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 C, D
- Three enclosure types:90, 160, 250
- Applicable lamp and power (max.250W)
  LED: 60W, 90W, 120W, 160W, 200W, 250W
- Isolated LED lamp compartment, CC-CV (constant current - constant voltage) power controller compartment and terminal compartment; Wind-convection heat dissipation structure.
- Standard product is of floodlight effect, lens of 40° and 60° can be provided on request to realize spotlight effect.

Catalogue number logic

BAT86 - □-□ □

- Mounting: S: street lamp type; Y: movable type; G: fixed type
- Lamp power (W)
- Enclosure type: 90, 160,250
- Explosion-proof LED floodlight

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	8.40	BAT86-160-120Y	120	10.20	BAT86-160-120S	120	9.25
BAT86-160-160G	160	8.40	BAT86-160-160Y	160	10.20	BAT86-160-160S	160	9.25
BAT86-250-200G	200	13.50	BAT86-250-200Y	200	16.00	BAT86-250-200S	200	14.35
BAT86-250-250G	250	13.50	BAT86-250-250Y	250	16.00	BAT86-250-250S	250	14.35

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. Lens of 40° and 60° can be provided on request. Please specify when ordering.

Zones 1&2; 21&22

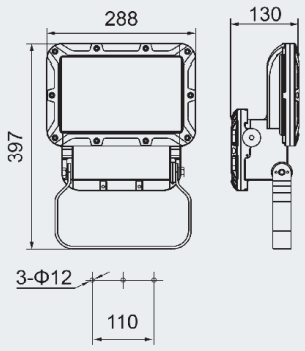
Technical data

Explosion-proof LED floodlights BAT86-90-□□

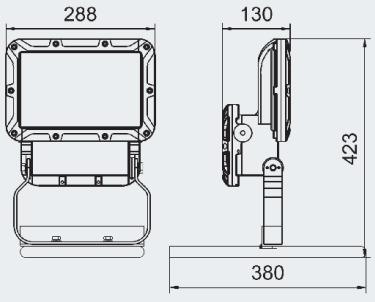
Explosion protection	
Gas explosion protection	Ex II 2 G Ex d IIB T6 Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC T80℃ Db IP66
Certificates	LCIE 14 ATEX 3023X; IECEx CQM 14.0008X; CU-TR
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008
Material	
Enclosure	Copper-free aluminium, 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	International brand of integrated LED, Multiple LED
Lamp power (W)	60W, 90W
Colour Temperature (CCT)	Cool white: 5400~6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Rated voltage	100~300V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66, IP67(optional)
Ambient temperature	-40℃~+55℃
Terminal	3 x 1.5~4mm² (L+N+PE)
Mounting	Movable type, fixed type, street lamp type
Cable entries	2 x M25 x 1.5 plugs
Cable gland	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

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

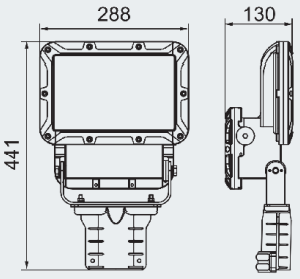
G: fixed type



Y: movable type



S: street lamp type



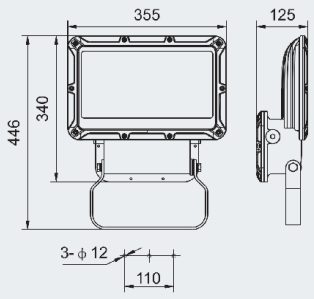
Technical data

Explosion-proof LED floodlights BAT86-160-□□

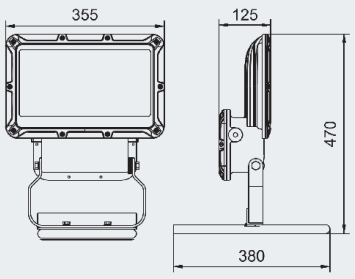
Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex d IIB T□[1] Gb
Dust explosion protection	Ⓔx II 2 D Ex tb IIIC T□[1] Db IP66
	[1] See Ambient temperature
Certificates	LCIE 14 ATEX 3023X; IECEx CQM 14.0008X; CU-TR
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008
Material	
Enclosure	Copper-free aluminium, 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	International brand of integrated LED, Multiple LED
Lamp power (W)	120W, 160W
Colour Temperature (CCT)	Cool white: 5400~6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Rated voltage	100~300V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66, IP67(optional)
Ambient temperature	120W T6/T80℃ for Tamb: -40℃~+40℃ 160W T5/T95℃ for Tamb: -40℃~+40℃ 120W T5/T95℃ for Tamb: -40℃~+55℃ 160W T4/T130℃ for Tamb: -40℃~+55℃
Terminal	3 x 1.5~4mm² (L+N+PE)
Mounting	Movable type, fixed type, street lamp type
Cable entries	2 x M25 x 1.5 plugs
Cable gland	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

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

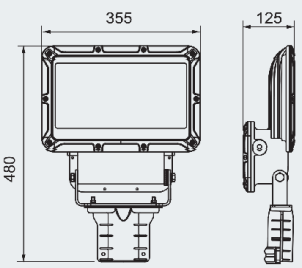
G: fixed type



Y: movable type



S: street lamp type



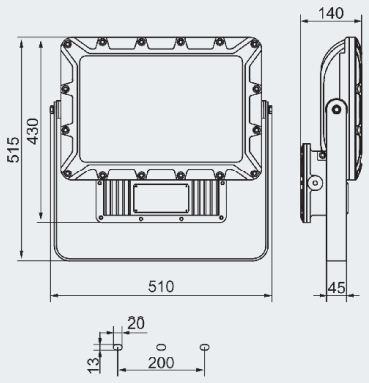
Technical data

Explosion-proof LED floodlights BAT86-250-□□

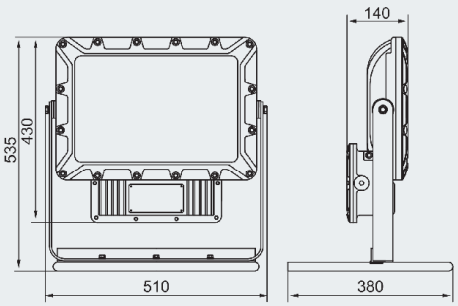
Explosion protection	
Gas explosion protection	Ex II 2 G Ex d IIB+H_2 T5 Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC T95℃ Db IP66
Certificates	LCIE 15 ATEX ____; IECEx
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008
Material	
Enclosure	Copper-free aluminium, 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	International brand of integrated LED, Multiple LED
Lamp power (W)	200W, 250W
Colour Temperature (CCT)	Cool white: 5400~6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Rated voltage	100~300V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66, IP67(optional)
Ambient temperature	-40℃~+55℃
Terminal	3 x 1.5~4mm² (L+N+PE)
Mounting	Movable type, fixed type, street lamp type
Cable entries	2 x M25 x 1.5 plugs
Cable gland	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

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

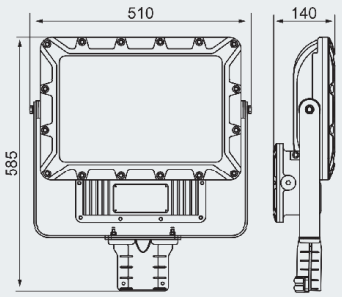
G: fixed type



Y: movable type



S: street lamp type

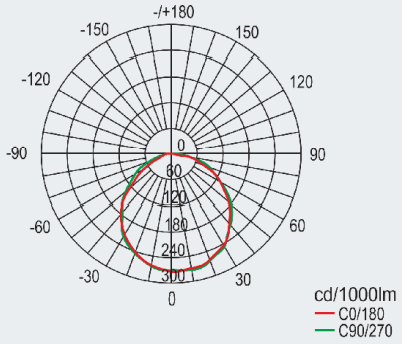


LED Light Fittings
BAT86 Series Explosion-proof LED Floodlights

Photometric data
Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

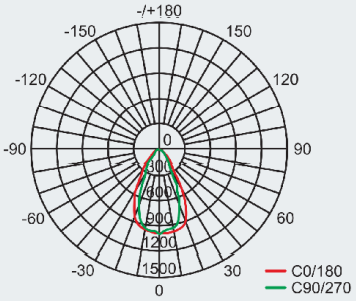
BAT86-90-□□

Rated luminous flux
60W LED: 5600lm
90W LED: 8500lm



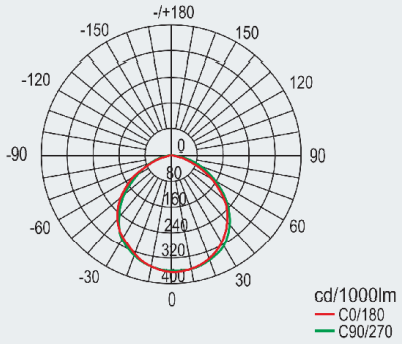
BAT86-90-□□(With 60° lens)

Rated luminous flux
60W LED: 5600lm
90W LED: 8500lm
Note: Lens of 40° and 25° can be provided on request.



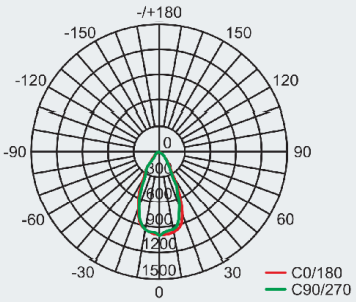
BAT86-160-□□

Rated luminous flux
120W LED: 11000lm
160W LED: 15000lm



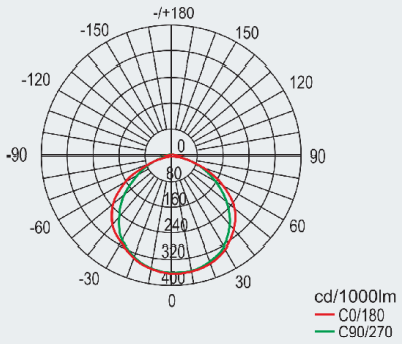
BAT86-160-□□(With 60° lens)

Rated luminous flux
120W LED: 11000lm
160W LED: 15000lm
Note: Lens of 40° and 25° can be provided on request.



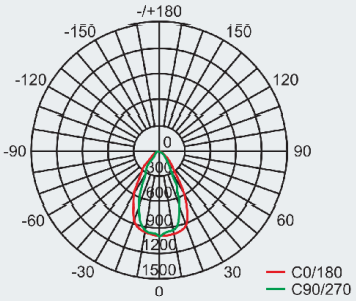
BAT86-250-□□

Rated luminous flux
250W LED: 22500lm



BAT86-250-□□(With 60° lens)

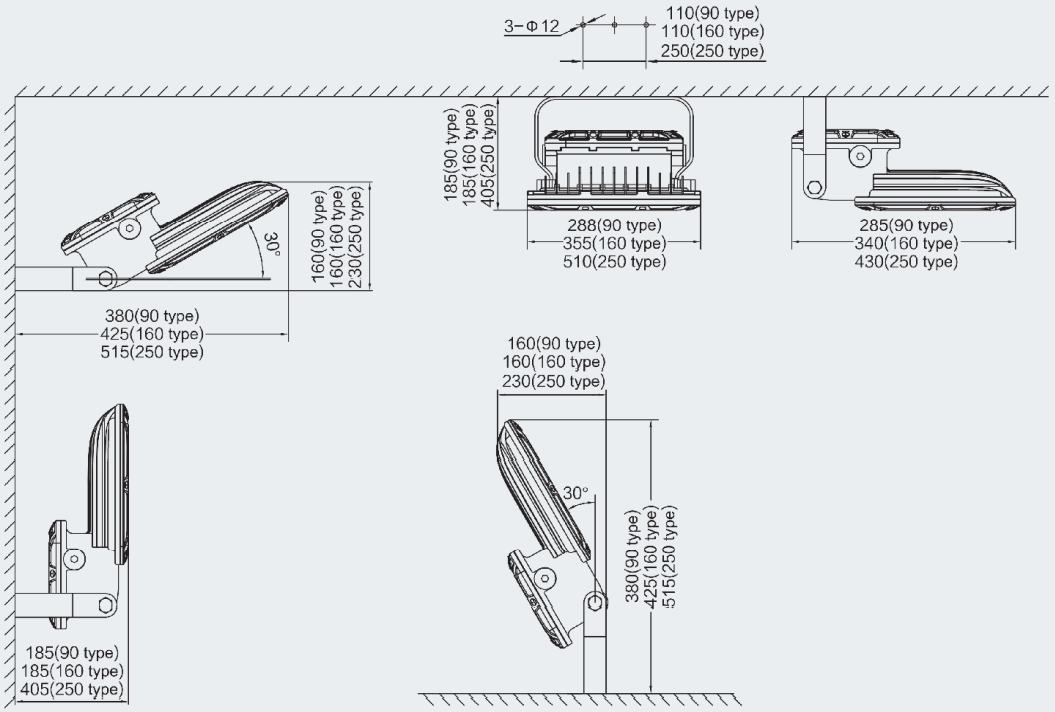
Rated luminous flux
250W LED: 22500lm
Note: Lens of 40° and 25° can be provided on request.



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

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

bracket type



street lamp type

