



Street Lamps

BAT53-250, BAT53-400 Series

BAD91-250, BAD91-400 Series

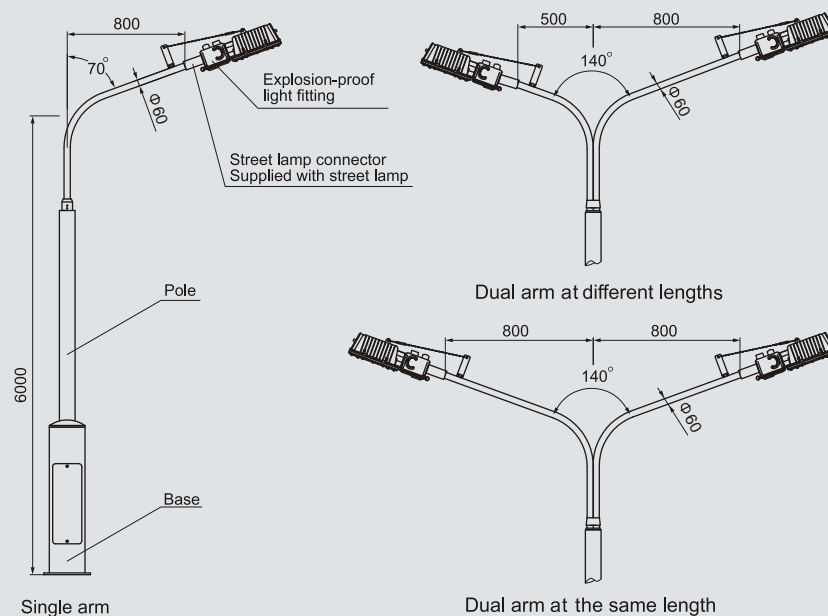
BDD91-150, BDD91-250, BDD91-400 Series

BnT81 Series

Explosion-proof Street Lamps

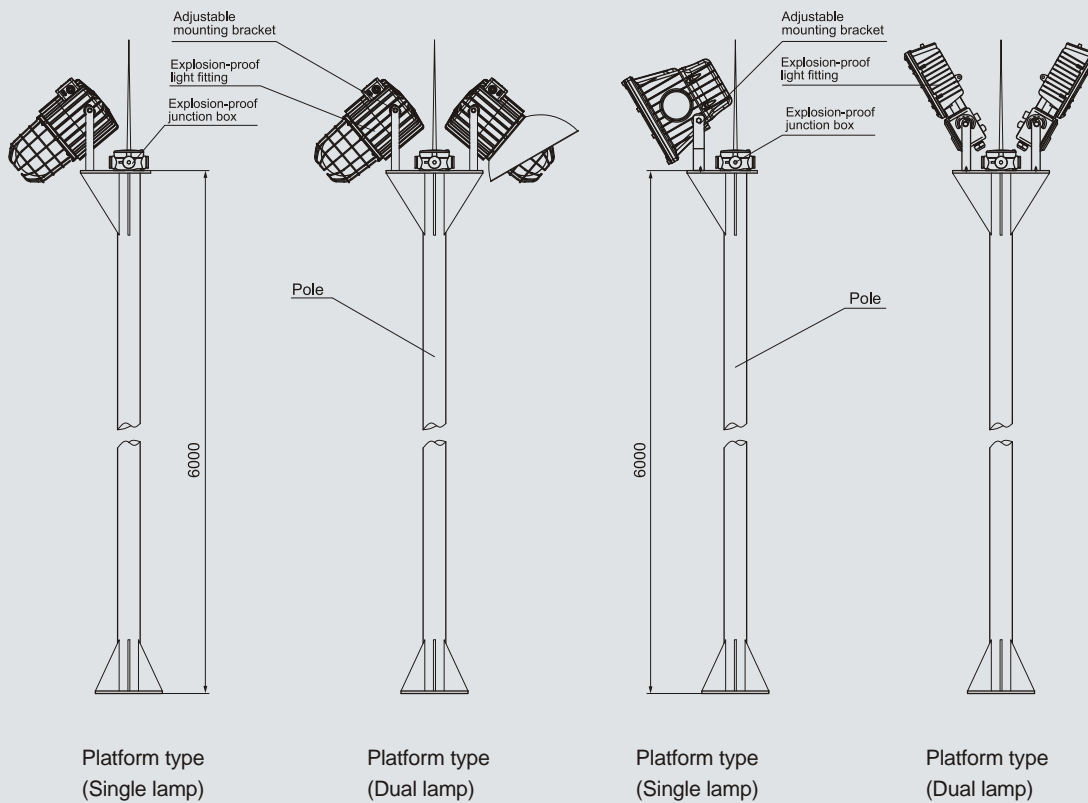
- ◆ Explosion protection to
 - CENELEC
 - IEC
 - ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - ◆ Please refer to mounting schematic diagram to select right lamp and mounting types on request of job site.
 - ◆ Please refer to this catalogue for detail technical data and ordering information of each light fitting.
- Note: If BAT53-250 type street lamp required, please specify when ordering.
- ◆ The street lamps are supplied without pole; please specify when ordering.

Mounting schematic diagram of BAT53-250 series street lamps



Zones 1&2; 21&22

Mounting schematic diagram of BAT53-250, BAT53-400 series, BAD91-250, BAD91-400 series street lamps



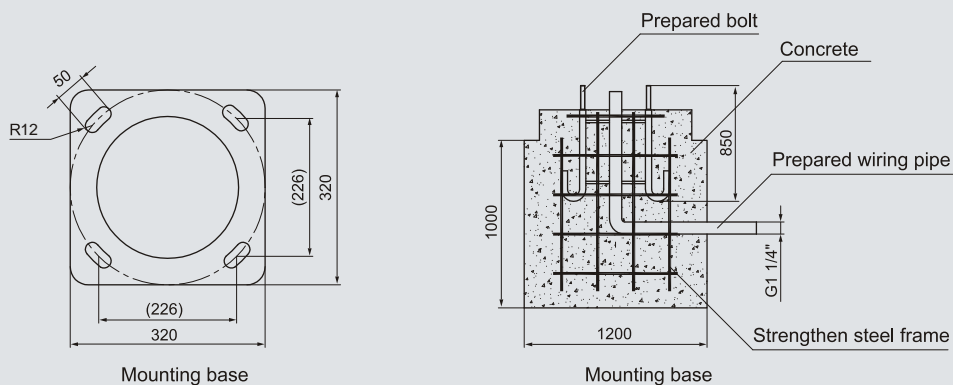
BAD91-250, BAD91-400 series

BAT53-250, BAT53-400 series

Note: 1. For BAD91-400 series or BAD91-250 series, the installation angle of light fittings can be adjusted on request of lighting on job site.
2. External reflector is optional, which increases luminous intensity at site.



Reference diagram of street lamp mounting base



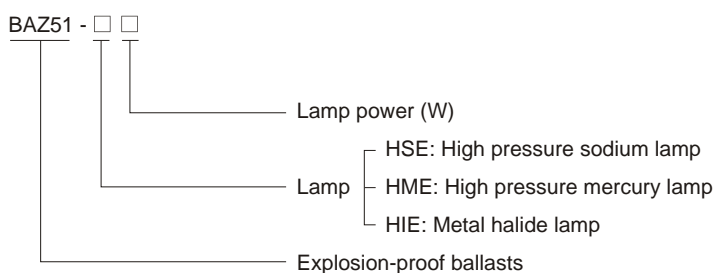


Ballasts

BAZ51 Series Explosion-proof Ballasts

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Applicable to lamp (max. 400W) of HIE, HSE and HME.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).
- ◆ Choke ballast, rapid starting, stable performance.

Catalogue number logic



Selection table

Type/Ordering code	Available lamp Power(W)	Weight (kg)	Enclosure	Type/Ordering code	Available lamp Power(W)	Weight (kg)	Enclosure
BAZ51-HIE 70	HIE 70	7.15	I	BAZ51-HSE 150	HSE 150	8.10	I
BAZ51-HIE 100	HIE 100	7.75	I	BAZ51-HSE 250	HSE 250	8.95	II
BAZ51-HIE 150	HIE 150	8.05	I	BAZ51-HSE 400	HSE 400	10.65	II
BAZ51-HIE 175	HIE 175	8.10	I	BAZ51-HME 80	HME 80	7.10	I
BAZ51-HIE 250	HIE 250	8.10	I	BAZ51-HME 125	HME 125	7.75	I
BAZ51-HIE 400	HIE 400	10.70	II	BAZ51-HME 175	HME 175	8.10	I
BAZ51-HSE 70	HSE 70	7.15	I	BAZ51-HME 250	HME 250	8.00	I
BAZ51-HSE 100	HSE 100	7.75	I	BAZ51-HME 400	HME 400	10.65	II

Note: The power factor is more than 0.85 while equipped with compensation capacitor.

Zones 1&2; 21&22

Technical data

Explosion-proof ballasts

BAZ51-□□

Explosion protection

Gas explosion protection
Dust explosion protection

Ex II 2 G Ex d IIB T6
Ex tD A21 T80°C IP65

Certificates

For gas explosion protection
For dust explosion protection

LCIE 06 ATEX 6019; IECEx LCI 08. 0002
PCEC (China)

Conformity to standards

EN 60079-0: 2004, EN 60079-1: 2004
IEC 60079-0: 2004, IEC 60079-1: 2003, IEC 61241-0: 2004, IEC 61241-1: 2004

Material

Enclosure
Exposed fastener

Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Stainless steel

Available lamp

High pressure sodium lamp (HSE): 70W, 100W, 150W, 250W, 400W
High pressure mercury lamp (HME): 80W, 125W, 175W, 250W, 400W
Metal halide lamp (HIE): 70W, 100W, 150W, 175W, 250W, 400W

Note: HPI European standard ballast is available in general

220~240V AC 50Hz (60Hz is optional)

Note: other voltage on request.

Rated voltage

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP65

Ambient temperature

-20°C ~ +55°C

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

3 x M25 x 1.5 Plug for independent type

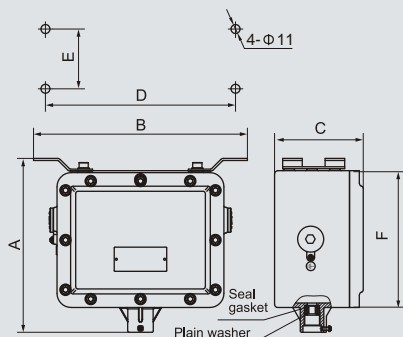
2 x M25 x 1.5 Plug for block type

With seal gasket and plain washer at bottom entries

Cable gland (optional)

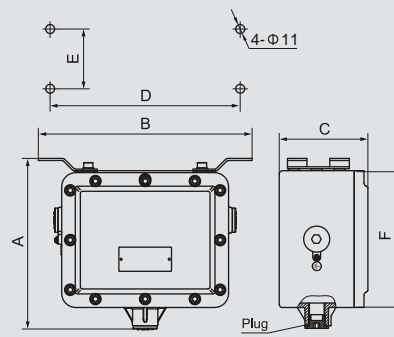
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.

Dimension drawings (all dimensions in mm) - subject to alteration



Enclosure	Size (mm)					
	A	B	C	D	E	F
I	245	301	135	265	65	190
II	265	331	140	295	65	210

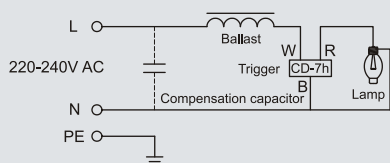
Outline 1 (For block mounting, for example: used for series BAD)



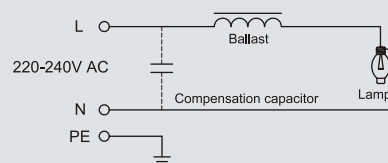
Enclosure	Size (mm)					
	A	B	C	D	E	F
I	240	301	135	265	65	190
II	250	331	140	295	65	210

Outline 2 (For independent mounting, for example: used for series BAT51-400)

Schematic diagram of light fittings and ballasts



Schematic diagram 1 (For HSE or HIE)



Schematic diagram 2 (For HME)





Hand Lamps

BSX-60 Series Explosion-proof Incandescent Hand Lamps

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
- ◆ Incandescent lamps: max. 60W
- ◆ Cable on request
- ◆ Handle in plastic, with control pushbutton
- ◆ Powder coated wire guard, white
- ◆ Toughened glass cover resistant to temperature changes
- ◆ Movable transformer on request (see the following diagram)

BSX-60 is with the schematic diagram of BCZY Explosion-proof movable switchboard



Note: For BCZY Explosion-proof movable switchboard, please refer to P3/46-47 of the catalogue

Zones 1&2

Technical data

Explosion-proof incandescent hand lamps BSX-60

Explosion protection

Gas explosion protection

Ex II 2 G Ex de IIC T4

Certificates

For gas explosion protection

LCIE 07 ATEX 6028; IECEx CQM 08.0015; BVC 10.0043 (Brazil)

Conformity to standards

EN 60079-0: 2004, EN 60079-1: 2004, EN 60079-7: 2003

IEC 60079-0: 2004, IEC 60079-1: 2003, IEC 60079-7: 2001

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Handle

Plastic, black

Exposed fastener

Stainless steel

Wire guard

Powder coated carbon steel, white

Lamp

Lamp holder

E27

Available lamp

Incandescent lamp: 25W, 40W, 60W

Rated voltage

Max. 230V

Protection class

II (Protection against electric shock)

Degree of protection

IP65

Ambient temperature

-20°C ~ +55°C

Terminal

3 x 1.5 ~ 2.5mm² (L+N+PE)

Cable entries

1 x M25 x 1.5 cable gland (DQM-I Ex e, plastic)



Available cable outer diameter

Φ9 ~ Φ16 (mm)

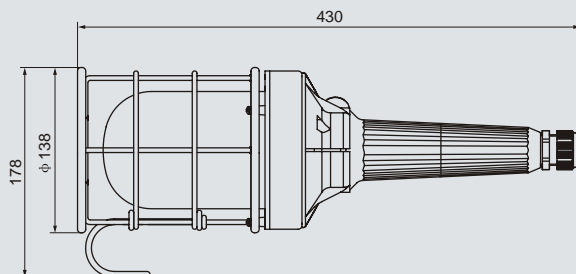
Weight

2.35kg

Accessories

Picture	Name	Ordering code	Weight (kg)
	Wire guard	BSX101	0.35
	Transparent cover with fixing-ring	BSX102	1.50

Dimension drawings (all dimensions in mm) - subject to alteration





Hand lamps

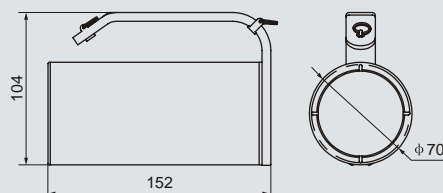
BAD305 Portable Explosion-proof Searchlights

BAD309E Multi-functional Strong Explosion-proof Searchlights

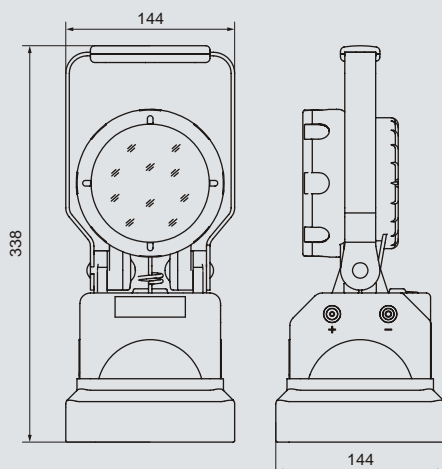
BAD502A Explosion-proof Strong Working Lights

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Safe and reliable
- ◆ Efficient and energy-saving:memory-free battery
- ◆ Intelligent control
- ◆ Water-proof and damage-proof
- ◆ Convenient and durable

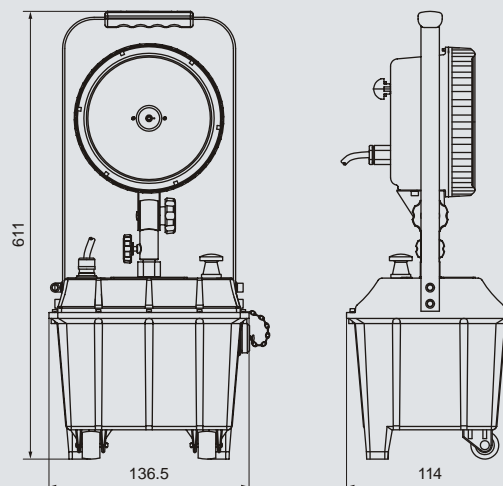
Dimension drawings (all dimensions in mm) - subject to alteration



BAD305



BAD309E



BAD502A



Zones 1&2; 21&22

BAD305 Portable Explosion-proof Searchlights

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Safe and reliable: the product with reliable explosion-proof performance, can safely and reliably work in various combustible areas, the battery is equipped with PTC thermistor and temperature fuse; double-protected circuit, safety performance enhanced.
- ◆ Efficient and energy-saving: memory-free battery, with long service life, low auto-discharge rate, economic and environmental friendly, solid efficient LED lamp, low energy consumption and long service life.
- ◆ Water-proof and damage-proof: the enclosure is made of imported alloy with high strength, excellent strong impact resistant performance, unique sealing type, with very good water-proof performance.
- ◆ Anti-strong interference: scientific module driving circuit, strong performance of anti-shock and anti-electromagnetic interference.
- ◆ Heat resistant: LED radiator and battery are effectively isolated, which improves the stability of the light.
- ◆ Intelligent control: pulse dimming technology, strong light and working light can be changed at random, with battery detection indicator, which can detect the working condition at any time, intelligent charger is with protection circuit.
- ◆ Portable and flexible: small volume, light weight, several types of handling like portable and on shoulder, meet different working requirement.



Technical data

Portable Explosion-proof Searchlights BAD305

Explosion protection	
Gas explosion protection	Ex II 2 G Ex d IIC T6 Gb
Dust explosion protection	Ex II 2 D Ex t IIIC T80°C Db IP66
Certificates	LCIE 12 ATEX_____
Conformity to standards	EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008
Rated voltage	14.8V
Rated capacity	2Ah
Lamp(LED)	
Rated power	9W / 3W
Current of strong light	900mA
Continuous working time	
Strong light	≥8h
Working light	≥16h
Charge time	≥8h
Service life of battery	about 1000 times cycling
Degree of protection	IP66
Weight	790g



Zones 1&2; 21&22

**BAD309E****Multi-functional Strong Explosion-proof Searchlights**

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - ◆ Safe and reliable: the product with good explosion-proof performance and antistatic effect, can safely and reliably work in various combustible areas.
 - ◆ Efficient and energy-saving: LED solid lamp, low energy consumption, high luminous efficacy, long service life, maintenance free and no subsequent usage cost, memory-free battery is recyclable, pollution-free.
 - ◆ Water-proof and damage-proof: the light adopts whole-sealing craft, applicable in damp and severe atmosphere, special alloy enclosure makes sure the light can resist strong shock and impact.
- ◆ Intelligent control: the light is with two kinds of working modes: strong light and working light, switch is controlled by intelligent chip, the strong light and weak light can be changed at random, single-chip control; with battery display and special protection circuit, with protection function of anti-over charging, over discharging and short circuit, reliably protect the battery and prolong the service life.
- ◆ Convenient and durable: unique lamp cap; lighting angle can be adjusted within the scope of -45--55, no lighting dead angle (lighting range of strong light: 800m, effective distance: 300m, suitable for long-distance searching and lighting in large area of close range), light weight, portable type, horizontal type, hang type, magnetic absorption, etc, convenient to use; the switch is with anti-incorrect operation function.

**Technical data****Multi-functional strong explosion-proof searchlights BAD309E****Explosion protection**

Gas explosion protection

Ex II 2 G Ex ib IIC T6 Gb

Dust explosion protection

Ex II 2 D Ex t IIIC T80°C Db IP65

Certificates

LCIE 12 ATEX_____

Conformity to standards

EN 60079-0: 2009, EN 60079-11: 2007, EN 60079-31: 2009

IEC 60079-0: 2007, IEC 60079-11: 2006, IEC 60079-31: 2008

Rated voltage

12V

Rated capacity

4Ah

Lamp(LED)

Rated power

9W / 3W

Average service life

100000h

Continuous working time

Strong light

≥8h

Working light

≥18h

Charging time

≥8h

Service life of battery

about 1000 times cycling

Degree of protection

IP65

Weight

1.9kg

Zones 1&2; 21&22

BAD502A Explosion-proof Strong Working Lights

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Safe and reliable: the product with good explosion-proof performance, can safely and reliably work in various combustible areas.
- ◆ Efficient and energy-saving: special gas discharging lamp; high luminous efficiency, luminous flux is 5 times of that of halogen lamp with the same power, illumination is 3 times of 100W halogen bulb, service life is 5-10 times of that of normal halogen lamp, with the same brightness, the power consumption is 15% of that of normal halogen lamp, good anti-shock effect, small heating value, safer and more reliable.
- ◆ Water-proof and damage-proof: the light adopts whole-sealing craft, can work normally when in water, special alloy enclosure makes sure the light can resist strong shock and impact.
- ◆ Economic and environmental friendly: the memory-free battery can be charged at any time, after charging fully and laid aside for a year, the reserve of electricity is not less than 80% when it is full, for two years, it is not less than 50%, low-voltage discharging protection circuit is set; reliably protect the battery and prolong the service life.
- ◆ Convenient and durable: unique lamp cap, lighting angle can be adjusted at random, there are wheels at the bottom, easy to move and work.
- ◆ Other performances: normally, floodlight is provided; spotlight is on request.



Technical data

Explosion-proof strong working lights BAD502A

Explosion protection

- Gas explosion protection
- Dust explosion protection

Certificates

Conformity to standards

Rated voltage

Rated capacity

Lamp

- Working voltage
- Rated power
- Luminous flux
- Average service life
- Continuous working time

Charging time

Service life of battery

Degree of protection

Weight

Ex II 2 G Ex de IIC T4 Gb
Ex II 2 D Ex t IIIC T130°C Db IP65
LCIE 12 ATEX_____
EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-31: 2009
IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-7: 2006, IEC 60079-31: 2008
24V
20Ah
Xenon lamp
24V
35W
3200lm
3000h
≥10h
≥12h
about 1000 times cycling
IP65
15kg



Zones 1&2; 21&22