

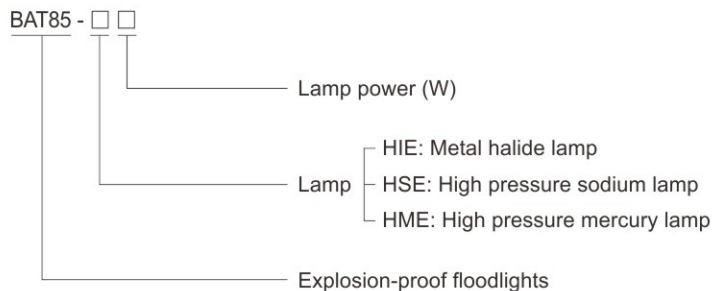
Floodlights

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. PHILIPS lamps are recommended.
- ◆ Both American standard and European standard are available.

Catalogue number logic

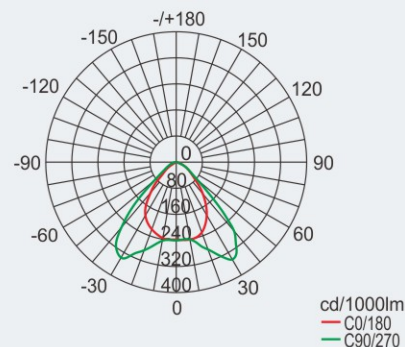


Photometric data

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

Zones 1&2; 21&22

Floodlights

BAT85 Series Explosion-proof Floodlights

Technical data	
Explosion-proof floodlights	BAT85-□□
Explosion protection Global (IECEx) Gas and dust Europe (ATEX) Gas and dust	IECEx CQM 11.0013 Ex db IIC T3 or xxx°C ¹⁾ Gb Ex tb IIC Txxx°C ¹⁾ Db IP66 TUV CY 18 ATEX 0206017X ⊕ II 2 G Ex db IIC T3 or xxx°C ¹⁾ Gb ⊕ II 2 D Ex tb IIC Txxx°C ¹⁾ Db IP66 ¹⁾ See Selection table
Certificates Conformity to standards	IECEx; ATEX; CU-TR EN 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-31
Material Enclosure Glass cover Ballast Trigger Power factor Internal reflector Exposed fastener	Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021) Toughened glass, stands 4J impact Electromagnetic ballast, rapid starting, stable performance General trigger COS $\phi \geq 0.90$ (compensated) High-purity aluminium Stainless steel
Lamp Lamp holder Available lamp Lamp holder Available lamp	European standard: E27, American standard: E26 Metal halide lamp (HIE): 70W, 100W, 150W High pressure sodium lamp (HSE): 70W, 100W High pressure mercury lamp (HME): 80W, 125W European standard: E40, American standard: E39 Metal halide lamp (HIE): 250W, 400W High pressure sodium lamp (HSE): 150W, 250W, 400W High pressure mercury lamp (HME): 250W, 400W 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) M5 (internal & external earth bolts)
Rated voltage	IP66 -20°C~+55°C 3 x 1.5~4mm ² (L+N+PE) 2 x M25 x 1.5 plugs DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~31. European standard: 28.50kg American standard: 31.40kg
Earthing protection Degree of protection Ambient temperature Terminal Cable entries Cable gland (optional) Weight	

Selection table					Dimension drawings (all dimensions in mm) - subject to alteration		
Rated voltage	Lamp	Lamp power (W)	Temperature classes				
			-20°C ≤ Ta ≤ +40°C		-20°C ≤ Ta ≤ +55°C		
			Gas	Dust	Gas	Dust	
120V AC 50/60Hz	HIE	70, 100, 150, 250, 400	T3	190°C	T3	190°C	
	HSE	70, 100, 150, 250, 400	T3	190°C	T3	190°C	
208/220V AC 50/60Hz	HIE	70, 100, 150, 250, 400	T3	190°C	T3	190°C	
	HME	80, 125, 250, 400	T3	190°C	T3	190°C	
	HSE	70, 100, 150, 250, 400	T3	190°C	T3	190°C	
	HIE	70, 100, 150, 250, 400	T3	190°C	T3	190°C	
230V AC 50/60Hz		80, 125, 250 400	T3	190°C	T3	190°C	
			T3	190°C	208°C	208°C	
	HSE	70, 100, 150, 250 400	T3	190°C	T3	190°C	
			T3	190°C	206°C	206°C	
240V AC 50/60Hz	HIE	70, 100, 150, 250, 400	T3	190°C	T3	190°C	
	HME	80, 125, 250 400	T3	190°C	T3	190°C	
			T3	190°C	211°C	211°C	
	HSE	70, 100, 150, 250 400	T3	190°C	T3	190°C	
		T3	190°C	212°C	212°C		
250V AC 50/60Hz	HIE	70, 100, 150, 250, 400	T3	190°C	T3	190°C	
	HME	80, 125, 250 400	T3	190°C	T3	190°C	
			201°C	201°C	216°C	216°C	
	HSE	70, 100, 150, 250 400	T3	190°C	T3	190°C	
		211°C	211°C	226°C	226°C		
277V AC 50/60Hz	HIE	70, 100, 150, 250 400	T3	190°C	T3	190°C	
			T3	190°C	208°C	208°C	
	HME	80, 125, 250	T3	190°C	T3	190°C	
	HSE	70, 100, 150, 250 400	T3	190°C	T3	190°C	
		210°C	210°C	225°C	225°C		

Technical drawing of the lamp showing front and side views with dimensions. The front view shows a rectangular lamp body with a central bulb, overall width 532 mm, height 460 mm, and depth 308 mm. The side view shows the lamp mounted on a bracket with a height of 250 mm and a mounting arm length of 40 mm. The base is labeled M18. A detail view of the base shows a circular mounting plate with a diameter of 165 mm and four mounting holes with a diameter of 13 mm, labeled 4-Φ13EQS.

