

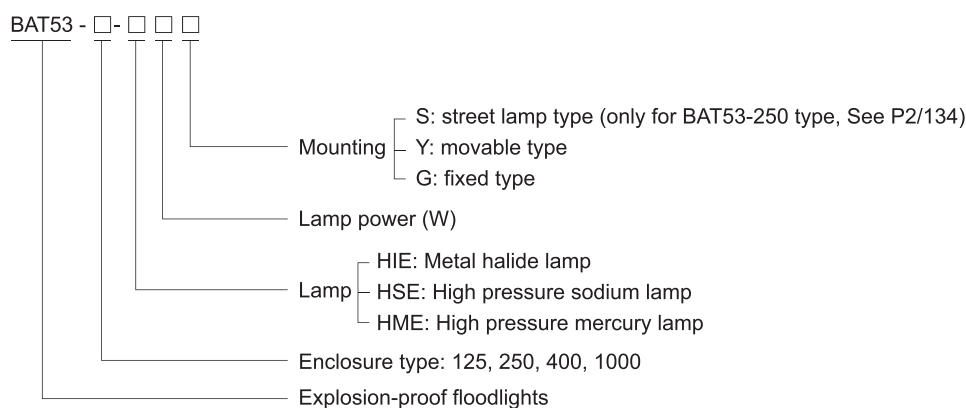
Floodlights

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
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups C, D
 - Class I, Division 1, Groups C, D
- ◆ 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 surface, yellow (RAL1021).
- ◆ Toughened glass cover resistant to temperature changes.

Catalogue number logic



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	115.00

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.

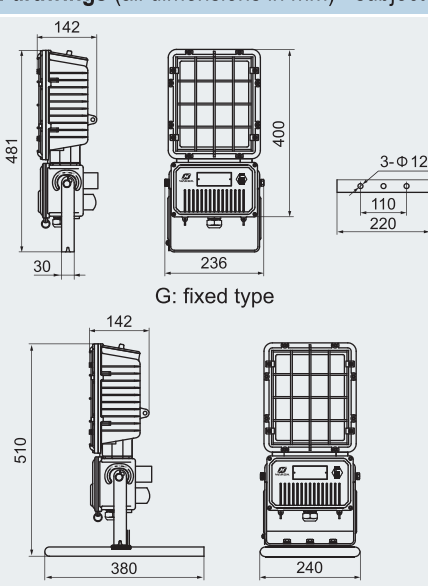
Zones 1&2; 21&22

Floodlights

BAT53 Series Explosion-proof Floodlights

Technical data	
Explosion-proof floodlights	BAT53-125-□□□
Explosion protection Gas explosion protection Dust explosion protection	Ex II 2 G Ex d e IIB T□ ¹⁾ Gb Ex II 2 D Ex tb IIIC T□ ¹⁾ Db IP66 ¹⁾ See Selection table
Certificates	LCIE 15 ATEX ____; IECEx CQM 13.0037X
Conformity to standards	EN 60079-0: 2012, 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 Glass cover Ballast Wire guard Internal reflector Trigger Capacitor Exposed fastener	Copper-free aluminium, powder coated surface, yellow (RAL1021) Toughened glass, stands 4J impact Electromagnetic ballast, rapid starting, stable performance Powder coated carbon steel, white High-purity aluminium Explosion-proof electronic trigger Power factor ≥ 0.90 (compensated) Stainless steel
Lamp Lamp holder Available lamp and lamp power (W)	E27 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	IP66
Ambient temperature	-60°C~+55°C
Terminal	3 x 1.5~2.5mm ² (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)



Selection table				Dimension drawings (all dimensions in mm) - subject to alteration	
Lamp	Lamp power (W)	Temperature classes			
		Gas	Dust		
HIE	70	T156°C	T156°C	G: fixed type Y: movable type	
HSE	70	T156°C	T156°C		
HSE	100	T185°C	T185°C		
HIE	100	T181°C	T181°C		
HIE	150	T190°C	T190°C		
HME	80	T163°C	T163°C		
HME	125	T209°C	T209°C		

Floodlights

BAT53 Series Explosion-proof Floodlights

Technical data

Explosion-proof floodlights

BAT53-250-□□□

Explosion protection

- Gas explosion protection
- Dust explosion protection

Ex II 2 G Ex d e IIB T3 Ex d e IIB T3 Gb
Ex tD A21 T190°C IP65

Certificates

- For gas explosion protection
- For dust explosion protection

LCIE 05 ATEX 6143; IECEX CQM 07.0004
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
- Glass cover
- Ballast
- Wire guard
- Internal reflector
- Trigger
- Capacitor
- Exposed fastener

Copper-free aluminium, powder coated surface, yellow (RAL1021)
Toughened glass, stands 4J impact
Electromagnetic ballast, rapid starting, stable performance
Powder coated carbon steel, white
High-purity aluminium
Explosion-proof electronic trigger
Power factor ≥ 0.90 (compensated)
Stainless steel

Lamp

- Lamp holder
- Available lamp and lamp power (W)

E40
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
220~240V AC 50Hz (60Hz is optional)

Rated voltage

Earthing protection

Degree of protection

Ambient temperature

Terminal

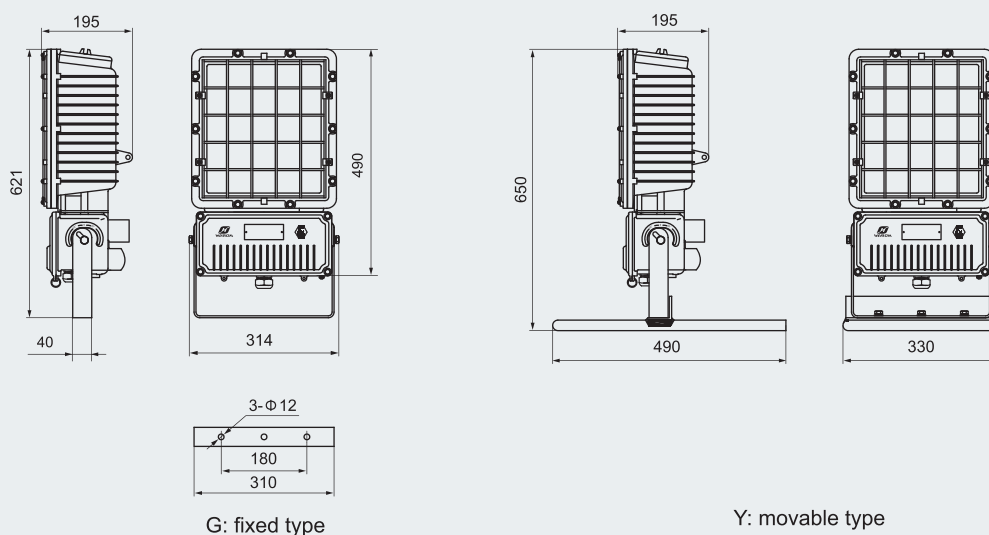
Cable entries

Available cable outer diameter

M5 (internal & external earth bolts)
IP65
-20°C~+55°C
3 x 1.5~2.5mm² (L+N+PE)
2 x $\Phi 26$: 1 x M25 x 1.5 cable gland (DQM-I Ex e, carbon steel), 1 x M25 x 1.5 plug
 $\Phi 10 \sim \Phi 14$ (mm)



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



Floodlights

BAT53 Series Explosion-proof Floodlights

Technical data

Explosion-proof floodlights

BAT53-400-□□□

Explosion protection

Gas explosion protection

Ex II 2 G Ex d e IIB T3

Dust explosion protection

Ex tD A21 T190°C IP65

Certificates

For gas explosion protection

LCIE 07 ATEX 6106; IECEx CQM 08.0014; BR229792 (Brazil)

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 surface, yellow (RAL1021)

Glass cover

Toughened glass, stands 4J impact

Ballast

Electromagnetic ballast, rapid starting, stable performance

Internal reflector

High-purity aluminium

Trigger

Explosion-proof electronic trigger

Capacitor

Power factor ≥ 0.90 (compensated)

Exposed fastener

Stainless steel

Wire guard (optional)

Powder coated carbon steel, white

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°C~+55°C

Terminal

3 x 1.5~2.5mm² (L+N+PE)

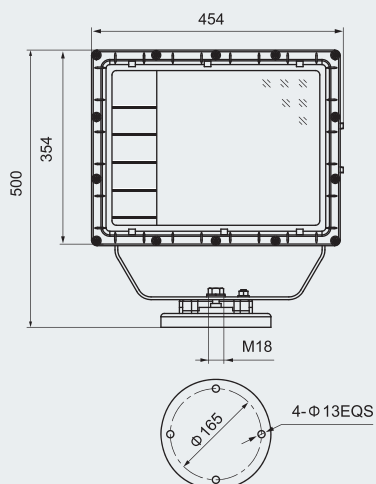
Cable entries

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

Φ 10~Φ 14 (mm)

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



Floodlights

BAT53 Series Explosion-proof Floodlights

Technical data

Explosion-proof floodlights

BAT53-1000-□□□

Explosion protection

- Gas explosion protection
- Dust explosion protection

Ex II 2 G Ex d IIB T3 Gb

Ex II 2 D Ex tb IIIC T193°C Db IP66

Certificates

EPT 15 ATEX 1977X; IECEX CQM 14.0066X

Conformity to standards

EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009

IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008

Material

- Enclosure
- Glass cover
- Ballast
- Trigger
- Capacitor
- Internal reflector
- Exposed fastener

Welded carbon steel, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

Electromagnetic ballast, rapid starting, stable performance

General trigger

Power factor ≥ 0.90 (compensated)

High-purity aluminium

Stainless steel

Lamp

- Lamp holder
- Available lamp and lamp power (W)

E40

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

IP66

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

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

Φ 10~Φ 14 (mm)



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

