

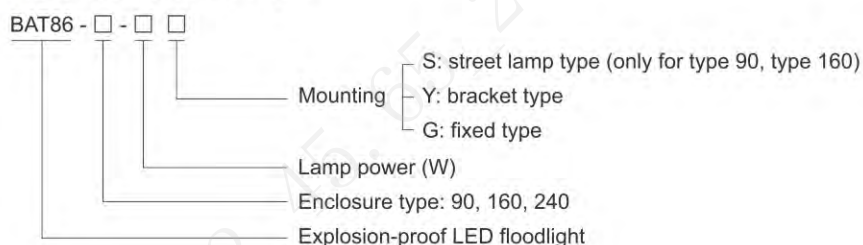
LED Light Fittings

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
 - Class I, Zone 1 and Zone 2
 - Class I, Division 1, Groups B, C, D
- ◆ Three enclosure types: 90, 160, 240
- ◆ Applicable lamp and power (max.240W)
 - LED: 60W, 90W, 120W, 160W, 200W, 240W
- ◆ Isolated LED lamp compartment, CC-CV (constant current-constant voltage) power controller compartment and terminal compartment; Wind-convection heat dissipation structure.
- ◆ The light fittings are supplied without lens. Lighting distribution is of floodlight. The products with power ratings of 60W, 90W, 120W, and 160W are available with optional lenses of 30° and 60°.
- ◆ 240 type lightings adopt light fitting integrated two lamps, the power of whole machine is of 2×200W, 2×240W
- ◆ Low-maintenance due to long service life, which is up to 100,000 operating hours.

Catalogue number logic



Selection table

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BAT86-90-60G	60	6.70	BAT86-90-60Y	60	8.50	BAT86-90-60S	60	7.55
BAT86-90-90G	90	6.70	BAT86-90-90Y	90	8.50	BAT86-90-90S	90	7.55
BAT86-160-120G	120	13.00	BAT86-160-120Y	120	14.80	BAT86-160-120S	120	13.85
BAT86-160-160G	160	13.00	BAT86-160-160Y	160	14.80	BAT86-160-160S	160	13.85
BAT86-240-200G	200	26.80	BAT86-240-200Y	200	28.30	BAT86-240-2×200	2×200	76.20
BAT86-240-240G	240	26.80	BAT86-240-240Y	240	28.30	BAT86-240-2×240	2×240	76.20

Note: 1. The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

2. The light fittings are supplied without lens. Lighting distribution is of floodlight. The products with power ratings of 60W, 90W, 120W, and 160W are available with optional lenses of 30° and 60°.

Zones 1&2; 21&22

LED Light Fittings

BAT86 Series Explosion-proof LED Floodlights

Technical data

Explosion-proof LED floodlights BAT86-90-□□

Explosion protection

Global (IECEx)

Gas and dust

IECEx CQM 21.0015X

Ex db IIB+H₂ T□¹⁾ Gb

Ex tb IIIC T□¹⁾ Db

Europe (ATEX)

TÜV CY 21 ATEX 0206545X

Gas and dust

Ex II 2 G Ex db IIB+H₂ T□¹⁾ Gb

Ex II 2 D Ex tb IIIC T□¹⁾ Db

¹⁾ See Ambient temperature

Certificates

IECEx; ATEX; CU-TR; INMETRO

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Material

Enclosure

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Glass cover

Toughened glass, stands 4J impact

LED driver

Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95, 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

LED module, Multiple LED

Lamp power (W)

60W, 90W (50W and 70W are optional)

Colour rendering index (Ra)

≥70

Colour temperature (CCT)

5700K

Note: cool white is available in general. Warm white or nature white is optional, please specify when ordering.

Rated voltage

100~277V AC 50/60Hz, 130~250V DC

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

T6/T80°C for Tamb: -60°C~+40°C

T4/T130°C for Tamb: -60°C~+60°C

Terminal

3×1.5~4mm² (L+N+PE)

Mounting

Bracket type, fixed type, street lamp type

Cable entries

2×M25×1.5 plugs

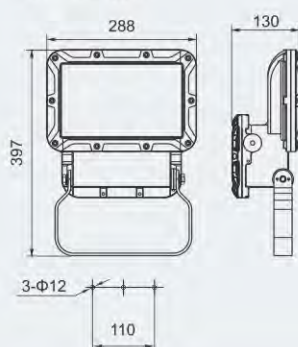
Cable gland

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39

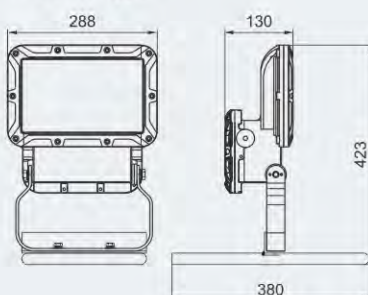


Dimension drawings (all dimensions in mm) - subject to alteration

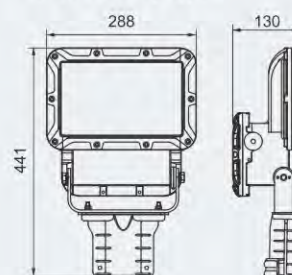
G: fixed type



Y: bracket type



S: street lamp type



LED Light Fittings

BAT86 Series Explosion-proof LED Floodlights

Technical data

Explosion-proof LED floodlights BAT86-160-□□

Explosion protection

Global (IECEX)

Gas and dust

Europe (ATEX)

Gas and dust

IECEX CQM 21.0015X

Ex db IIB T□¹⁾ Gb

Ex tb IIIC T□¹⁾ Db

TÜV CY 21 ATEX 0206545X

Ex II 2 G Ex db IIB T□¹⁾ Gb

Ex II 2 D Ex tb IIIC T□¹⁾ Db

¹⁾ See Ambient temperature

Certificates

Conformity to standards

IECEX; ATEX; CU-TR; INMETRO

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Material

Enclosure

Glass cover

LED driver

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Toughened glass, stands 4J impact

Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit

Stainless steel

Exposed fastener

Lamp

Lamp specification

Lamp power (W)

Colour rendering index (Ra)

Colour temperature (CCT)

LED module, Multiple LED

120W, 160W (100W is optional)

≥70

5700K

Note: cool white is available in general. Warm white or nature white is optional, please specify when ordering.

Rated voltage

Earthing protection

Degree of protection

Ambient temperature

100~277V AC 50/60Hz, 130~250V DC

M5 (internal & external earth bolts)

IP66

120W/160W T6/T80°C for Tamb: -60°C~+40°C

120W/160W T5/T95°C for Tamb: -60°C~+60°C

3×1.5~4mm² (L+N+PE)

Terminal

Mounting

Cable entries

Cable gland

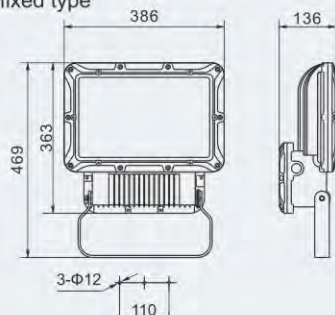
Bracket type, fixed type, street lamp type

2×M25×1.5 plugs

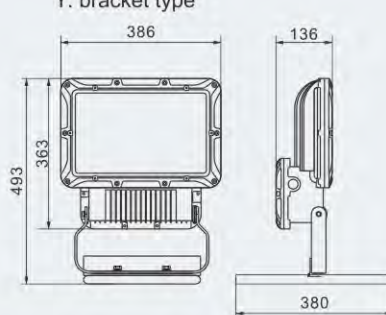
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39

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

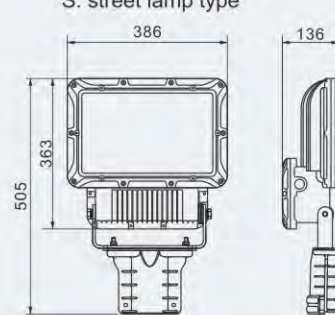
G: fixed type



Y: bracket type



S: street lamp type



LED Light Fittings

BAT86 Series Explosion-proof LED Floodlights

Technical data

Explosion-proof LED floodlights BAT86-240-□□

Explosion protection

Global (IECEx)

Gas and dust

IECEx CQM 21.0015X

Ex db IIB+H₂ T□¹⁾ Gb

Ex tb IIIC T□¹⁾ Db

Europe (ATEX)

TÜV CY 21 ATEX 0206545X

Gas and dust

Ex II 2 G Ex db IIB+H₂ T□¹⁾ Gb

Ex II 2 D Ex tb IIIC T□¹⁾ Db

¹⁾ See Ambient temperature

Certificates

IECEx; ATEX; CU-TR; INMETRO

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-28, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-28, IEC 60079-31

Material

Enclosure

Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)

Glass cover

Toughened glass, stands 4J impact

LED driver

Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95, 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

LED module, Multiple LED

Lamp power (W)

200W, 240W

Colour rendering index (Ra)

≥80

Colour temperature (CCT)

5700K

Note: cool white is available in general. Warm white or nature white is optional, please specify when ordering.

Rated voltage

100~277V AC 50/60Hz, 130~250V DC

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

200W/240W T6/T80°C for Tamb: -60°C~+40°C

200W/240W T4/T130°C for Tamb: -60°C~+60°C

Terminal

3×1.5~4mm² (L+N+PE)

Mounting

Bracket type, fixed type

Cable entries

2×M25×1.5 plugs

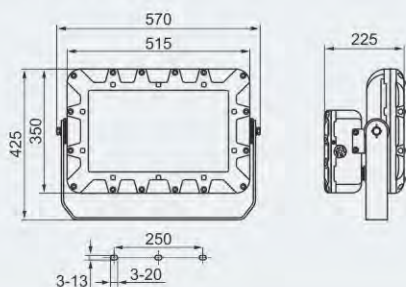
Cable gland

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39

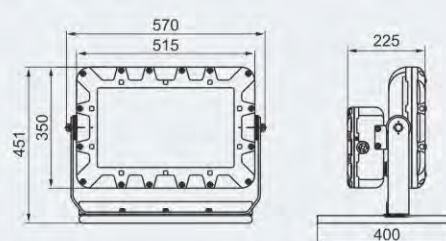


Dimension drawings (all dimensions in mm) - subject to alteration

G: fixed type



Y: bracket type



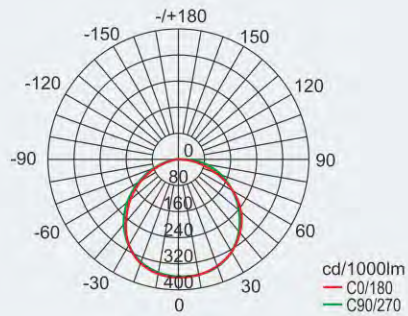
LED Light Fittings

BAT86 Series Explosion-proof LED Floodlights

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5700K (cool white).

BAT86-90-□□

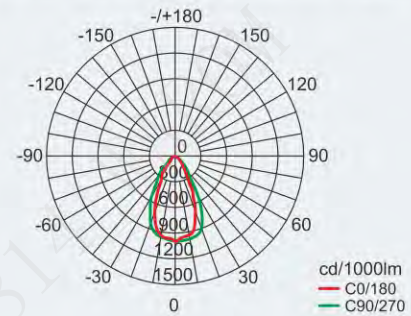
Lamp power (W)	Luminous flux	Wattage
60	9427lm	61.6W
90	14915lm	93.2W



BAT86-90-□□

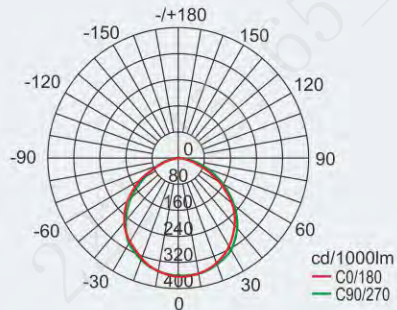
Lamp power (W)	Luminous flux	Wattage
60	8650lm	60W
90	13500lm	91W

Note: Lens of 60° and 30° can be provided on request.



BAT86-160-□□

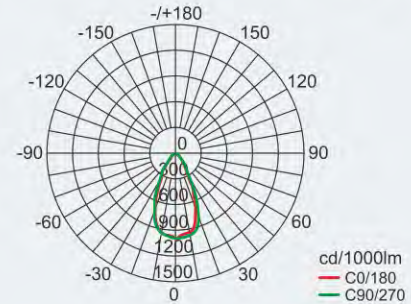
Lamp power (W)	Luminous flux	Wattage
120	19833lm	120.2W
160	27506lm	162.2W



BAT86-160-□□

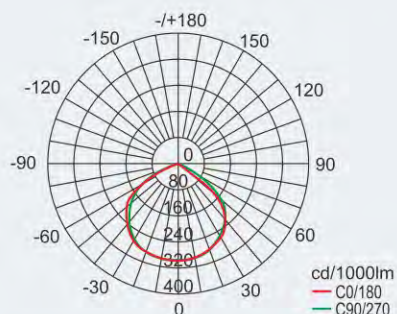
Lamp power (W)	Luminous flux	Wattage
120	19500lm	120W
160	25500lm	160W

Note: Lens of 60° and 30° can be provided on request.



BAT86-240-□□

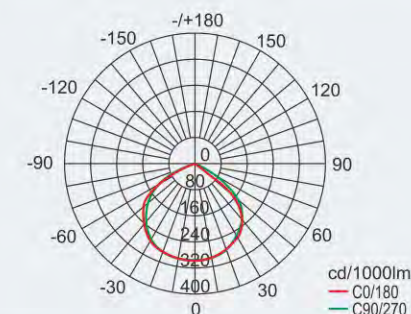
Lamp power (W)	Luminous flux	Wattage
200	34234lm	203.7W
240	40578lm	242W



BAT86-240-□□

Note: Measuring parameters of light fitting integrating two lamps

Lamp power (W)	Luminous flux	Wattage
2×200	68468lm	407.4W
2×240	81156lm	484W



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

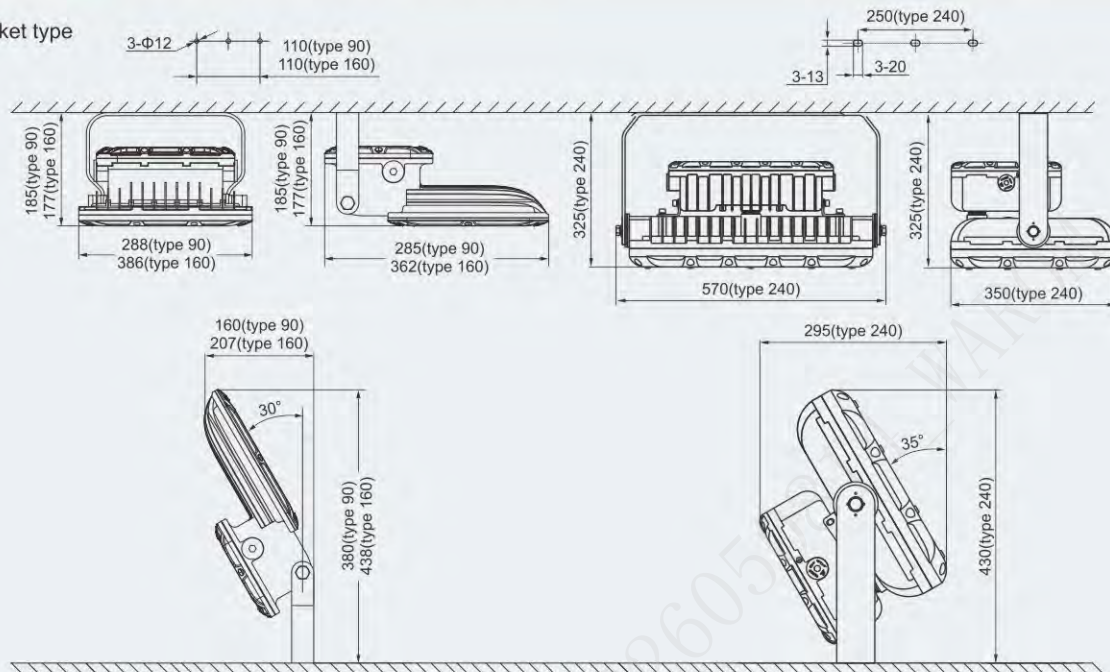


LED Light Fittings

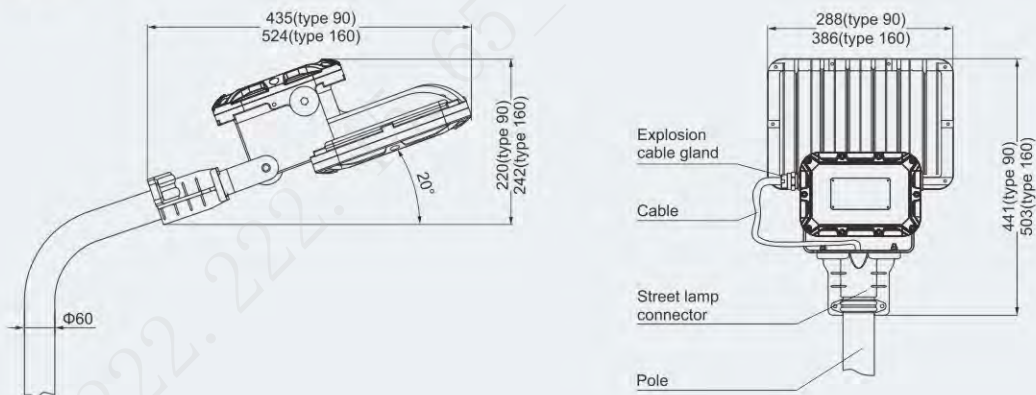
BAT86 Series Explosion-proof LED Floodlights

Mounting type (all dimensions in mm) - subject to alteration

bracket type



street lamp type



The description of light fitting integrated two lamps (2×200W, 2×240W)

