Floodlights

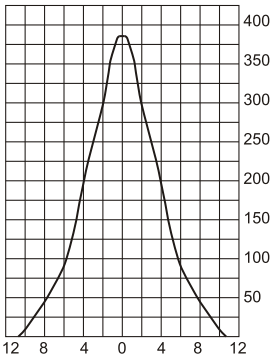
BAT51 Series Explosion-proof Floodlights

- Explosion protection to
  -CENELEC
  -IEC
- Can be used in
  Zone 1 and Zone 2
  Zone 21 and Zone 22
- Available lamp of E40 lamp holder:
  -High pressure sodium lamp (HSE)
  -Metal halide lamp (HIE)
  -High pressure mercury lamp (HME)
  -Self ballast high pressure mercury lamp (SME)
- Two enclosure types: 400, 1000.
- Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL 1021).
- Installed on cradle to allow for all adjustments; adjustable in 60° or 90° .
- Toughened glass cover resistant to temperature changes.

Catalogue number logic

BAT51 - □-□ □

- Lamp power (W)
- Lamp
  - HSE: High pressure sodium lamp
  - HIE: Metal halide lamp
  - HME: High pressure mercury lamp
  - SME: Self ballast high pressure mercury lamp
- Enclosure type: 400,1000
- Explosion-proof floodlights



Luminous intensity distribution (cd/1000lm)

Selection table

Type/Ordering code	Available lamp power (W)				Weight (kg)
	HIE	HME	HSE	SME	
BAT51-400	175, 250, 400	175, 250, 400	150, 250, 400	250, 500	14.50
BAT51-1000	1000	-	1000	-	58.50

Note

1. 400 type light fittings are supplied without lamp and ballast. PHILIPS lamps are recommended.
2. 1000 type light fittings are supplied with lamp and ballast.
3. HPI European standard ballast is supplied with HIE light fitting. HPI European standard lamps are recommended.

Zones 1&2; 21&22

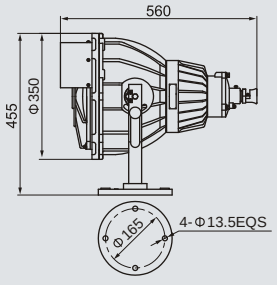
Technical data

Explosion-proof floodlights	BAT51-400-□□	BAT51-1000-□□
Explosion protection		
Gas explosion protection	Ⓔx II 2 G Ex d IIB T4(T3) Gb	Ⓔx II 2 G Ex d IIB T2 Gb
Dust explosion protection	Ⓔx II 2 D Ex t IIIB T130℃(T190℃) Db IP65	Ⓔx II 2 D Ex t IIIB T290℃ Db IP65
Certificates	PCEC (China), LCIE 12 ATEX____	PCEC (China), 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	
Material		
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)	
Wire guard	Powder coated carbon steel, white	
Transparent cover	Toughened glass, stands 4J impact	
Ballast	Choke ballast, rapid starting, stable performance	
Trigger	General trigger	
Capacitor	Power factor≥0.85 (compensated)	
Internal reflector	High-purity aluminium	
Exposed fastener	Stainless steel	
Lamp		
Lamp holder	E40	

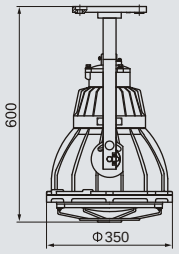
Lamp power (W)	Available lamp	Ⓔx II 2 G Ex d IIB T4 Gb Ⓔx II 2 D Ex t IIIB T130℃ Db IP65	Ⓔx II 2 G Ex d IIB T3 Gb Ⓔx II 2 D Ex t IIIB T190℃ Db IP65	Ⓔx II 2 G Ex d IIB T2 Gb Ⓔx II 2 D Ex t IIIB T290℃ Db IP65
	HIE	175W, 250W	400W	1000W
	HSE	150W, 250W	400W	1000W
	HME	175W, 250W	400W	——
	SME	250W	500W	——

Rated voltage	400W or below: 220～240V AC 50Hz (60Hz is optional) HIE/HSE 1000W: 230V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP65
Ambient temperature	-20℃～+55℃
Terminal	3 x 1.5～2.5mm² (L+N+PE)
Cable entries	BAT51-400 type: G3/4”; BAT51-1000 type: M25 x 1.5
Cable gland	BAT51-400 type: with seal gasket and trumpet shaped gland BAT51-1000 type: the cable between floodlight and ballast through BNG-M25 x 1.5(M)/M25 x 1.5 (M) explosion-proof flexible conduit (length: 1200 mm); One explosion-proof cable gland (DQM-II-M25 x 1.5 Ex d, brass, armored, cable wiring)
Available cable outer diameter	Φ10～Φ14 (mm)
Note	1. For BAT51-400 type: if HIE, HSE or HME lamp required, explosion-proof ballast shall Not be supplied. BAZ51 series explosion-proof ballast is recommended (see P2/88 when ordering). 2. For BAT51-1000 type: explosion-proof ballast shall be supplied. 3. HPI European standard HIE lamp is recommended for HIE light fitting.

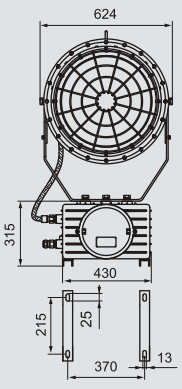
Dimension drawings (all dimensions in mm) - subject to alteration

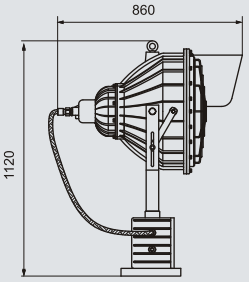


BAT51-400 Horizontal type



BAT51-400 Ceiling type





BAT51-1000

Floodlights

BAT53 Series Explosion-proof Floodlights

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
  Zone 21 and Zone 22
- Four enclosure types: 125, 250, 400, 1000.
- Integral control gear, easy installation and maintenance.
- Rapid starting trigger, stable performance and long service life.
- Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).
- Toughened glass cover resistant to temperature changes.

Catalogue number logic

BAT53 - □ - □ □ □

- Explosion-proof floodlights
- Enclosure type: 125, 250, 400, 1000
- Lamp: HIE: Metal halide lamp; HSE: High pressure sodium lamp; HME: High pressure mercury lamp
- Lamp power (W)
- Mounting: S: street lamp type (only for BAT53-250 type, See P2/86); Y: movable type; G: fixed type

Selection table

Type/Ordering code	Available lamp power (W)			Lamp holder	Weight (kg)
	HIE	HSE	HME		
BAT53-125	70, 100, 150	70, 100	80, 125	E27	8.45
BAT53-250	175, 250	150, 250	175, 250	E40	14.75
BAT53-400	400	400	-	E40	30.75
BAT53-1000	1000	1000	-	E40	58.00

Note

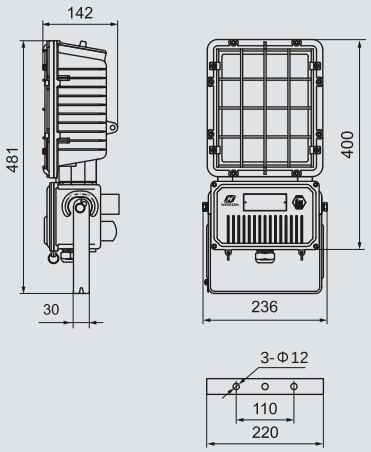
1. Please specify any spare parts when ordering. See Accessories table.
2. 125, 250 and 400 type light fittings are supplied without lamp. PHILIPS lamps are recommended.
3. HPI European standard ballast is supplied with HIE light fitting. HPI European standard lamps are recommended.
4. 1000 type light fittings are supplied with lamp and ballast.

Zones 1&2; 21&22

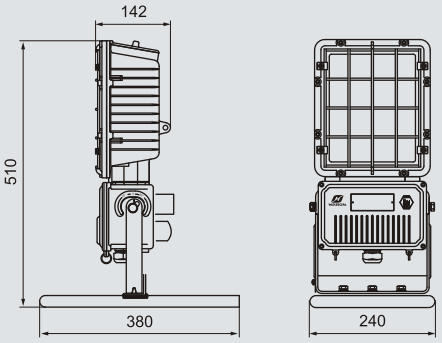
Technical data

Explosion-proof floodlights	BAT53-125-□□□
Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIB T4　　Ex de IIB T4 Gb
Dust explosion protection	Ex tD A21 T130℃ IP65
Certificates	
For gas explosion protection	LCIE 05 ATEX 6143; IECEx CQM 07.0004; FM (USA)
For dust explosion protection	PCEC (China)
Conformity to standards	EN 60079-0: 2004, EN 60079-1: 2004, EN 60079-7: 2003 IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-7: 2006 IEC 61241-0: 2004, IEC 61241-1: 2004
Material	
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Ballast	Choke ballast, rapid starting, stable performance
Wire guard	Powder coated carbon steel, white
Internal reflector	High-purity aluminium
Trigger	Explosion-proof electronic trigger
Capacitor	Power factor≥0.85 (compensated)
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E27
Available lamp and lamp power (W)	High pressure sodium lamp (HSE): 70W, 100W High pressure mercury lamp (HME): 80W, 125W Metal halide lamp (HIE): 70W, 100W, 150W Note: HPI European standard ballast is available in general
Rated voltage	220～240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP65
Ambient temperature	-20℃～+55℃
Terminal	3 x 1.5～2.5mm² (L+N+PE)
Cable entries	2 x Φ21: 1 x M20 x 1.5 cable gland (DQM-I Ex e, carbon steel),1 x M20 x 1.5 plug
Available cable outer diameter	Φ5～Φ10 (mm)

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



G: fixed type



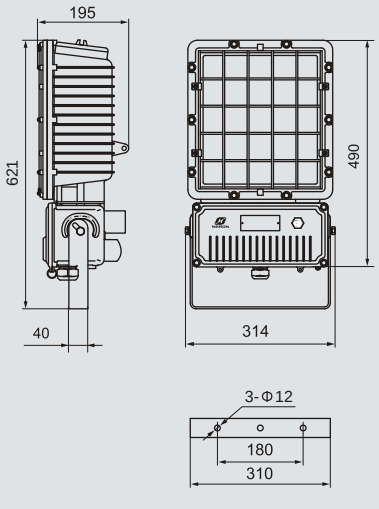
Y: movable type

Floodlights
BAT53 Series Explosion-proof Floodlights

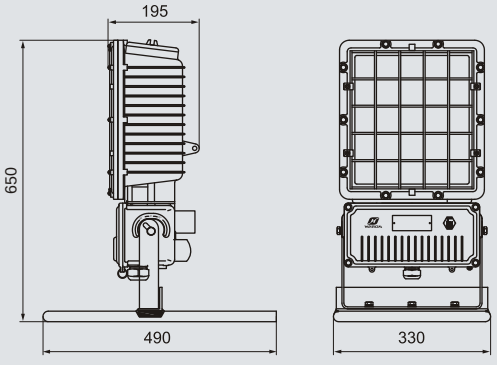
Technical data

Explosion-proof floodlights	BAT53-250-□□□
Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIB T3 Ex de IIB T3 Gb
Dust explosion protection	Ex tD A21 T190℃ IP65
Certificates	
For gas explosion protection	LCIE 05 ATEX 6143; IECEx CQM 07.0004; FM (USA)
For dust explosion protection	PCEC (China)
Conformity to standards	EN 60079-0: 2004, EN 60079-1: 2004, EN 60079-7: 2003 IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-7: 2006 IEC 61241-0: 2004, IEC 61241-1: 2004
Material	
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Ballast	Choke ballast, rapid starting, stable performance
Wire guard	Powder coated carbon steel, white
Internal reflector	High-purity aluminium
Trigger	Explosion-proof electronic trigger
Capacitor	Power factor≥0.85 (compensated)
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E40
Available lamp and lamp power (W)	High pressure sodium lamp (HSE): 150W, 250W High pressure mercury lamp (HME): 175W, 250W Metal halide lamp (HIE): 175W, 250W Note: HPI European standard ballast is available in general
Rated voltage	220～240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP65
Ambient temperature	-20℃～+55℃
Terminal	3 x 1.5～2.5mm² (L+N+PE)
Cable entries	2 x Φ26: 1 x M25 x 1.5 cable gland (DQM-I Ex e, carbon steel),1 x M25 x 1.5 plug
Available cable outer diameter	Φ10～Φ14 (mm)

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



G: fixed type

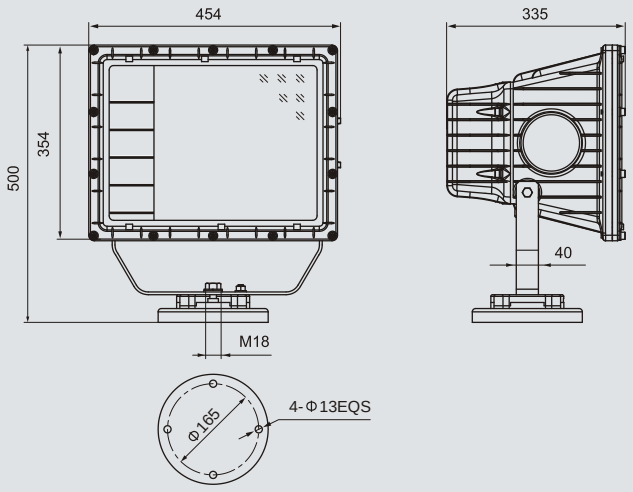


Y: movable type

Technical data

Explosion-proof floodlights	BAT53-400-□□□
Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIB T3
Dust explosion protection	Ex tD A21 T190℃ IP65
Certificates	
For gas explosion protection	LCIE 07 ATEX 6106; IECEx CQM 08.0014; BR229792 (Brazil); FM (USA)
For dust explosion protection	PCEC (China)
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
	IEC 61241-0: 2004, IEC 61241-1: 2004
Material	
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Ballast	Choke ballast, rapid starting, stable performance
Internal reflector	High-purity aluminium
Trigger	Explosion-proof electronic trigger
Capacitor	Power factor≥0.85 (compensated)
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E40
Available lamp and lamp power (W)	High pressure sodium lamp (HSE): 400W (tubular)
	Metal halide lamp (HIE): 400W (tubular)
	Note: HPI European standard ballast is available in general
Rated voltage	220～240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP65
Ambient temperature	-20℃～+55℃
Terminal	3 x 1.5～2.5mm² (L+N+PE)
Cable entries	2 x M25 x 1.5: 1 x M25 x 1.5 cable gland (DQM-I Ex e, carbon steel),1 x M25 x 1.5 plug
Available cable outer diameter	Φ10～Φ14 (mm)

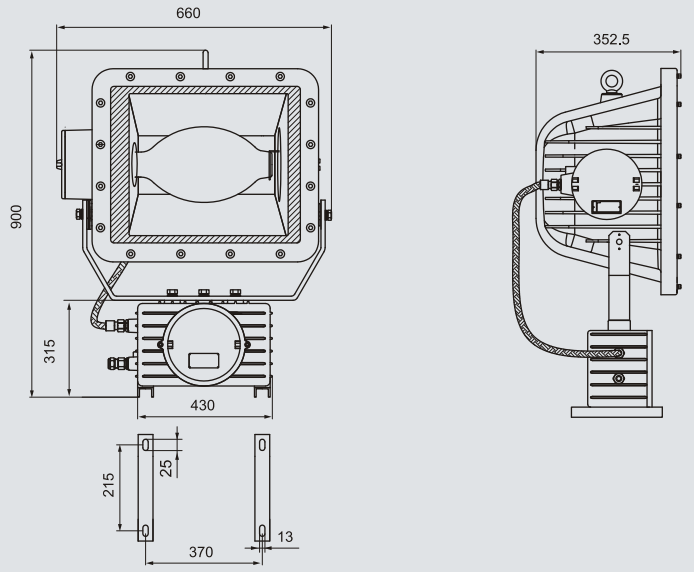
Dimension drawings (all dimensions in mm) - subject to alteration



Technical data

Explosion-proof floodlights	BAT53-1000-□□□
Explosion protection	
Gas explosion protection	Ex II 2 G Ex d IIC T3 Gb
Dust explosion protection	Ex II 2 D Ex t IIIC T190℃ Db IP65
Certificates	PCEC (China); 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
Material	
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Ballast	Choke ballast, rapid starting, stable performance
Trigger	General trigger
Capacitor	Power factor≥0.85 (compensated)
Internal reflector	High-purity aluminium
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E40
Available lamp and lamp power (W)	High pressure sodium lamp (HSE):1000W Metal halide lamp (HIE):1000W Note: HPI European standard ballast is available in general
Rated voltage	230V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP65
Ambient temperature	-20℃～+55℃
Terminal	3 x 1.5～2.5mm² (L+N+PE)
Cable entries	1 x M25 x 1.5
Cable gland	The cable between floodlight and ballast through BNG-M25 x 1.5(M)/M25 x 1.5(M) explosion-proof flexible conduit (length: 1000 mm); One explosion-proof cable gland (DQM-II-M25 x 1.5, Ex d, brass, armored, cable wiring)
Available cable outer diameter	Φ10～Φ14 (mm)

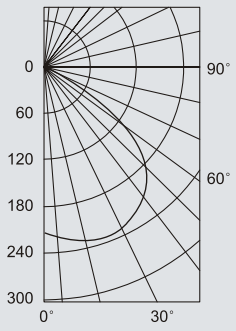
Dimension drawings (all dimensions in mm) - subject to alteration



Photometric data

BAT53-125

Photometric data of
100W metal halide lamp
Rated luminous flux:9000lm;
Luminous intensity distribution cd/1000lm

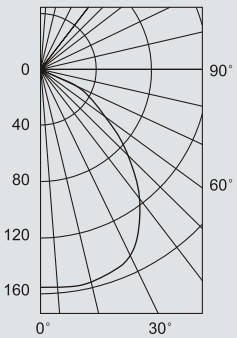


70W Metal halide lamp*0.56
70W High pressure sodium lamp*0.67
100W High pressure sodium lamp*1.06
80W High pressure mercury lamp*0.41
125W High pressure mercury lamp*0.68
150W Metal halide lamp*1.66

Angle	CP	Angle	CP
0	1948	50	1370
5	1945	55	612
10	1953	60	385
15	1963	65	236
20	1950	70	131
25	1955	75	66
30	1839	80	37
35	1733	85	0
40	1649	90	0
45	1588		

BAT53-250

Photometric data of
250W metal halide lamp
Rated luminous flux:23000lm;
Luminous intensity distribution cd/1000lm

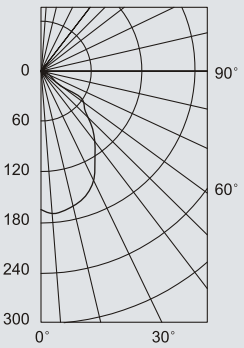


175W Metal halide lamp*0.61
150W High pressure sodium lamp*0.65
250W High pressure sodium lamp*1.22
175W High pressure mercury lamp*0.32
250W High pressure mercury lamp*0.55

Angle	CP	Angle	CP
0	3162	50	1419
5	3197	55	975
10	3183	60	613
15	3128	65	354
20	3073	70	202
25	3010	75	127
30	2790	80	65
35	2505	85	5
40	2191	90	3
45	1806		

BAT53-400

Photometric data of
400W metal halide lamp
Rated luminous flux:38000lm;
Luminous intensity distribution cd/1000lm

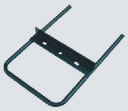


400W High pressure sodium lamp*1.26

Angle	CP	Angle	CP
0	5982	50	2330
5	6178	55	1849
10	6103	60	443
15	6054	65	338
20	5706	70	234
25	5342	75	111
30	4751	80	52
35	4235	85	12
40	3517	90	4
45	2765		

We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Accessories

Picture	Name	Ordering code	Weight (kg)
	Explosion-proof electronic trigger (125, 250, 400 type)	61034	0.30
	125 Explosion-proof capacitor	53012	0.45
	250 Explosion-proof capacitor	53013	0.45
	400 Explosion-proof capacitor	53014	0.55
	125 Movable support	53015	1.80
	250 Movable support	53016	2.35

Note: Ballast see P1/19

Floodlights

BAT85 Series Explosion-proof Floodlights

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
- Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).
- Integral control gear, easy installation and maintenance.
- Toughened glass cover resistant to temperature changes.
- The light fittings are supplied without lamp. PHILIPS lamps are recommended.

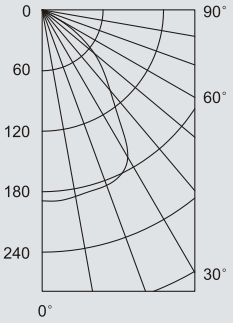
Catalogue number logic

BAT85 - □ □

- Lamp power (W)
- Lamp
  - HIE: Metal halide lamp
  - HSE: High pressure sodium lamp
  - HME: High pressure mercury lamp
- Explosion-proof floodlights

Photometric data

Photometric data of 250W
metal halide lamp
Rated luminous flux:23000lm;
The data from PHILIPS lamp;
Luminous intensity distribution cd/1000lm



Angle	CP
0	4066
5	3773
10	3536
15	3385
20	3340
25	3292
30	3036
35	2475
40	1763
45	1404

Angle	CP
50	1112
55	945
60	404
65	292
70	161
75	90
80	46
85	0
90	0

175W Metal halide lamp*0.61
150W High pressure sodium lamp*0.78
250W High pressure sodium lamp*1.22
175W High pressure mercury lamp*0.36
250W High pressure mercury lamp*0.55
400W Metal halide lamp*1.40
400W High pressure sodium lamp*2.36
400W High pressure mercury lamp*0.82

We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Zones 1&2

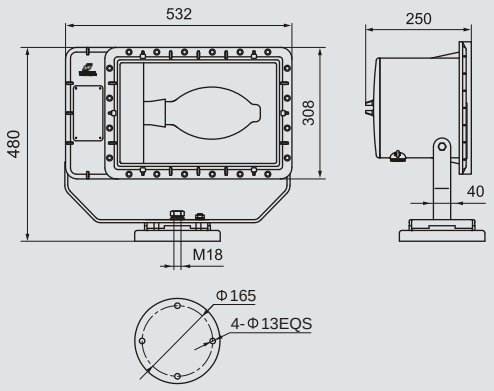
Technical data

Explosion-proof floodlights	BAT85-□□
Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex d IIC T3 [1] or xxx℃ [1] Gb
	[1] See Selection Table for temperature classification
Certificates	
For gas explosion protection	LCIE 10 ATEX 3083; IECEx CQM 11.0013; FM (USA)
Conformity to standards	EN 60079-0: 2009, EN 60079-1: 2007 IEC 60079-0: 2007, IEC 60079-1: 2007
Material	
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Glass cover	Toughened glass, stands 4J impact
Ballast	Choke ballast, rapid starting, stable performance
Trigger	General trigger
Capacitor	Power factor≥0.85 (compensated)
Internal reflector	High-purity aluminium
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E40
Available lamp	Metal halide lamp (HIE): 175W, 250W, 400W Note: HPI European standard ballast is available in general High pressure sodium lamp (HSE): 150W, 250W, 400W High pressure mercury lamp (HME): 175W, 250W, 400W
Rated voltage	220~240V AC 50Hz (60Hz is optional) 208V, 250V, 277V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP65
Ambient temperature	-20℃～+55℃
Terminal	3 x 1.5～2.5mm² (L+N+PE)
Cable entries	2 x M25 x 1.5 plug
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20～25.
Weight	28.50kg

Selection Table

Rated voltage	Lamp	Lamp power (W)	Temperature classification -20℃≤ Ta≤+40℃	Temperature classification -20℃≤ Ta≤+55℃
208/220V AC 50/60Hz	HIE	175, 250, 400	T3	T3
	HME	175, 250, 400	T3	T3
	HSE	150, 250, 400	T3	T3
230V AC 50/60Hz	HIE	175, 250, 400	T3	T3
	HME	175, 250	T3	T3
		400	T3	208℃
	HSE	150, 250	T3	T3
		400	T3	206℃
240V AC 50/60Hz	HIE	175, 250, 400	T3	T3
	HME	175, 250	T3	T3
		400	T3	211℃
	HSE	150, 250	T3	T3
		400	T3	212℃
250V AC 50/60Hz	HIE	175, 250, 400	T3	T3
	HME	175, 250	T3	T3
		400	201℃	216℃
	HSE	150, 250	T3	T3
		400	211℃	226℃
277V AC 50/60Hz	HIE	175, 250	T3	T3
		400	T3	208℃
	HME	175, 250	T3	T3
	HSE	150, 250	T3	T3
		400	210℃	225℃

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



Floodlights

BAT86 Series Explosion-proof LED Floodlights

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
  Zone 21 and Zone 22
- Applicable lamp and power (max.120W):
  LED lamps, energy-saving and long service life
  50W, 70W, 100W, 120W
- Isolated LED lamp compartment, CC-CV (constant current - constant voltage) power controlle r compar tment, terminal compartment; wind-convection heat dissipation structure.

Catalogue number logic

BAT86 - □ □

- Mounting: Y: movable type / G: fixed type
- Lamp power (W)
- Explosion-proof LED floodlights

Selection table

Type/Ordering code	Lamp power (W)	Weight (kg)	Type/Ordering code	Lamp power (W)	Weight (kg)
BAT86-50G	50	10.80	BAT86-50Y	50	11.80
BAT86-70G	70	10.80	BAT86-70Y	70	11.80
BAT86-100G	100	10.80	BAT86-100Y	100	11.80
BAT86-120G	120	10.80	BAT86-120Y	120	11.80
Note: The product is supplied according to “Type/Ordering code” in the table with mounting accessories.					

Zones 1&2; 21&22

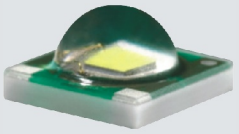
Technical data

Explosion-proof LED floodlights BAT86-□□

Explosion protection	
Gas explosion protection	Ex II 2 G Ex de IIC T5 Gb
Dust explosion protection	Ex II 2 D Ex t IIIC T95℃ Db IP66
Certificates	PCEC(China); LCIE 12 ATEX_____, IECEx; FM (USA); GOST.R (Russia)
Conformity to standards	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
Material	
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Glass cover	Toughened glass, stands 4J impact
Power controller	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ⩾0.98, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit
Exposed fastener	Stainless steel
Lamp	
Lamp specification	CREE plural white LED modules
Lamp power (W)	50W, 70W, 100W, 120W
Rated voltage	187～265V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-40℃～+55℃
Terminal	3 x 1.5～4mm² (L+N+PE)
Mounting	Movable type, fixed type Note: Fixed type can be used in horizontal type ceiling type,wall type, etc.
Cable entries	G3/4″ (NPT3/4″ or M25 x 1.5 with reducer on request.)
Cable gland	1 x G3/4″ cable gland (DQM-I Ex e, carbon steel)
Applicable cable outer diameter	Φ10~Φ14 (mm)

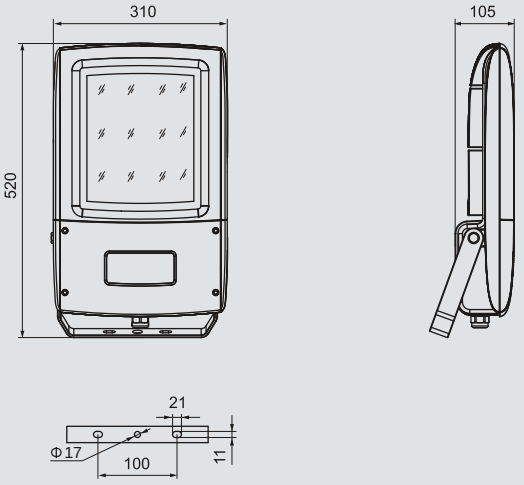
Energy-saving description

Name	High pressure mercury lamp 250W	BAT86-120
Rated power (W)	250	120
Working current (A)	2.15/220V	0.55/220V
Power factor (cosΦ)	0.40	0.95
Effective luminous flux (lm)	10000	10800
Service life (h)	15000	50000
Energy-saving effect	Similar luminous flux, electricity saved by over 70%, LED lamp service life extended by over 3 times, less maintenance expense, and less electric energy loss.	



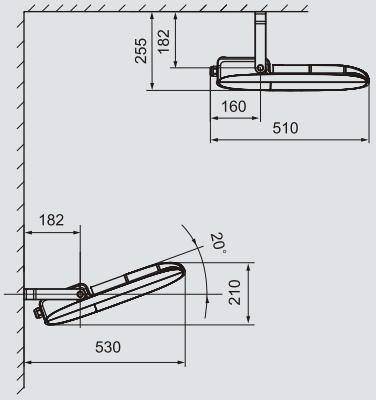
Elaboration of plural white LED modules, unidirectional illumination, soft and balanced light, luminous efficiency>90lm/W, high colour rendering, long service life (50000h), environmental protection.

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

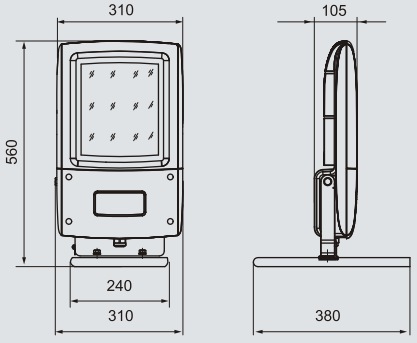


Mounting type

Installation reference	
G: fixed type ceiling type	Y: movable type



wall type 20°

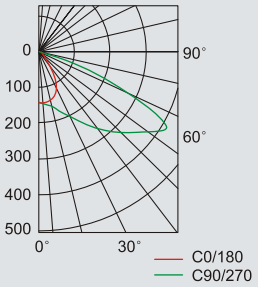


Photometric data

Photometric data of BAT86-100G (BAT86-100Y)

Rated luminous flux:9000lm;
The data from CREE lamp;
Luminous intensity distribution cd/1000lm

50W LED lamp*0.5
70W LED lamp*0.7
120W LED lamp*1.2



C0/180

Angle	CP	Angle	CP
0	1260	50	68
5	1266	55	55
10	1274	60	48
15	1218	65	50
20	1090	70	35
25	910	75	25
30	666	80	15
35	436	85	0
40	255	90	0
45	125		

C90/270

Angle	CP	Angle	CP
0	1259	50	2650
5	1305	55	3015
10	1351	60	3380
15	1397	65	2265
20	1493	70	1150
25	1589	75	35
30	1685	80	0
35	1885	85	0
40	2085	90	0
45	2285		

We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Accessories

Picture	Name	Ordering code	Weight (kg)
	Power controller 50W	86001	0.20
	Power controller 70W	86002	0.20
	Power controller 100W	86003	0.20
	Power controller 120W	86004	0.20
	LED Lamp module 50W	86005	0.01
	LED Lamp module 70W	86006	0.01
	LED Lamp module 100W	86007	0.01
	LED Lamp module 120W	86008	0.01

Floodlights

BnT81 Series Explosion-proof Floodlights

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 2
  Zone 21 and Zone 22
- Available lamp (max.1000W):
  -Metal halide lamp (HIE)
  -High pressure sodium lamp (HSE)
- Two enclosure types: 400, 1000.
- Type 400: lamp and ballast are of inegral type.
  Type 1000: lamp and ballast are split type.
- Enclosure in copper-free aluminium, powder coated external surface.
- Both American standard and European standard are available.
- Type 400 are supplied without lamp, PHILIPS lamps are recommended.
- Type 1000 are supplied with lamp.

Catalogue number logic

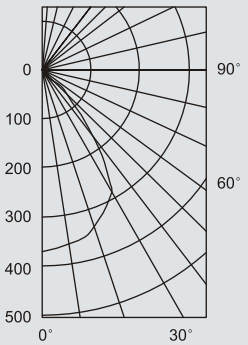
BnT81 - □ - □ □

- Lamp power (W)
- Lamp
  - HIE: Metal halide lamp
  - HSE: High pressure sodium lamp
- Enclosure type: 400, 1000
- Explosion-proof floodlights

Photometric data

Photometric data of 250W metal halide lamp

Rated luminous flux:23000lm;
The data from PHILIPS lamp;
Luminous intensity distribution cd/1000lm



Angle	CP
0	8658
5	8691
10	8577
15	8536
20	8174
25	7812
30	7450
35	6838
40	6226
45	5615

Angle	CP
50	4092
55	2570
60	1047
65	723
70	400
75	75
80	0
85	0
90	0

175W Metal halide lamp*0.61
150W High pressure sodium lamp*0.65
250W High pressure sodium lamp*1.22
400W Metal halide lamp*1.65
400W High pressure sodium lamp*2.08

We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Zones 2; 21&22

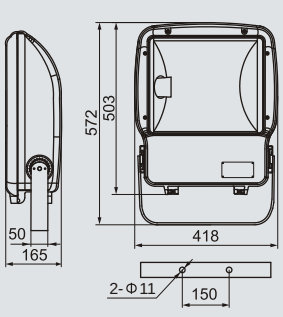
Technical data

Explosion-proof floodlights	BnT81-400-□□	BnT81-1000-□□
Explosion protection		
Gas explosion protection	Ⓔx II 3 G Ex nR IIC T3 Gc	Ⓔx II 3 G Ex nR IIC T2 Gc
Dust explosion protection	Ⓔx II 2 D Ex t IIIC T190℃ Db IP66	Ⓔx II 2 D Ex t IIIC T290℃ Db IP66
Certificates	LCIE 12 ATEX_____; IECEx; FM (USA); GOST.R (Russia)	
Conformity to standards	EN 60079-0: 2009, EN 60079-15: 2010, EN 60079-31: 2009 IEC 60079-0: 2007, IEC 60079-15: 2010, IEC 60079-31: 2008	
Material		
Enclosure	Copper-free aluminium, powder coated external surface	
Glass cover	Toughened glass, stands 4J impact	
Internal reflector	High-purity aluminium	
Ballast	Chock ballast, rapid starting, stable performance	
Trigger	General trigger	
Capacitor	Power factor≥0.85 (compensated)	
Exposed fastener	Stainless steel	
Lamp		
Lamp holder	E40	
Available lamp and lamp power (W)		

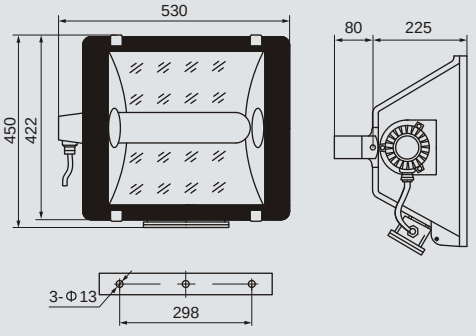
Available		BnT81-400	BnT81-1000
American standard	HIE	175W, 250W, 400W	1000W
120V/208V/240V/277V/480V AC	HSE	150W, 250W, 400W	1000W
European standard	HIE	175W, 250W, 400W	1000W
220~240V, 250V AC (230V AC)	HSE	150W, 250W, 400W	1000W

Rated voltage	Note: Please see Seletion table of American standard HID lamp and corresponding electrical components (See P1/20) American standard: 120V/208V/240V/277V/480V AC 60Hz (50Hz is optional) European standard: 220~240V AC 50Hz (60Hz is optional) 250V AC 50Hz (60Hz is optional) 1000W: 230V AC 50Hz (60Hz is optional)	
Earthing protection	M5 (internal & external earth bolts)	
Degree of protection	IP66	
Ambient temperature	-20℃～+55℃	
Terminal	3 x 1.5～4mm² (L+N+PE)	
Cable entries	BnT81-400 type: 2 x Φ21: 1 x M20 x 1.5 plug, 1 x M20 x 1.5 cable gland (DQM-I Ex e, carbon steel) BnT81-1000 type: lamp : 1 x G3/4″ cable gland (DQM-I Ex e, brass armored cable wiring) ballast: 2 x G3/4″ cable gland (DQM-I Ex e, brass armored cable wiring)	
Applicable cable outer diameter	Φ5～Φ10 (mm)	Φ10～Φ14 (mm),
Weight	12.85 kg	lamp: 10.00kg, ballast: 18.60kg

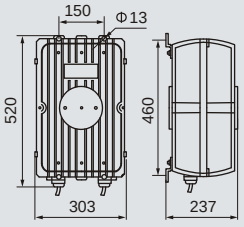
Dimension drawings (all dimensions in mm) - subject to alteration



BnT81-400



BnT81-1000



BnT81-1000 Ballast