

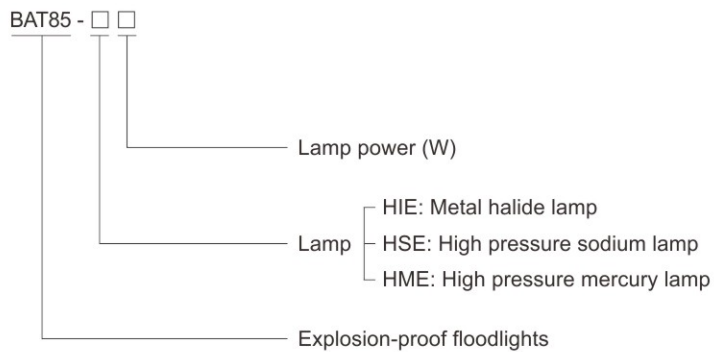
Floodlights

BAT85 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 1, Groups A, B, C, D
- ◆ Enclosure in Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021).
- ◆ Integral control gear, easy installation and maintenance.
- ◆ Toughened glass cover resistant to temperature changes.
- ◆ The light fittings are supplied without lamp source. PHILIPS lamps are recommended.
- ◆ Both American standard and European standard are available.

■ Catalogue number logic



Zones 1&2; 21&22

Floodlights

BAT85 Series Explosion-proof Floodlights

Technical data	
Explosion-proof floodlights	BAT85-□□
Explosion protection	
Global (IECEx)	IECEx CQM 11.0013X
Gas and dust	Ex db IIC T3 or xxx°C ¹⁾ Gb Ex tb IIIC Txxx°C ¹⁾ Db IP66
Europe (ATEX)	TÜV CY 18 ATEX 0206017X
Gas and dust	Ⓔ II 2 G Ex db IIC T3 or xxx°C ¹⁾ Gb Ⓔ II 2 D Ex tb IIIC Txxx°C ¹⁾ Db IP66 ¹⁾ See Selection table
Certificates	IECEx; ATEX; CU-TR
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
Ballast	Electromagnetic ballast, rapid starting, stable performance
Trigger	General trigger
Power factor	COS φ ≥ 0.90 (compensated)
Internal reflector	High-purity aluminium
Exposed fastener	Stainless steel
Lamp	
Lamp holder	European standard: E27, American standard: E26
Available lamp	Metal halide lamp (HIE): 70W, 100W, 150W High pressure sodium lamp (HSE): 70W, 100W High pressure mercury lamp (HME): 80W, 125W
Lamp holder	European standard: E40, American standard: E39
Available lamp	Metal halide lamp (HIE): 250W, 400W High pressure sodium lamp (HSE): 150W, 250W, 400W High pressure mercury lamp (HME): 250W, 400W
Rated voltage	European standard: 120V, 208V, 220~240V, 250V, 277V AC 50Hz (60Hz is optional) American standard: 120V, 208V, 220~240V, 250V, 277V AC 60Hz (50Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-40°C~+60°C(+40°C)
Terminal	3 x 1.5~4mm ² (L+N+PE)
Cable entries	2 x M25 x 1.5 plugs
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.
Weight	European standard: 28.50kg American standard: 31.40kg



Floodlights

BAT85 Series Explosion-proof Floodlights

Selection table

Rated voltage	Lamp	Lamp power (W)	Temperature classes			
			-40℃≤Ta≤+40℃		-40℃≤Ta≤+55℃	
			Gas	Dust	Gas	Dust
120V AC 50/60Hz	HIE	70, 100, 150	T4	T130℃	T4	T130℃
		175, 250, 400	T3	T195℃	T3	T195℃
	HSE	70, 100	T6	T80℃	T5	T95℃
		150, 250, 400	T3	T195℃	T3	T195℃
208V AC 50/60Hz	HIE	70, 100, 150	T5	T95℃	T4	T130℃
		175, 250, 400	T3	T195℃	T3	T195℃
	HME	80, 125	T5	T95℃	T4	T130℃
		250, 400	T3	T195℃	T3	T195℃
	HSE	70, 100	T6	T80℃	T5	T90℃
		150, 250, 400	T3	T195℃	T3	T195℃
220V AC 50/60Hz	HIE	175, 250, 400	T3	T195℃	T3	T195℃
	HME	250, 400	T3	T195℃	T3	T195℃
	HSE	150, 250, 400	T3	T195℃	T3	T195℃
230V AC 50/60Hz	HIE	70, 100, 150	T4	T130℃	T3	T195℃
		175, 250, 400	T3	T195℃	T3	T195℃
	HME	80, 125	T4	T130℃	T4	T130℃
		250	T4	T130℃	T3	T195℃
		400	T3	T195℃	213℃	T213℃
	HSE	70, 100, 150, 250	T4	T130℃	T4	T130℃
400		T3	T195℃	211℃	T211℃	
240V AC 50/60Hz	HIE	70, 100, 150	T4	T130℃	T4	T130℃
		175, 250, 400	T3	T195℃	T3	T195℃
	HME	80, 125, 250	T4	T130℃	T3	T195℃
		400	T3	T195℃	216℃	T216℃
	HSE	70, 100	T4	T130℃	T4	T130℃
		150, 250	T3	T195℃	T3	T195℃
400	217℃	T217℃				
250V AC 50/60Hz	HIE	70, 100, 150	T4	T130℃	T4	T130℃
		175, 250, 400	T3	T195℃	T3	T195℃
	HME	80, 125	T5	T95℃	T4	T130℃
		250	T4	T130℃	T3	T195℃
		400	T3	T195℃	221℃	T221℃
	HSE	70, 100	T5	T95℃	T4	T130℃
150, 250		T3	T195℃	T3	T195℃	
400		211℃	T211℃	231℃	T231℃	
277V AC 50/60Hz	HIE	70, 100, 150	T5	T95℃	T4	T130℃
		175, 250	T4	T130℃	T3	T195℃
		400	T3	T195℃	213℃	T213℃
	HME	80, 125	T5	T95℃	T4	T130℃
		250	T3	T195℃	T3	T195℃
	HSE	70, 100	T4	T130℃	T4	T130℃
150, 250		T3	T195℃	T3	T195℃	
		400	210℃	T210℃	230℃	T230℃



Floodlights

BAT85 Series Explosion-proof Floodlights

Photometric data

BAT85-□□

Rated luminous flux

70W Metal halide lamp: 10500 lm

100W Metal halide lamp: 10500 lm

150W Metal halide lamp: 10500 lm

250W Metal halide lamp: 25000 lm

70W High pressure sodium lamp: 18000 lm

100W High pressure sodium lamp: 18000 lm

150W High pressure sodium lamp: 18000 lm

250W High pressure sodium lamp: 33200 lm

80W High pressure mercury lamp: 13000 lm

125W High pressure mercury lamp: 13000 lm

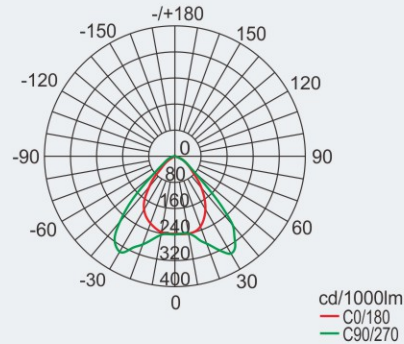
250W High pressure mercury lamp: 13000 lm

400W Metal halide lamp: 42500 lm

400W High pressure sodium lamp: 56500 lm

400W High pressure mercury lamp: 22000 lm

The data from Philips lamp



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

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

