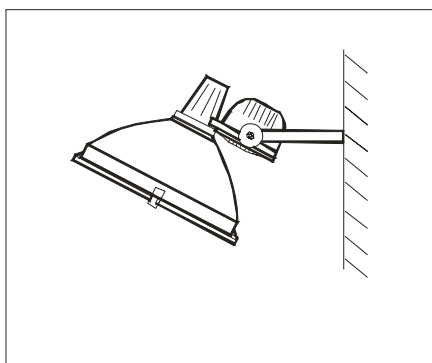
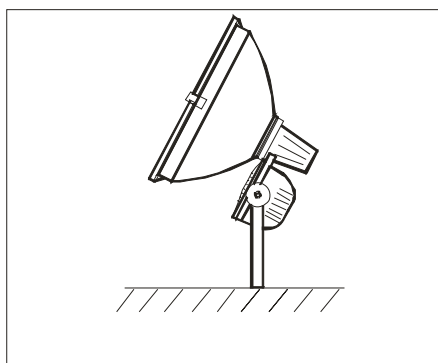
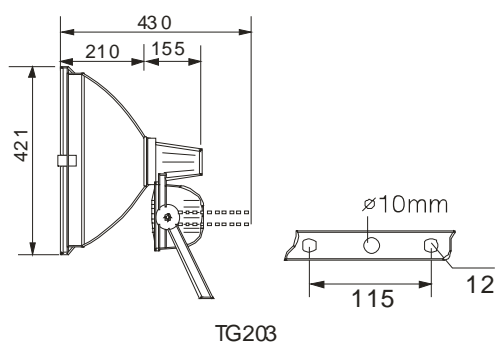
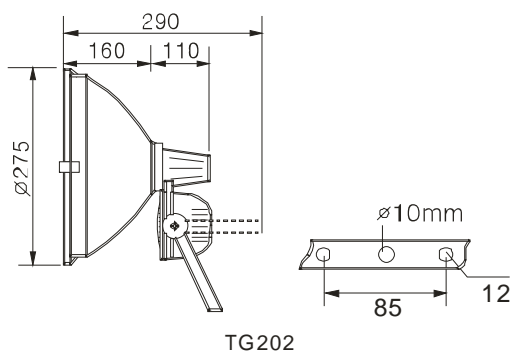
Step One: As shown in Figure 1, open four hasp.

Step Two: Open up cotton cover as shown in Figure 2.

Step three: Correctly screw the light source with adapted wattage into the lamp holder.

Step four: As shown, close the cover and press the hasp to fix the tempered glass. Take note that the cover glass and reflector must closely match to prevent water.

Luminaire installation:



Projector luminare series

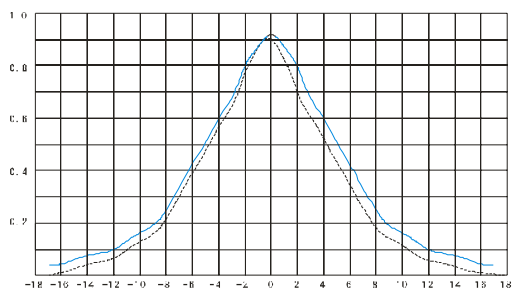
Material & Characteristic

- Hasp cover design, fast opening and closing, easy maintenance.
- Integration design of the two - cavity structure, lamp temperature rise impact on electrical parts is essentially minimize.
- Optimization of illumination optical design. Uniform and soft light, no glare, no ghosting.
- Imported high - quality aluminum shell, die - casting molding. Solid and practical performance.
- Use high - quality silicone rubber with high temperature resistance, anti - aging. Special seals can be use in various environment and climate.
- Use high - purity aluminum as reflector with high efficiency of reflecting.
- Advanced technology for tempered glass, strong shock resistance and high light transmittance.
- Surface treatment of electrostatic spraying technology. Anti - corrosion performance and strong adhesion.

Applications

- Buildings, stadiums, squares, docks, green lighting, advertising, building outlines, stations, railways, tunnels, ports and other outdoor lighting.

Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 1000L/TG204	HPS 1000W	E40	220V/50Hz
HQBG - 1000L/TG204	MH 1000W	E40	220V/50Hz
HQBJ - 1000L/TG204	MH 1000W	E40	220V/50Hz

Lamp installation steps:



Lamp installation steps:

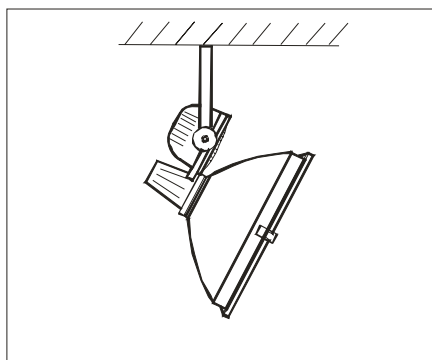
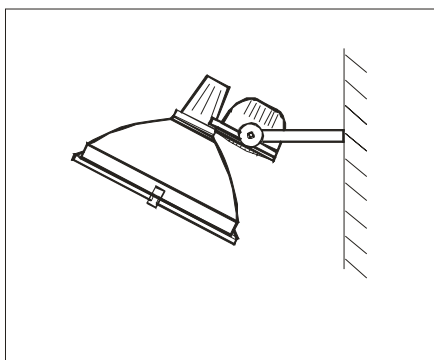
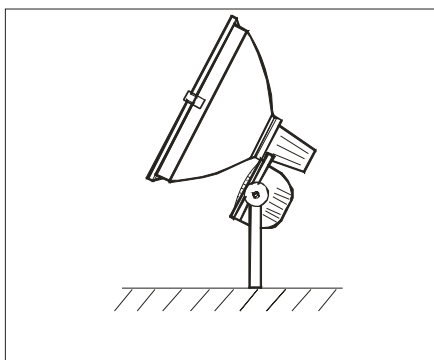
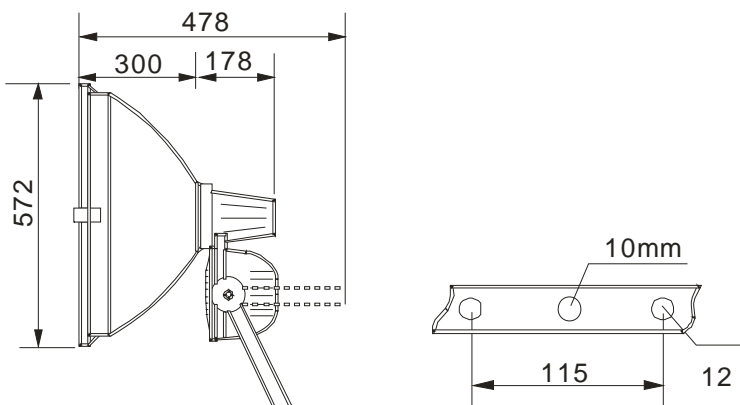
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Step Two: Open up cotton cover as shown in Figure 2.

Step three: Correctly screw the light source with adapted wattage into the lamp holder.

Step four: As shown, close the cover and press the hasp to fix the tempered glass. Take note that the cover glass and reflector must closely match to prevent water.

Luminaire installation:







Factory and mining illumination series



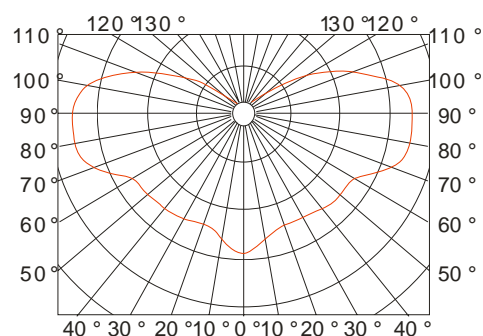
Material & Characteristic

- Use efficient, long - life gas discharge light source, life expectancy can be up to 28,500 hours with power factor above 0.9. High light - emitting efficiency and good light transmission.
- Use advanced optical and optimized lighting design for transparent parts with soft and uniform illumination. Non - glare, no ghosting and it can effectively prevent discomfort and fatigue of the operation and construction staff on spot.
- Equipped with Respirator a side so that the inside and external pressure reach balance for better performance of waterproof.
- High - strength aluminum alloy case, special sealing and surface coating which can be used for hot and humid and corrosive conditions for long time.
- Various installations like standing, ceiling and wall - fixed adapt to different working environments.

Applications

Industrial workhouse, stadium, commercial piazza, supermarket, waiting hall, toll station etc.

Luminous intensity curve

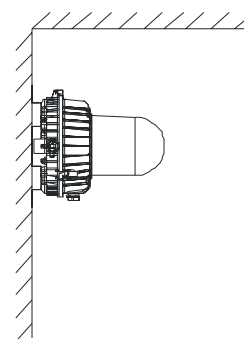
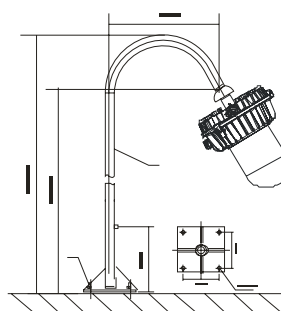
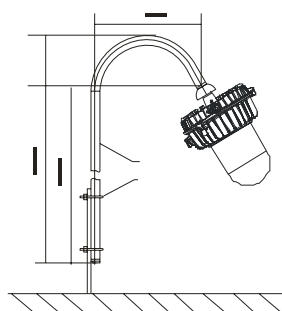
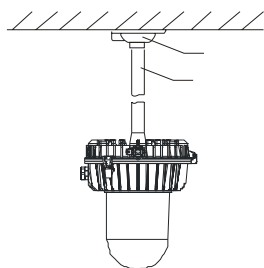
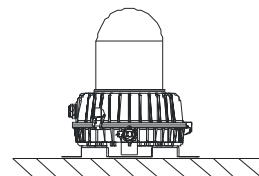
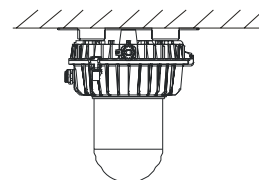
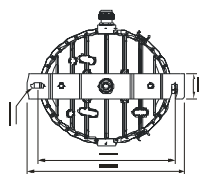
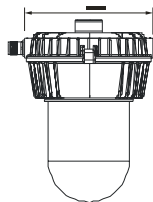
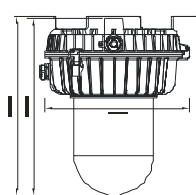


Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/GC10	MH/HPS 70W	E27	220V/50Hz
HQBN-100L/GC10	MH/HPS 100W	E27	220V/50Hz
HQBN-150L/GC10	MH/HPS 150W	E27	220V/50Hz

Luminaire installation



Material & Characteristic

- Aluminum die - casting gear boxes. External static spraying surface treatment.
- Use high efficiency reflectors with special processing technology. Reflective efficiency is up to 80%, twice more than the traditional reflectors. No oxidation for long - term use.
- Use different reflectors according to different requirements, or add the tempered glass cover onto the reflectors.
- The protection at abnormal conditions: if the lamp can not be lit at the abnormal condition, the built - in intelligent shutdown ignitor will stop working after five minutes, to avoid high voltage pulse generated by ignitor's continuous working on the HID lamps and other electrical damage to the annex, this unique design meets the intelligence requirements of the safety of electrical appliances.
- Extremely easy installation and maintenance.
- Better heat dissipation.

Applications

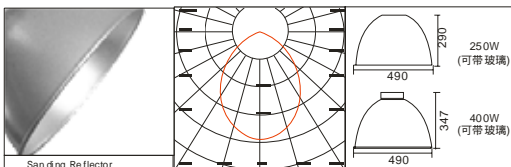
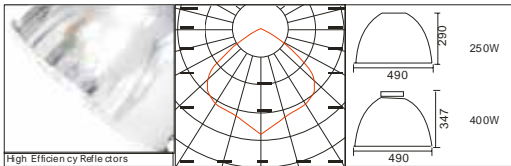
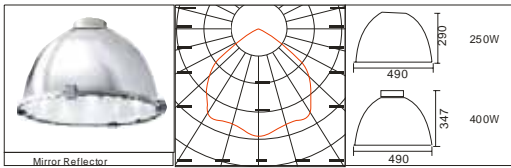
Industrial workhouse, stadium, commercial piazza, supermarket, waiting hall, toll station etc.



Product Parameter

Model	lamp	Base	Voltage & frequency
HQBN - 250L/GC11	HPS 250W	E40	220V/50Hz
HQBN - 400L/GC11	HPS 400W	E40	220V/50Hz
HQBG - 250L/GC11	MH 250W	E40	220V/50Hz
HQBG - 400L/GC11	MH 400W	E40	220V/50Hz

Adaptive Lighting Reflectors



Adaptive Lighting Reflectors

Mirror Reflector

Reflectors by electro - chemical processing: reflection efficiency slightly lower than that of the anodized treatment with a little bias light. Relatively lower cost for places with lower lighting requirements.

High Efficiency Reflectors

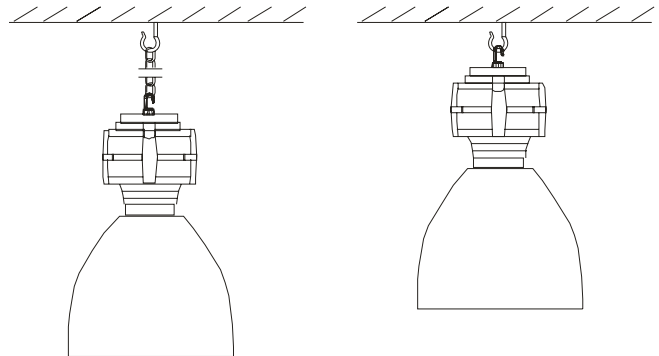
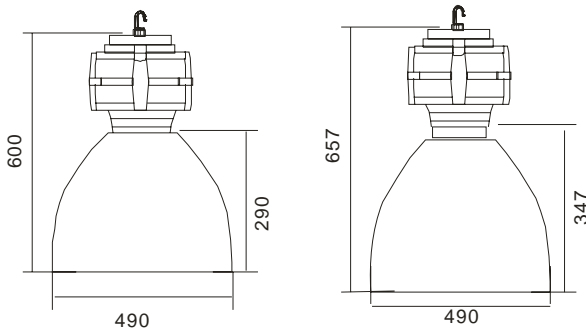
At present in the domestic market, 30% -50% of the reflectors use vacuum plating processing to improve light efficiency.

But this structure can easily have oxidation problems which obviously reduce the reflection efficiency. Our "Watran" brand lighting fixtures use high efficiency reflectors with special treatment with over 80% reflection rate. There will not be any oxidation problem for long - term use.

Sanding Reflector

Soft and uniform Light, non - glare, and slow light attenuation. Suitable for non - glare places with lower installation and luminance requirements.

Luminaire installation



Material & Characteristic

- Light metal sheet control gear with characteristics of good impact toughness
- Compact and concise appearance, easy appliance change
- Handy and various installation: clasp two hooks and fasten with screw, also can replace hooks with pipe to thread power wire into gear
- Selective reflector cover accordingly to the place: broad-light, narrow-light, explosion-proof type etc.
- The protection at abnormal conditions: if the lamp can not be lit at the abnormal condition, the built-in intelligent shutdown ignitor will stop working after five minutes, to avoid high voltage pulse generated by ignitor's continuous working on the HID lamps and other electrical damage to the annex, this unique design meets the intelligence requirements of the safety of electrical appliances.
- Customized appliance for 70W ~4000W lamp
- Good heat emitting holes around the gear to avoid high temperature during regular work; the fixture design and function are in accordance with relative secure and required national standards.



Applications

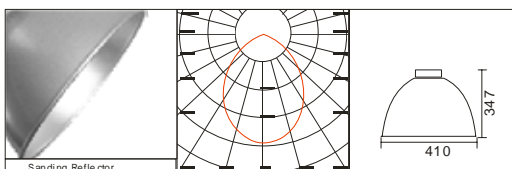
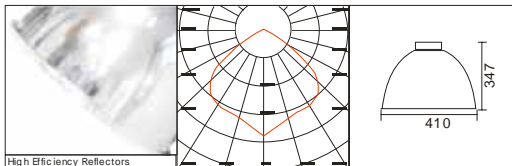
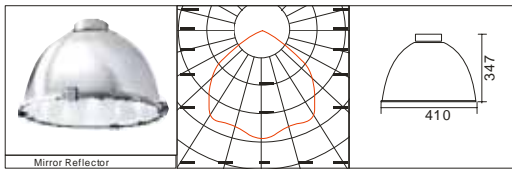
Industrial workhouse, stadium, commercial piazza, supermarket, waiting hall, toll station etc.



Product Parameter

型号 Model	光源/灯功率 lamp	灯头 Base	电压/频率 Voltage & frequency
HQBN-70L/GC7	MH/HPS 70W	E27	220V/50Hz
HQBN-150L/GC7	MH/HPS 150W	E27/E40	220V/50Hz
HQBN-250L/GC7	HPS 250W	E40	220V/50Hz
HQBN-400L/GC7	HPS 400W	E40	220V/50Hz
HQBG-250L/GC7	MH 250W	E40	220V/50Hz
HQBG-400L/GC7	MH 400W	E40	220V/50Hz

Adaptive Lighting Reflectors



Adaptive Lighting Reflectors

Mirror Reflector

Reflectors by electro-chemical processing: reflection efficiency slightly lower than that of the anodized treatment with a little bias light. Relatively lower cost for places with lower lighting requirements.

High Efficiency Reflectors

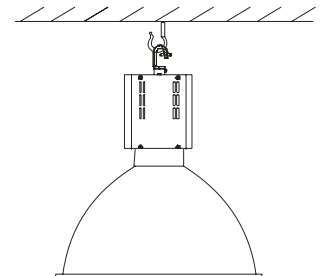
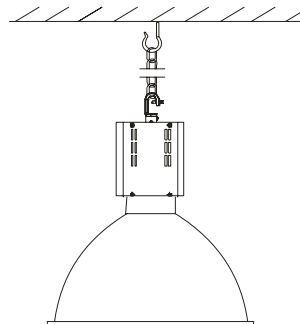
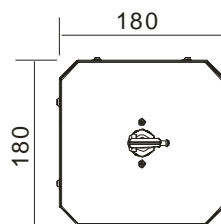
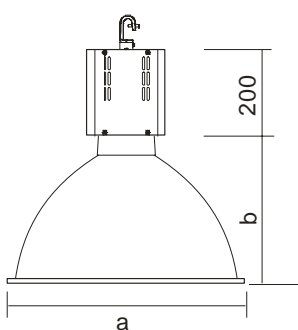
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Sanding Reflector

Soft and uniform Light, non-glare, and slow light attenuation. Suitable for non-glare places with lower installation and luminance requirements.

Luminaire installation



Material & Characteristic

- Light metal sheet control gear with characteristics of good impact toughness
- Compact and concise appearance, easy appliance change
- Handy and various installation: clasp two hooks and fasten with screw, also can replace hooks with pipe to thread power wire into gear
- Selective reflector cover accordingly to the place: broad - light, narrow - light, explosion - proof type etc.
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Applications

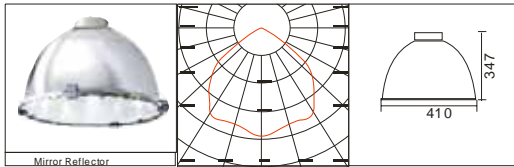
Industrial workhouse, stadium, commercial piazza, supermarket, waiting hall, toll station etc.



Product Parameter

Model	lamp	Base	Voltage & frequency
HQBN -70L/GC8	MH/HPS 70W	E27	220V/50Hz
HQBN -150L/GC8	MH/HPS 150W	E27/E40	220V/50Hz
HQBN -250L/GC8	HPS 250W	E40	220V/50Hz
HQBN -400L/GC8	HPS 400W	E40	220V/50Hz
HQBG -250L/GC8	MH 250W	E40	220V/50Hz
HQBG -400L/GC8	MH 400W	E40	220V/50Hz

Adaptive Lighting Reflectors



Adaptive Lighting Reflectors

Mirror Reflector

Reflectors by electro - chemical processing: reflection efficiency slightly lower than that of the anodized treatment with a little bias light. Relatively lower cost for places with lower lighting requirements.

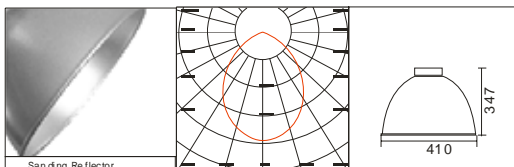
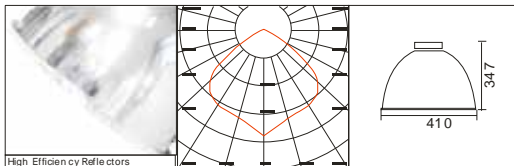
High Efficiency Reflectors

At present in the domestic market, 30% - 50% of the reflectors use vacuum plating processing to improve light efficiency.

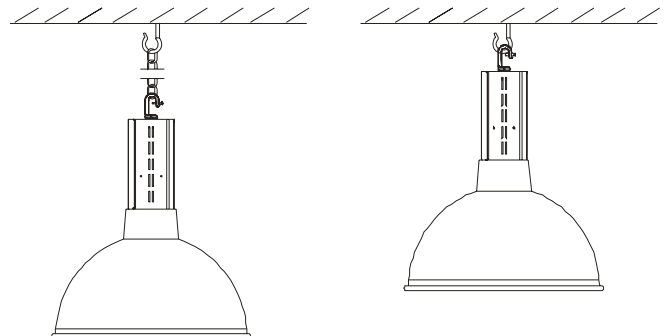
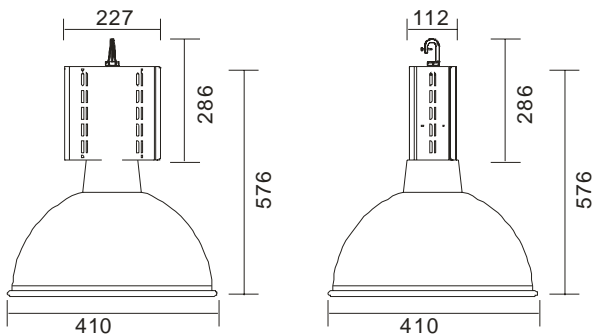
But this structure can easily have oxidation problems which obviously reduce the reflection efficiency. Our "Watran" brand lighting fixtures use high efficiency reflectors with special treatment with over 80% reflection rate. There will not be any oxidation problem for long - term use.

Sanding Reflector

Soft and uniform Light, non - glare, and slow light attenuation. Suitable for non - glare places with lower installation and luminance requirements.



Luminaire installation



Material & Characteristic

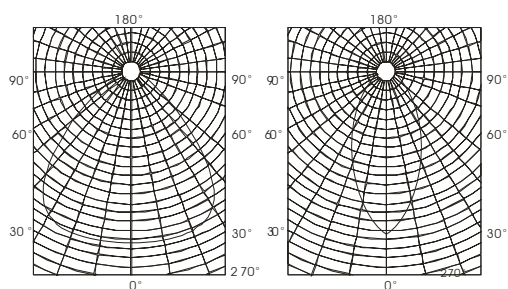
- Through advanced optical design and the special allocation process to maximize the flux of the lamps, and even soft light.
- Aluminum die-casting gearboxes, dealing with external electrostatic spray.
- The integration of design, structural beauty, anti-corrosion, waterproof, dust-proof.
- Easy to install, as long as the hook hanging on the outside of the hook, and then tighten the screw to prevent off.
- According to different requirements of different configurations of the reflectors, there are wide-ray type, narrow-light type, and installation of glass in the reflectors.
- According to sources customers can choose to increase the size or not increase the long-necked long-necked type reflectors.
- The protection at abnormal conditions: if the lamp can not be lit at the abnormal condition, the built-in intelligent shutdown ignitor will stop working after five minutes, to avoid high voltage pulse generated by ignitor's continuous working on the HID lamps and other electrical damage to the annex, this unique design meets the intelligence requirements of the safety of electrical appliances.



Applications

Industrial workhouse, stadium, commercial piazza, supermarket, waiting hall, toll station etc.

Luminous intensity curve



Product Parameter

Model	lamp	Base	Voltage & frequency
HQBN-1000L/GC14	HPS 1000W	E40	220V/50Hz
HQBG-1000L/GC14	MH 1000W	E40	220V/50Hz
HQBJ-1000L/GC14	MH 1000W	E40	220V/50Hz

Adaptive Lighting Reflectors

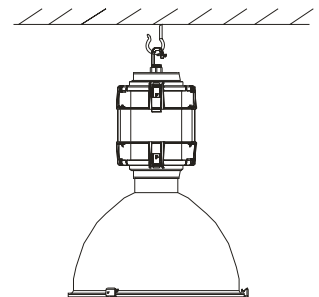
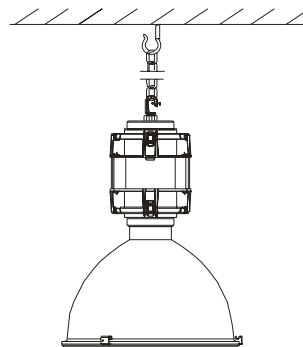
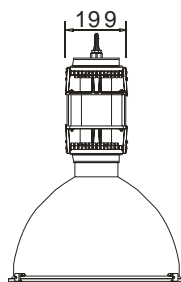
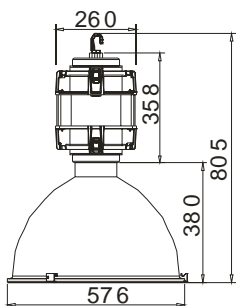


Mirror Reflector

1000W Mirror Reflector

Reflectors by anodized treatment: efficient reflection with even luminance distribution and strong anti-oxidant properties. Effectively reduce glare. Generally use in plant sites with relatively higher lighting requirements. Reflectors by electro-chemical processing: reflection efficiency slightly lower than that of the anodized treatment with a little bias light. Relatively lower cost for places with lower lighting requirements.

Luminaire installation



Material & Characteristic

- Through advanced optical design and the special allocation process to maximize the flux of the lamps, and even soft light.
- Aluminum die - casting gearboxes, dealing with external electrostatic spray.
- The integration of design, structural beauty, anti-corrosion, waterproof, dust - proof.
- Easy to install, as long as the hook hanging on the outside of the hook, and then tighten the screw to prevent off.
- According to different requirements of different configurations of the reflectors, there are wide - ray type, narrow - light type, and installation of glass in the reflectors.
- According to sources customers can choose to increase the size or not increase the long - necked long - necked type reflectors.
- The protection at abnormal conditions: if the lamp can not be lit at the abnormal condition, the built - in intelligent shutdown ignitor will stop working after five minutes, to avoid high voltage pulse generated by ignitor's continuous working on the HID lamps and other electrical damage to the annex, this unique design meets the intelligence requirements of the safety of electrical appliances.



Applications

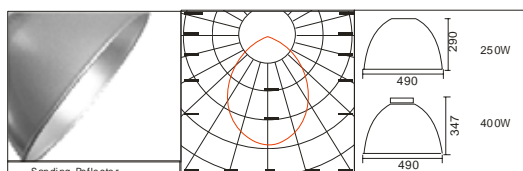
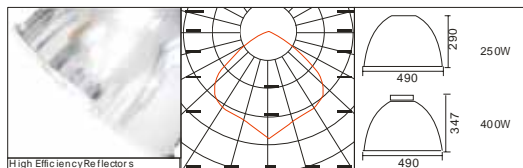
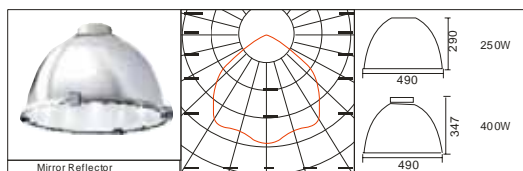
Industrial workhouse, stadium, commercial piazza, super market, waiting hall, toll station etc.



Product Parameter

Model	lamp	Base	Voltage & frequency
HQBN - 250L/GC15	HPS 250W	E40	220V/50Hz
HQBN - 400L/GC15	HPS 400W	E40	220V/50Hz
HQBG - 250L/GC15	MH 250W	E40	220V/50Hz
HQBG - 400L/GC15	MH 400W	E40	220V/50Hz

Adaptive Lighting Reflectors



Adaptive Lighting Reflectors

Mirror Reflector

Reflectors by electro-chemical processing: reflection efficiency slightly lower than that of the anodized treatment with a little bias light. Relatively lower cost for places with lower lighting requirements.

High Efficiency Reflectors

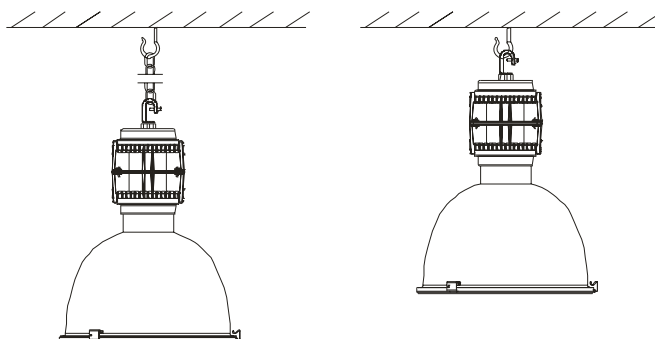
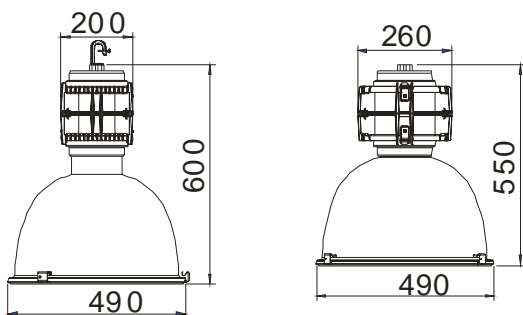
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But this structure can easily have oxidation problems which obviously reduce the reflection efficiency. Our "Watran" brand lighting fixtures use high efficiency reflectors with special treatment with over 80% reflection rate. There will not be any oxidation problem for long-term use.

Sanding Reflector

Soft and uniform Light, non-glare, and slow light attenuation. Suitable for non-glare places with lower installation and luminance requirements.

Luminaire installation





Road lighting series

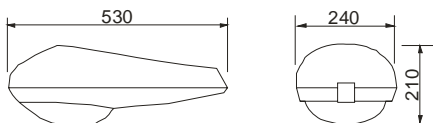
Material & Characteristic

- Case shaped by high - pressure cast aluminum, outside disposal with static electricity plastic - spur.
- Reflector shaped by high pressure aluminum board, surface disposal of positive pole oxidation.
- Stainless steel buckle.
- Prism hard glass mask.
- High - pressure silicon rubber airtight band.
- Fixing caliber 48 - 60mm.

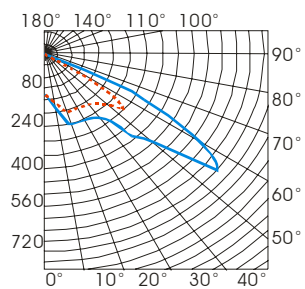
Applications

- roads of different classes

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN - 150L/LD01	HPS 150W	E40	220V/50Hz

Material & Characteristic

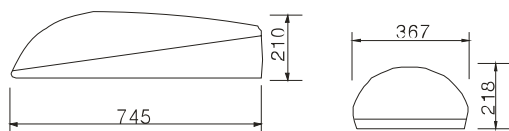
- Body, frame and backstay cast by aluminum alloy, light and solid construction, outside disposal with static electricity plastic - spur, perdurable.
- High pressure aluminum positive pole reflection, air purity breath appliance inside, assure high exportation of luminous flux and lessen the declination of reflective coefficient
- Heat resisting, materials of high transparent toughened glass, good transparency, high intensity
- Inner silicon rubber airtight ring, perfect anti - dust and anti - water performance, protective class up to Ip65, lessens the repairing incidence of the lamps.
- Stretch buckle for discharging, united design, and inner fixed electric devices, convenient for repairing.
- fixing caliber 48 - 60mm, fixing height: 8 - 12m



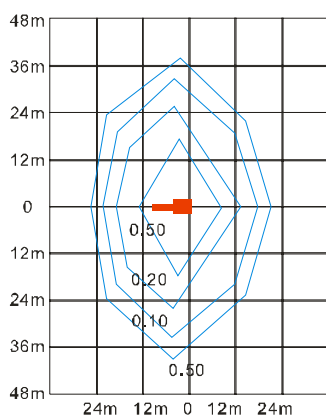
Applications

road, bridge, square, dock, parking lot, city district ect.

Size



Luminous intensity cure



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-250L/D05	HPS 250W	E40	220V/50Hz
HQBN-400L/D05	HPS 400W	E40	220V/50Hz

Road lighting series

Material & Characteristic

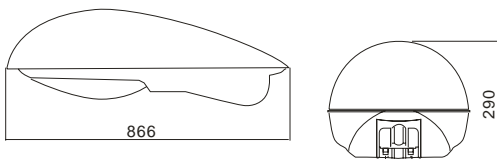
- Body of lamp shaped by high - pressure cast aluminum, outside disposal with anticorrosive static electricity plastic - spur.
- High pure aluminum positive pole reflector, high - efficient reflection.
- Materials of high transparent toughened glass, heat resisting, good transparency, and high intensity.
- Inner silicon rubber airtight ring, perfect anti - dust and anti - water performance , protective class up to IP65, lessens the repairing incidence of lamp.
- Open on top, convenient for fixing
- fixing caliber 48-60mm, fixing height: 8~12m



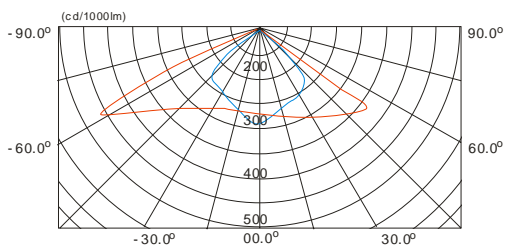
Applications

road, bridge, square, dock, parking lot, city district ect.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-150L/D09	HPS 150W	E40	220V/50Hz
HQBN-250L/D09	HPS 250W	E40	220V/50Hz
HQBN-400L/D09	HPS 400W	E40	220V/50Hz

Material & Characteristic

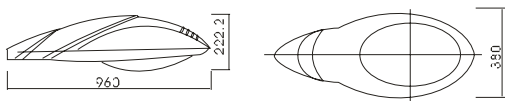
- **Product Standard:** The product is manufactured according to the GB7000.5 standard and it has obtained ISO9001 International Quality System certificate.
- **Body:** The lighting fixture design is brand new and unique. The upper and lower shields are both shaped by high pressure die-cast aluminum with outer plastic-spurt coating. The surface is high intensive with good adhesive bright colors.
- **Reflector:** The CAD-designed reflector has suitable light distribution and it is shaped by high purity aluminum plate by hydrostatic pressure process and anodized treatment, which brings excellent reflection effect.
- **Shield:** The arc shape and parallel light transmission shield uses the 5mm thickness tempered glass with good light transmittance. It is shock resistant and anti-glare.
- **Fixing Device:** The special designed junction pattern is easy for opening and maintenance with reliable locking.
- **Mounting tube diameter:** 48~60mm. Mounting height: 8~12m.



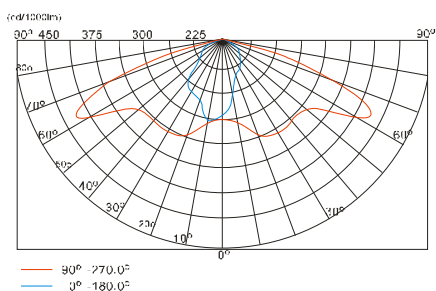
Applications

road, bridge, square, dock, parking lot, city district ect.

Size



Luminous intensity curve



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-150L/LD32	HPS 150W	E40	220V/50Hz
HQBN-250L/LD32	HPS 250W	E40	220V/50Hz
HQBN-400L/LD32	HPS 400W	E40	220V/50Hz

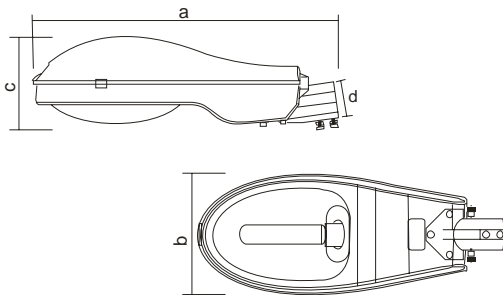
Material & Characteristic

- The body, frame and backstay cast by aluminum alloy, light and solid construction, outside disposal with static electricity plastic- spur, perdurable
- Heat resisting, materials of high transparent toughened glass, good transparency, high intensity.
- Inner silicon rubber airtight ring, perfect anti-dust and anti-water performance, protective class up to IP65, lessens the repairing incidence of the lamps.
- Stretch buckle for discharging, united design, and inner fixed electric devices, convenient for repairing.
- Fixing height: 8-12m

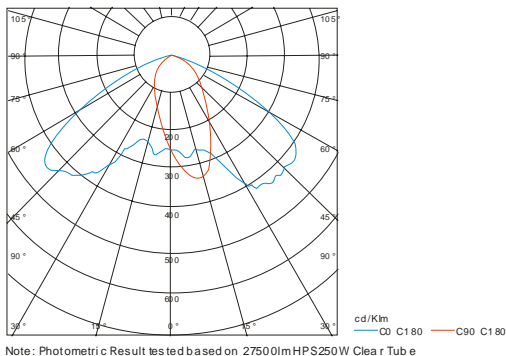
Applications

road, bridge, square, dock, parking lot, city district ect.

Size



Luminous intensity cure



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency	产品尺寸 Size(mm)			
				a	b	c	d
HQBN-70LLD34	HPS 70W	E27	220V/50Hz	500	200	136	50
HQBN-150LLD34	HPS 150W	E27/E40	220V/50Hz	639	269	170	65
HQBN-250LLD34	HPS 250W	E40	220V/50Hz	764	302	189	65

Material & Characteristic

- Lamp body can resist impact, adopt 2.7mm pinch aluminum, spraying plastic surface, able to bear the high temperature, it is good, attractive and durable to able to bear climate changes.
- The reflector is the high pure aluminum reflector can be the symmetry and asymmetry, the reflecting rate is high, guarantee the high output of the luminous flux. Reflector design combine electric arc of light source in charge of position, control the glare effectively.
- Heat resisting, materials of high transparent toughened glass, good transparency, and high intensity.
- The lamp is opened and does not need tools, light source and electric appliance are maintained and change is extremely convenient.
- Lamp and lanterns of inner have silicon rubber airtight ring, perfect airproof performance, anti-dust and anti-water, protective class up to Ip65.

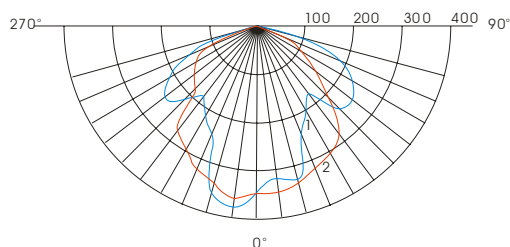


Applications

Tunnel, toll station, trestle, parking lot, square etc.

Luminous intensity curve

Luminous intensity curve

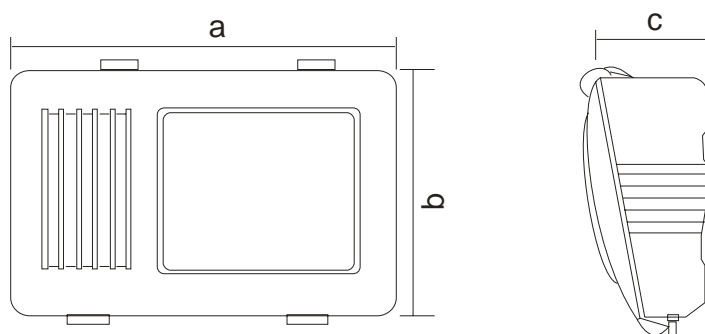


Product Parameter

IP65

Model	lamp	Base	Voltage & frequency	Size(mm)		
				a	b	c
HQBN-150L/LD29G	HPS 150W	E40	220V/50Hz	450	340	180
HQBN-250L/LD29G	HPS 250W	E40	220V/50Hz	450	340	180
HQBN-250L/LD29H	HPS 250W	E40	220V/50Hz	610	435	192
HQBN-450L/LD29H	HPS 400W	E40	220V/50Hz	610	435	192

Luminaire installation



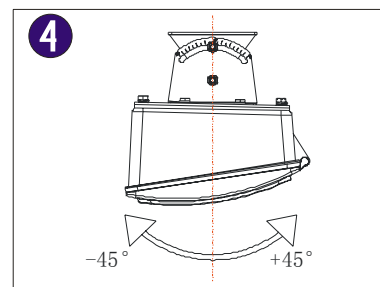
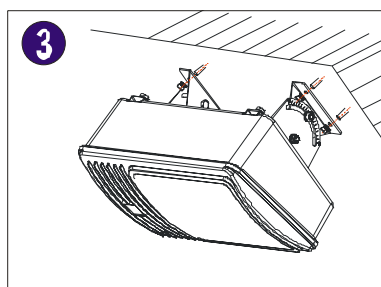
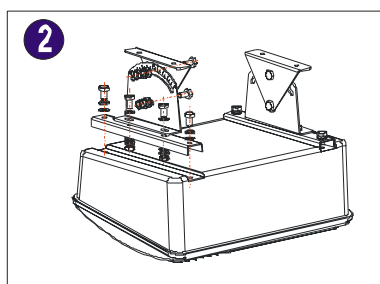
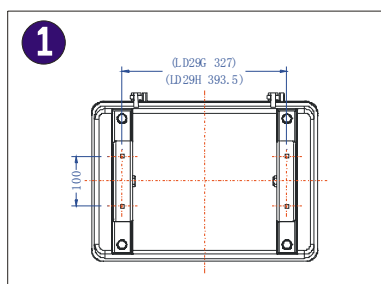
Fixtures installation steps:

Step One: Luminaire mounting hole size for tunnel mounting hole drilling. Please drill as per the correct hole size. It is recommended to use M10 screw.

Step Two: Mounting bracket assembly. Please assemble according to the drawing and the provided parts package. And lock the screws and nuts tightly. Each luminaire uses two sets of brackets.

Step three: As shown in the drawing, please install the luminaire to the drilled screws in the tunnel, and lock tight the nuts.

Step four: The luminaire can be adjusted in the bracket fulcrum with in plus and minus 45 °



Material & Characteristic

- Lamp body can resist impact, adopt 2.7mm pinch aluminum, spraying plastic surface, able to bear the high temperature, it is good, attractive and durable to able to bear climate changes.
- The reflector is the high pure aluminum reflector can be the symmetry and asymmetry, the reflecting rate is high, guarantee the high output of the luminous flux. Reflector design combine electric arc of light source in charge of position, control the glare effectively.
- Heat resisting, materials of high transparent toughened glass, good transparency, and high intensity.
- The lamp is opened and does not need tools, light source and electric appliance are maintained and change is extremely convenient.
- Lamp and lanterns of inner have silicon rubber airtight ring, perfect airproof performance, anti-dust and anti-water, protective class up to Ip65.

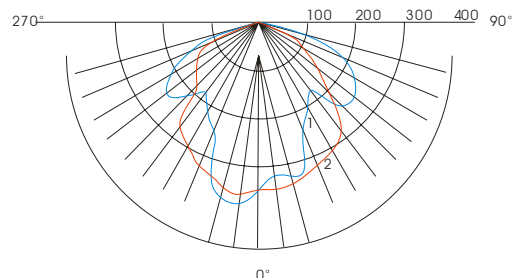


Applications

Tunnel, toll station, trestle, parking lot, square etc.

Luminous intensity curve

Luminous intensity curve

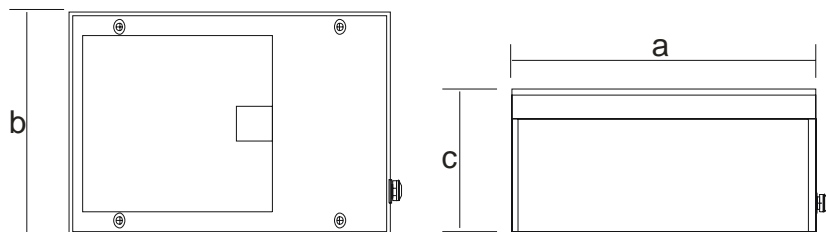


Product Parameter

IP65

Model	lamp	Base	Voltage & frequency	Size(mm)		
				a	b	c
HQBN-70L/LD29E	HPS 70W	E27/E40	220V/50Hz	600	325	165
HQBN-100L/LD29E	HPS 100W	E27/E40	220V/50Hz	600	325	165
HQBN-150L/LD29E	HPS 150W	E27/E40	220V/50Hz	600	325	165
HQBN-250L/LD29F	HPS 250W	E40	220V/50Hz	700	325	165
HQBN-400L/LD29F	HPS 400W	E40	220V/50Hz	700	325	165

Luminaire installation



Fixtures installation steps:

Step One: Luminaire mounting hole size for tunnel mounting hole drilling. Please drill as per the correct hole size. It is recommended to use M10 screw.

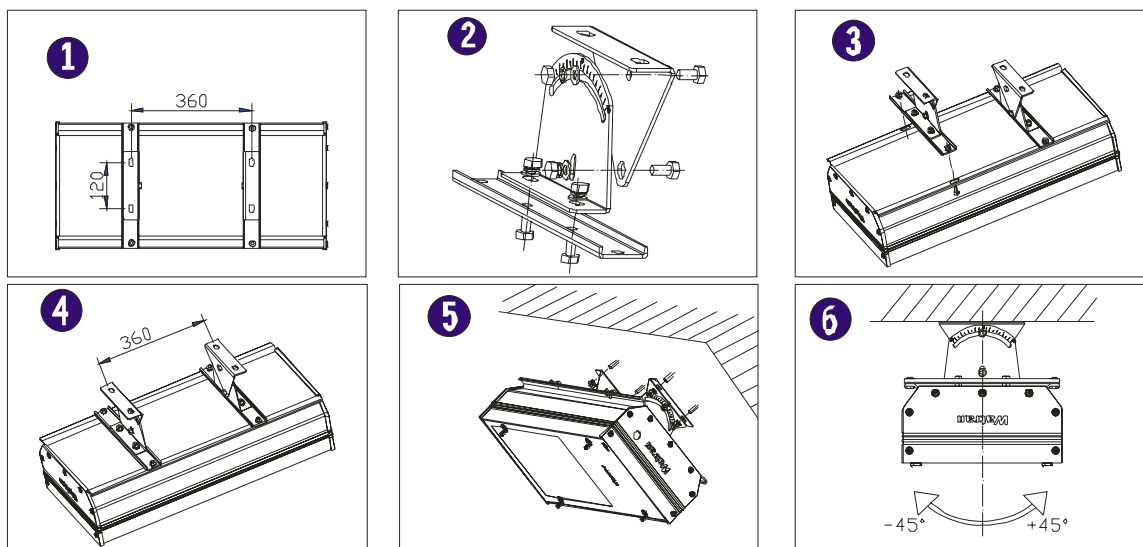
Step Two: Mounting bracket assembly. Please assemble according to the drawing and the provided parts package. Each luminaire uses two sets of brackets.

Step three: Fix the lamp body and mounting brackets as shown. And lock the screws and nuts tightly.

Step four: Make sure the lamp and mounting brackets are installed perfectly according to the shown sizes for easy installation.

Step Five: As shown in the drawing, please install the luminaire to the drilled screws in the tunnel, and lock tight the nuts.

Step Six: The luminaire can be adjusted in the bracket fulcrum within plus and minus 45 °



Material & Characteristic

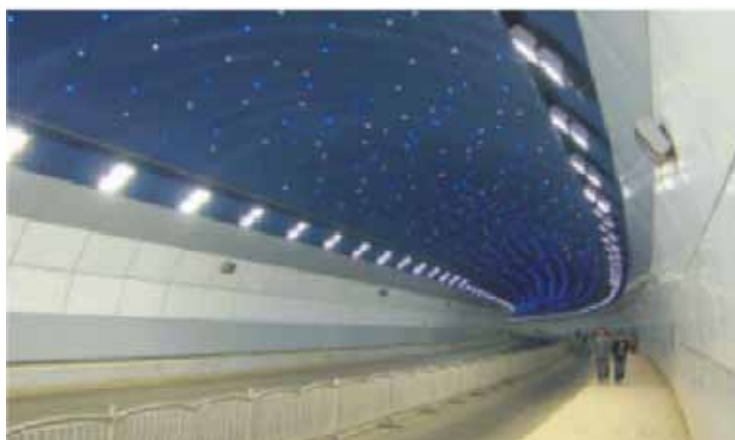
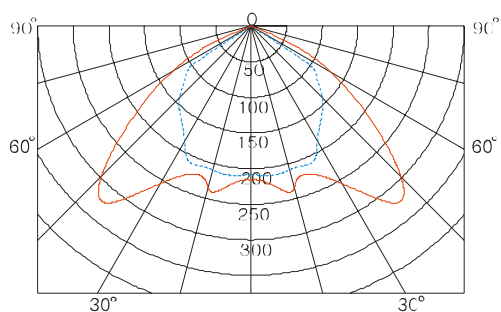
- Lamp body can resist impact, adopt 2.7mm pin ch aluminum, spraying plastic surface, able to bear the high temperature, it is good, attractive and durable to able to bear climate changes.
- The reflector is the high pure aluminum reflector can be the symmetry and asymmetry, the reflecting rate is high, guarantee the high output of the luminous flux. Reflector design combine electric arc of light source in charge of position, control the glare effectively.
- Heat resisting, materials of high transparent toughened glass, good transparency, and high intensity.
- The lamp is opened and does not need tools, light source and electric appliance are maintained and change is extremely convenient.
- Lamp and lanterns of inner have silicon rubber airtight ring, perfect airproof performance, anti-dust and anti-water, protective class up to Ip65.



Applications

Tunnel, toll station, trestle, parking lot, square etc.

Luminous intensity curve

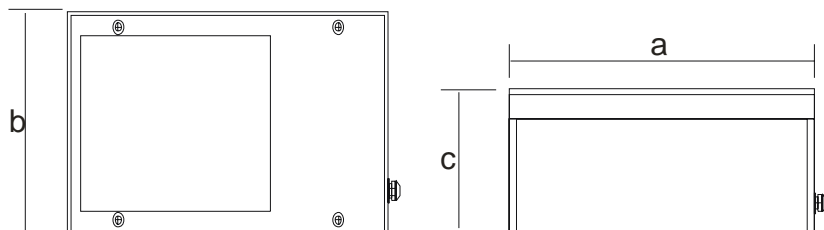


Product Parameter

IP
65

Model	lamp	Voltage & frequency	Size(mm)		
			a	b	c
WLD29E	无极灯 70W	220V/50Hz	650	325	165
WLD29E	无极灯 100W	220V/50Hz	650	325	165
WLD29F	无极灯 150W	220V/50Hz	705	325	165

Luminaire installation



Fixtures installation steps:

Step One: Luminaire mounting hole size for tunnel mounting hole drilling. Please drill as per the correct hole size. It is recommended to use M10 screw.

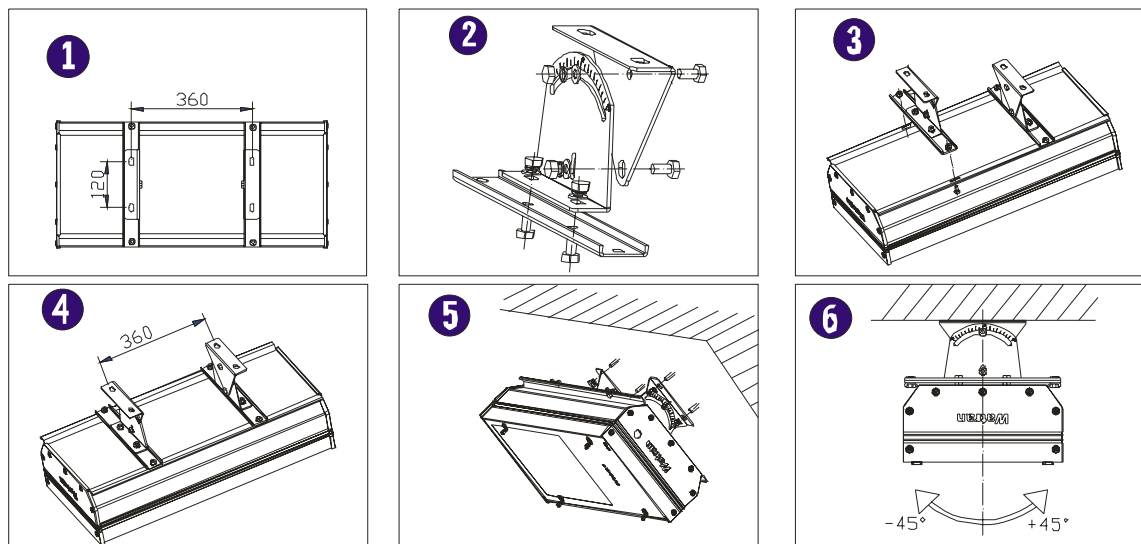
Step Two: Mounting bracket assembly. Please assemble according to the drawing and the provided parts package. Each luminaire uses two sets of brackets.

Step three: Fix the lamp body and mounting brackets as shown. And lock the screws and nuts tightly.

Step four: Make sure the lamp and mounting brackets are installed perfectly according to the shown sizes for easy installation.

Step Five: As shown in the drawing, please install the luminaire to the drilled screws in the tunnel, and lock tight the nuts.

Step Six: The luminaire can be adjusted in the bracket fulcrum within plus and minus 45 °



Material & Characteristic

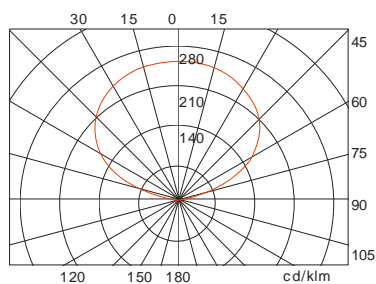
- Impact-resistant performance: die-casting aluminum housing, molding in one time. electrostatic painting for surface, anti-high temperature, endure wicked climate, with good looking and long service life.
- Glass shade: 250 high temperature resistant plate tempered glass, 5mm in thickness, using the electrostatic painting for the surface, flexibility & stainless steel fastener.
- Reflector: imported aluminum anodic alumina plate.
- Sealing tape: silicone sealing, above 200 high temperature resistance.
- Adopted anti-shock bracket.
- Pre-open design, a fixed fastener, can be opened by hand, convenient maintenance.
- Solid, reliable structure, easy maintenance.
- Added the fuse in the gear box, improve the safety performance of the appliance, and reduce the safe hidden trouble.



Applications

Tunnel, toll station, trestle, parking lot, square etc.

Luminous intensity curve

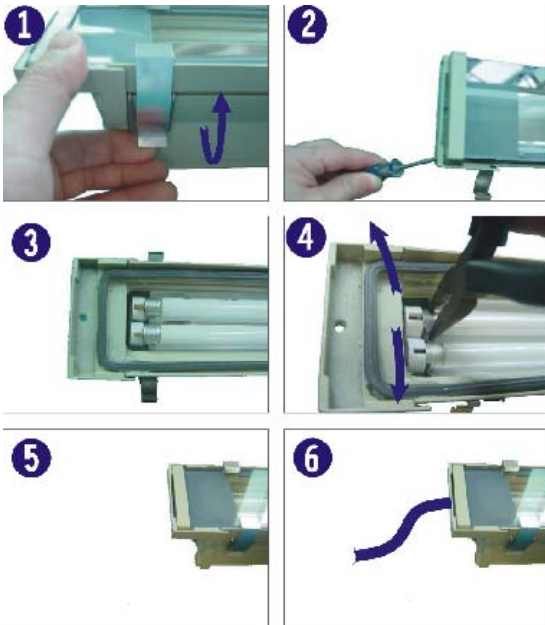


Product Parameter

IP65

Model	lamp	Voltage & frequency	Size(mm)		
			a	b	c
TTG02/214	T5荧光灯 2X14W	220V/50Hz	655	90	90
TTG02/221	T5荧光灯 2X21W	220V/50Hz	955	90	90
TTG02/228	T5荧光灯 2X28W	220V/50Hz	1255	90	90
TTG02/235	T5荧光灯 2X35W	220V/50Hz	1555	90	90

Luminaire installation



Lamp installation steps:

Step One: Open the fastener of the lighting fixture, as shown in picture 1.

Step Two: Choose the adapted bulb, put into the lamp holders.

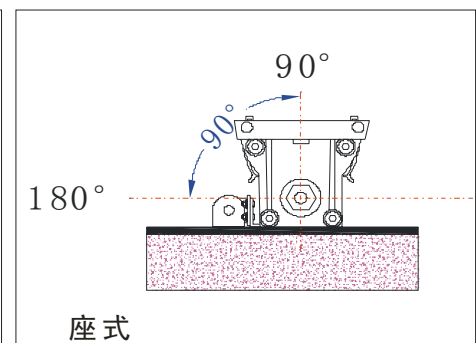
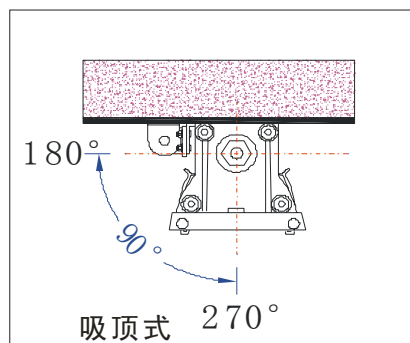
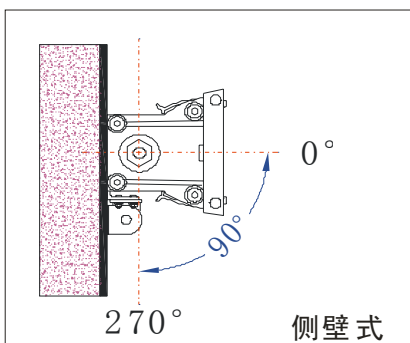
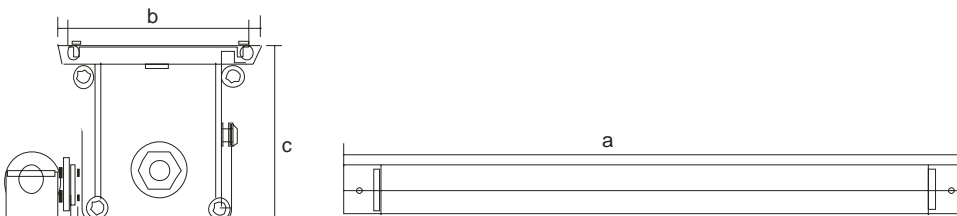
Step three: Open the fastener of the lighting fixture, and remove the glass of the fixture.

Step four: Put the bulb into the holder, use a pincer to clamp the metal of the bulb, then rotate the bulb in the direction as picture 4 shown, the turning angle is 90° .

Step Five: Install the bulb, and covered with glass, keep the surface of silk - screen inside, then fasten the glass fastener, as shown in picture 5.

Step Six: Install the lighting fixture as require, then put the exposed cables into the lighting fixture.

Luminaire installation







Courtyard lighting series



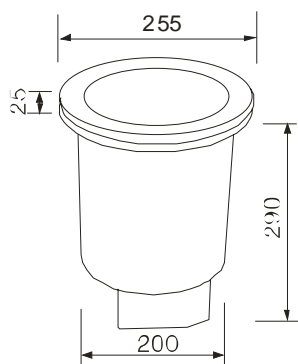
Material & Characteristic

- Exat high pressure die - casting aluminum lamp body and surface gasket, the thickness of surface gasket is 6mm.
- 5mm strengthen glass, tailor - made hermetic loop of silicagel.
- Class I insulation.
- High class of waterproof and dustproof.

Applications

Path, road along river, park, square, courtyard, commercial area etc.

Size



Product Parameter

IP67

Model	lamp	Base	Voltage & frequency
HQBN-35L/MD201	MH 35W	G12	220V/50Hz
HQBN-70L/MD201	MH 70W	G12/Rx7s	220V/50Hz
HQBN-150L/MD201	MH 150W	G12/Rx7s	220V/50Hz

Courtyard lighting series

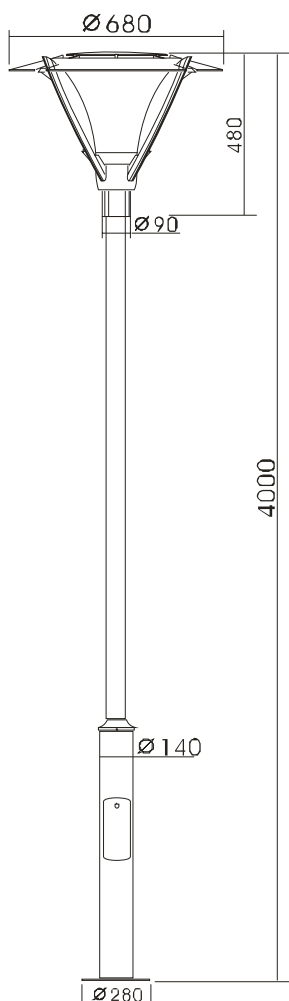
Material & Characteristic

- Main body cast by aluminum alloy, outside disposal with anticorrosive static electricity plastic - spur, perdurable.
- Polymeric carbon fiber transparent mask with high intensity prism, good transparency, high intensity, low dazzle.
- Open on top, convenient for changing of illuminant and repairing.
- Fixing caliber 60~110mm.
- Fixing height: 3~4m.

Applications

Path, road along river, park, square, courtyard, commercial area etc.

Size



Product Parameter

IP43

Model	lamp	Base	Voltage & frequency
HQBN-70L/TY01	MH 70W	E27/Rx7s	220V/50Hz
HQBN-150L/TY01	MH 150W	E27/Rx7s	220V/50Hz

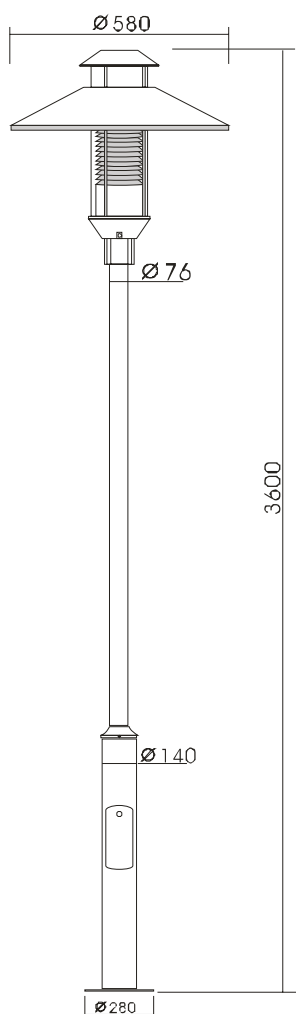
Material & Characteristic

- Main body cast by aluminum alloy, outside disposal with anti corrosive static electricity plastic - spur, perdurable.
- Fence reflective mask made by high quality aluminum, butterfly - shaped match light with elaborate design, lessen unnecessary lighting pollution.
- Adopt high intensity transparent mask, high transparency. Protective class Ip55.
- Convenient for opening, changing of illuminant and repairing.
- Fixing caliber 60~110mm.
- Fixing height: 3~4m.

Applications

Path, road along river, park, square, courtyard, commercial area etc .

Size



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/TY03	MH 70W	E27/Rx7s	220V/50Hz
HQBN-150L/TY03	MH 150W	E27/Rx7s	220V/50Hz

Courtyard lighting series

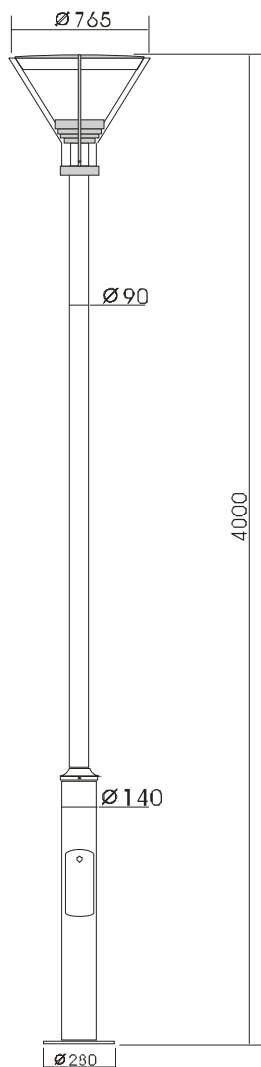
Material & Characteristic

- Main body cast by aluminum alloy, outside disposal with anti corrosive static electricity plastic surface, per durable.
- Lamp - chimney of reflective lighting, in directive lighting, low dazzle, symmetrical and soft light.
- Adopt transparency with plane-toughened glass, good transparency.
- Convenient for opening, changing of illuminant and repairing.
- Fixing caliber 60~90mm.
- Fixing height: 4~5m.

Applications

Path, road along river, park, square, courtyard, commercial area etc.

Size



Product Parameter

IP65

Model	lamp	Base	Voltage & frequency
HQBN-70L/TY05	MH 70W	E27/Rx7s	220V/50Hz
HQBN-150L/TY05	MH 150W	E27/Rx7s	220V/50Hz

AC:220V ~ 230V/50Hz

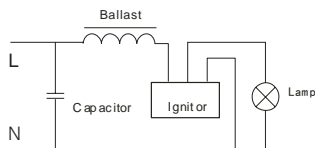
Model	Code	Lamp wattage W	Working current A	Ballast	Ignitor	Capacitor	Wiring diagram
High - pressure sodium lamp electric appliance(Impedance)							
HQ/NG50-T	2610203001	50	0.76	HQ220050NG50Z	HQCD-7	HQCC-8	A
HQ/NG70-T	2610204001	70	0.98	HQ220050NG70Z	HQCD-7	HQCC-12	A
HQ/NG100-T	2610206001	100	1.20	HQ220050NG100Z	HQCD-7	HQCC-12	A
HQ/NG110-T	2610207001	110	1.20	HQ220050NG110Z	HQCD-7	HQCC-12	A
HQ/NG150-T1	2610209001	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A
HQ/NG150-T2	2610209002	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A
HQ/NG250-T	2610212001	250	3.00	HQ220050NG250Z	HQCD-7	HQCC-32	A
HQ/NG400-T	2610217001	400	4.60	HQ220050NG400Z	HQCD-7	HQCC-50	A
HQ/NG600-T	2610219001	600	6.20	HQ220050NG600Z	HQIG-N	HQCC-60	A
HQ/NG1000-T	2610222001	1000	10.30	HQ220050NG1000Z	HQIG-N	HQCC-100	A
High - pressure sodium lamp electric appliance(Impedance)							
HQ/NG70-ED1	2610204009	70	0.98	HQ220050NG70Z	HQCD-7	HQCC-12	A
HQ/NG70-ED2	2610204004	70	0.98	HQ220050NG70Z	HQCD-7	HQCC-12	A
HQ/NG100-ED1	2610206007	100	1.20	HQ220050NG100Z	HQCD-7	HQCC-12	A
HQ/NG100-ED2	2610206005	100	1.20	HQ220050NG100Z	HQCD-7	HQCC-12	A
HQ/NG150-ED1	2610209010	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A
HQ/NG150-ED2	2610209009	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A
HQ/NG150-BT	2610209005	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A
HQ/NG250-BT	2610212003	250	3.00	HQ220050NG250Z	HQCD-7	HQCC-32	A
HQ/NG400-BT	2610217004	400	4.60	HQ220050NG400Z	HQCD-7	HQCC-50	A
High - pressure sodium lamp coated bulb electric appliance(Impedance)							
HQ/NG70-ED1/P	2610204005	70	0.98	HQ220050NG70Z	HQCD-7	HQCC-12	A
HQ/NG70-ED2/P	2610204006	70	0.98	HQ220050NG70Z	HQCD-7	HQCC-12	A
HQ/NG100-ED1/P	2610206006	100	1.20	HQ220050NG100Z	HQCD-7	HQCC-12	A
HQ/NG100-ED2/P	2610206003	100	1.20	HQ220050NG100Z	HQCD-7	HQCC-12	A
HQ/NG150-ED1/P	2610209006	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A
HQ/NG150-ED2/P	2610209007	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A
HQ/NG250-BT/P	2610212004	250	3.00	HQ220050NG250Z	HQCD-7	HQCC-32	A
Double - ended high pressure sodium lamp electric appliance(Impedance)							
HQ/NG70-TD	2610204003	70	0.98	HQ220050NG70Z	HQCD-7	HQCC-12	A
HQ/NG150-TD	2610209003	150	1.80	HQ220050NG150Z	HQCD-7	HQCC-18	A

AC:220V ~ 230V/50Hz

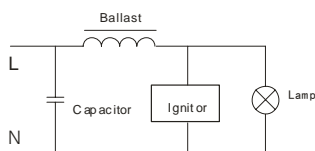
Model	Code	Lamp wattage W	Working current A	Ballast	Ignitor	Capacitor	Wiring diagram
Low - power European standard metal halide lamp electric appliance(Impedance)							
HQ/JLZ50 - ED	262 0903004	50	0.62	HQ220050NG50Z	HQCD - 7	HQCC - 8	A
HQ/JLZ70 - ED1	261 0904014	70	0.98	HQ220050NG70Z	HQCD - 7	HQCC - 12	A
HQ/JLZ70 - ED2	261 0904009	70	0.98	HQ220050NG70Z	HQCD - 7	HQCC - 12	A
HQ/JLZ100 - ED1	261 0906001	100	1.10	HQ220050NG100Z	HQCD - 7	HQCC - 12	A
HQ/JLZ100 - ED2	261 0906004	100	1.10	HQ220050NG100Z	HQCD - 7	HQCC - 12	A
HQ/JLZ150 - ED1	261 0909020	150	1.80	HQ220050NG150Z	HQCD - 7	HQCC - 18	A
HQ/JLZ150 - ED2	261 0909008	150	1.80	HQ220050NG150Z	HQCD - 7	HQCC - 18	A
American standard metal halide lamp with Ellipital bulbs electric appliance(Impedance)							
HQ/JLZ175 - ED1	261 0410001	175	1.50	HQ220050GG Y175Z	HQIG - NGL	HQCC - 12	A
HQ/JLZ175 - ED2	261 0410002	175	1.50	HQ220050GG Y175Z	HQIG - NGL	HQCC - 12	A
HQ/JLZ250 - ED	261 0412005	250	2.10	HQ220050GG Y250Z	HQIG - NGL	HQCC - 18	A
HQ/JLZ400 - ED	261 0417006	400	3.25	HQ220050GG Y400Z	HQIG - NGL	HQCC - 28	A
American standard metal halide lamp with Ellipital bulbs electric appliance(leakage magnetic)							
HQ/JLZ175 - ED1	261 0410001	175	1.50	HQ220050JLZ175Z	—	HQCS - 13	D
HQ/JLZ175 - ED2	261 0410002	175	1.50	HQ220050JLZ175Z	—	HQCS - 13	D
HQ/JLZ250 - ED	261 0412005	250	2.10	HQ220050JLZ250Z	—	HQCS - 19	D
HQ/JLZ400 - ED	261 0417006	400	3.25	HQ220050JLZ400Z	—	HQCS - 28	D
HQ/JLZ1000 - BT	261 0422001	1000	4.10	HQ220050JLZ1000Z	—	HQCS - 30	D
HQ/JLZ2000 - BT	261 0426001	2000	10.30	HQ220050MH2000LTC	HQIG - N3	HQCS - 68	D
Metal halide with coated bulb electric appliance(Impedance)							
HQ/JLZ175 - ED/P	261 0410009	175	1.50	HQ220050GG Y175Z	HQIG - NGL	HQCC - 12	A
HQ/JLZ250 - ED/P	261 0412010	250	2.10	HQ220050GG Y250Z	HQIG - NGL	HQCC - 18	A
HQ/JLZ400 - ED/P	261 0417001	400	3.25	HQ220050GG Y400Z	HQIG - NGL	HQCC - 28	A
European standard metal halide lamp with single - ended electric appliance(Impedance)							
HQ/MH1000 - TT	261 0922001	1000	8.25	HQ220050MH1000Z	HQIG - N	HQCC - 64	A
American standard metal halide lamp with single - ended electric appliance(Impedance)							
HQ/JLZ70 - T	261 0904005	70	0.98	HQ220050NG70Z	HQIG - NGL	HQCC - 12	A
HQ/JLZ100 - T	261 0906007	100	1.20	HQ220050NG100Z	HQIG - NGL	HQCC - 12	A
HQ/JLZ150 - T	261 0909009	150	1.80	HQ220050NG150Z	HQIG - NGL	HQCC - 18	A
HQ/JLZ175 - T1	261 0410006	175	1.50	HQ220050GG Y175Z	HQIG - NGL	HQCC - 12	A
HQ/JLZ175 - T2	261 0410007	250	2.10	HQ220050GG Y175Z	HQIG - NGL	HQCC - 18	A
HQ/JLZ250 - T	261 0412001	250	2.10	HQ220050GG Y250Z	HQIG - NGL	HQCC - 18	A
HQ/JLZ400 - TO	261 0417004	400	3.25	HQ220050GG Y400Z	HQIG - NGL	HQCC - 28	A
American standard metal halide lamp with single - ended electric appliance(leakage magnetic)							
HQ/JLZ175 - T	261 0410006	175	1.50	HQ220050JLZ175Z	—	HQCS - 13	D
HQ/JLZ250 - T	261 0412001	250	2.10	HQ220050JLZ250Z	—	HQCS - 19	D
HQ/JLZ400 - TO	261 0417004	400	3.25	HQ220050JLZ400Z	—	HQCS - 28	D
HQ/JLZ1000 - TT	261 0422003	1000	4.10	HQ220050JLZ1000Z	—	HQCS - 30	D
Metal Halide lamp(special for fisher lighting) electric appliance(leakage magnetic)							
HQ/JLZ1000 - BT	261 0422002	1000	4.10	HQ220050JLZ1000Z	—	HQCS - 30	D
HQ/JLZ2000 - BT	261 0426003	2000	10.30	HQ220050MH2000LTC	HQIG - N3	HQCS - 68	G
HQ/JLZ2000 - TT	261 0426004	2000	10.30	HQ220050MH2000LTC	HQIG - N3	HQCS - 68	G
Low - power double - ended metal halide lamp electric appliance(Impedance)							
HQ/MH70 - TD	261 0904002	70	0.98	HQ220050NG70Z	HQCD - 7	HQCC - 12	A
HQ/MH100 - TD	261 0906002	100	1.10	HQ220050NG150Z	HQCD - 7	HQCC - 12	A
HQ/MH150 - TD	261 0909001	150	1.80	HQ220050NG150Z	HQCD - 7	HQCC - 18	A

AC:220V ~ 230V/50Hz

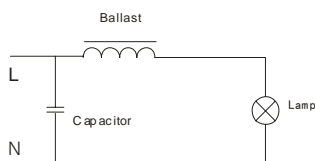
Model	Code	Lamp wattage W	Working current A	Ballast	Ignitor	Capacitor	Wiring diagram
G12 Metal Halide lamp electric appliance(Impedance)							
HQ/MH70 - T3	2610904007	70	0.98	HQ220050NG70Z	HQCD - 7	HQCC - 12	A
HQ/MH100 - T3	2610906009	100	1.10	HQ220050NG100Z	HQCD - 7	HQCC - 12	A
HQ/MH150 - T3	2610909022	150	1.80	HQ220050NG150Z	HQCD - 7	HQCC - 18	A
Color metal halide lamps electric appliance(Impedance)							
HQ/JLC70 - ED	2610404001	70	0.98	HQ220050NG70Z	HQCD - 7	HQCC - 12	A
HQ/JLC150 - ED	2610409001	150	1.80	HQ220050NG150Z	HQCD - 7	HQCC - 18	A
HQ/JLC175 - T/ED	2610410004	175	1.50	HQ220050GGY175Z	HQIG - NGL	HQCC - 12	A
HQ/JLC250 - T/ED	2610412004	250	2.13	HQ220050GGY250Z	HQIG - NGL	HQCC - 18	A
HQ/JLC400 - TO/ED	2610417002	400	3.25	HQ220050GGY400Z	HQIG - NGL	HQCC - 28	A
PS Metal Halide lamp electric appliance(Impedance)							
HQ/PS175 - ED	2610410101	175	1.50	HQ220050GGY175Z	HQIG - NGL	HQCC - 12	A
HQ/PS175 - ED2	2610410102	175	1.50	HQ220050GGY175Z	HQIG - NGL	HQCC - 12	A
HQ/PS250 - ED	2610412104	250	2.13	HQ220050GGY250Z	HQIG - NGL	HQCC - 18	A
HQ/PS250 - T	2610412105	250	2.13	HQ220050GGY250Z	HQIG - NGL	HQCC - 18	A
HQ/PS400 - TO	2610417104	400	3.25	HQ220050GGY400Z	HQIG - NGL	HQCC - 28	A
HQ/PS400 - ED	2610417103	400	3.25	HQ220050GGY400Z	HQIG - NGL	HQCC - 28	A
UPS Metal Halide lamp electric appliance(Impedance)							
HQ/UPS250 - ED	2610412102	250	2.13	HQ220050GGY250Z	HQIG - NGL	HQCC - 18	A
HQ/UPS400 - ED	2610417102	400	3.25	HQ220050GGY400Z	HQIG - NGL	HQCC - 28	A
HQ/UPS250 - T	2610412103	250	2.13	HQ220050GGY250Z	HQIG - NGL	HQCC - 18	A
HQ/UPS400 - TO	2610417105	400	3.25	HQ220050GGY400Z	HQIG - NGL	HQCC - 28	A
High pressure fluorescent mercury bulb electric appliance(Impedance)							
HQ/GGY50 - ED	2610103001	50	0.61	HQ220050GGY50Z	-	HQCC - 6	C
HQ/GGY80 - ED	2610105002	80	0.85	HQ220050GGY80Z	-	HQCC - 8	C
HQ/GGY125 - ED	2610108001	125	1.15	HQ220050GGY125Z	-	HQCC - 10	C
HQ/GGY175 - ED	2610110002	175	1.50	HQ220050GGY175Z	-	HQCC - 12	C
HQ/GGY250 - ED	2610112001	250	2.13	HQ220050GGY250Z	-	HQCC - 18	C
HQ/GGY400 - ED	2610117001	400	3.25	HQ220050GGY400Z	-	HQCC - 28	C
HQ/GGY1000 - BT	2610122001	1000	7.50	HQ220050GGY1000Z	-	HQCC - 55	C
Self - ballasted high pressure fluorescent mercury bulb electric appliance(Impedance)							
HQ/GYZ125 - ED	2610108002	125	-	-	-	-	L
HQ/GYZ160 - ED	2610131001	160	-	-	-	-	L
HQ/GYZ250 - ED	2610112002	250	-	-	-	-	L
HQ/GYZ400 - ED	2610132001	400	-	-	-	-	L



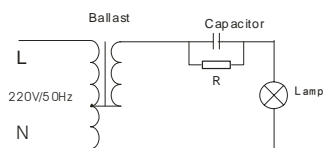
Wiring diagram A



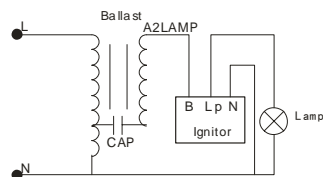
Wiring diagram B



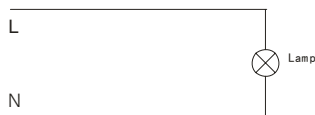
Wiring diagram C



Wiring diagram D



Wiring diagram G



Wiring diagram L





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