

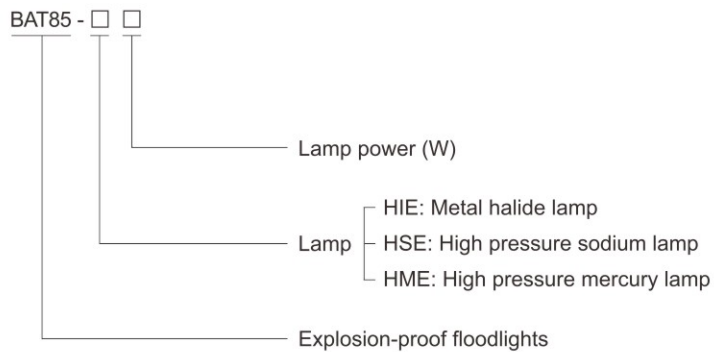
Floodlights

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

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Technical data	
Explosion-proof floodlights	BAT85-□□
Explosion protection	
Global (IECEX)	IECEX CQM 11.0013X
Gas and dust	Ex db IIC T3/T4/T5/T6 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/T4/T5/T6 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	COSΦ ≥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	3×1.5~4mm ² (L+N+PE)
Cable entries	2×M25×1.5 plugs
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39.
Weight	European standard: 28.50kg American standard: 31.40kg



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Selection table

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



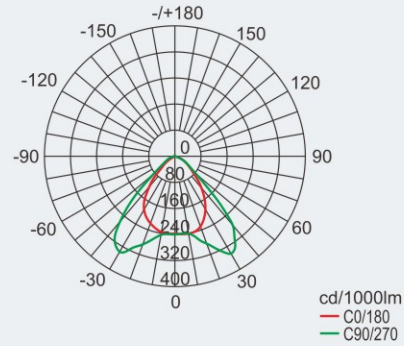
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Photometric data

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

