

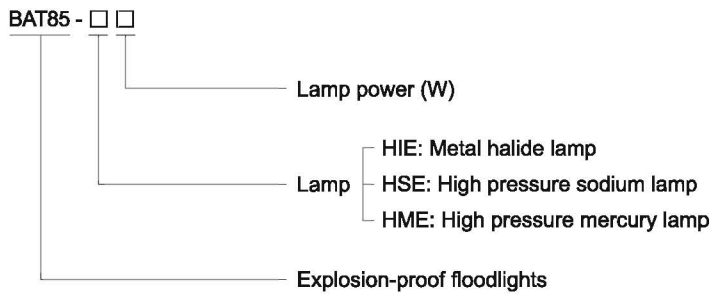


## Floodlights

### 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, 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

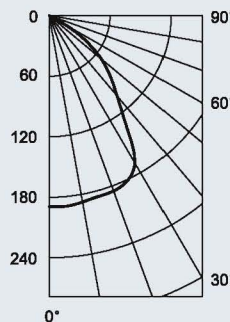


### Photometric data

#### Photometric data of 250W metal halide lamp

Rated luminous flux: 23000lm;  
The data from PHILIPS lamp;  
Luminous intensity distribution cd/1000lm

- 175W Metal halide lamp\*0.61
- 150W High pressure sodium lamp\*0.78
- 250W High pressure sodium lamp\*1.22
- 175W High pressure mercury lamp\*0.36
- 250W High pressure mercury lamp\*0.55
- 400W Metal halide lamp\*1.40
- 400W High pressure sodium lamp\*2.36
- 400W High pressure mercury lamp\*0.82



Angle	CP	Angle	CP
0	4066	50	1112
5	3773	55	945
10	3536	60	404
15	3385	65	292
20	3340	70	161
25	3292	75	90
30	3036	80	46
35	2475	85	0
40	1763	90	0
45	1404		

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

## Zones 1&2; 21&22

Technical data	
<b>Explosion-proof floodlights</b>	<b>BAT85-□□</b>
<b>Explosion protection</b>	<p>Gas explosion protection Ex d IIC T3<sup>1)</sup> or xxx<sup>1)</sup> Gb Ex d IIC T3<sup>1)</sup> or xxx<sup>1)</sup> Gb</p> <p>Dust explosion protection Ex t IIC T190<sup>1)</sup> or xxx<sup>1)</sup> Db IP65 Ex t IIC T190<sup>1)</sup> or xxx<sup>1)</sup> Db IP65</p> <p><sup>1)</sup> See Selection Table for temperature classification</p>
<b>Certificates</b>	LCIE 10 ATEX 3083; IECEx CQM 11.0013; FM (USA)
<b>Conformity to standards</b>	EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008
<b>Material</b>	
Enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Glass cover	Toughened glass, stands 4J impact
Ballast	Choke ballast, rapid starting, stable performance
Trigger	General trigger
Capacitor	Power factor ≥ 0.90 (compensated)
Internal reflector	High-purity aluminium
Exposed fastener	Stainless steel
<b>Lamp</b>	
Lamp holder	E40
Available lamp	Metal halide lamp (HIE): 175W, 250W, 400W High pressure sodium lamp (HSE): 150W, 250W, 400W High pressure mercury lamp (HME): 175W, 250W, 400W
<b>Rated voltage</b>	European standard: 120V, 208V, 220~240V, 250V, 277V AC 50Hz (60Hz is optional) American standard: 120V, 208V, 240V, 277V AC 60Hz (50Hz is optional)
<b>Earthing protection</b>	M5 (internal & external earth bolts)
<b>Degree of protection</b>	IP65
<b>Ambient temperature</b>	-20°C~+55°C
<b>Terminal</b>	3 x 1.5~2.5mm <sup>2</sup> (L+N+PE)
<b>Cable entries</b>	2 x M25 x 1.5 plug
<b>Cable gland (optional)</b>	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.
<b>Weight</b>	European standard: 28.50kg American standard :31.40kg

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

Rated voltage	Lamp	Lamp power (W)	Temperature classification			
			-20°C ≤ Ta ≤ +40°C		-20°C ≤ Ta ≤ +55°C	
			Gas	Dust	Gas	Dust
120V AC 50/60Hz	HIE	175, 250, 400	T3	190°C	T3	190°C
	HSE	150, 250, 400	T3	190°C	T3	190°C
208/220V AC 50/60Hz	HIE	175, 250, 400	T3	190°C	T3	190°C
	HME	175, 250, 400	T3	190°C	T3	190°C
	HSE	150, 250, 400	T3	190°C	T3	190°C
230V AC 50/60Hz	HIE	175, 250, 400	T3	190°C	T3	190°C
	HME	175, 250, 400	T3	190°C	T3	190°C
	HSE	150, 250, 400	T3	190°C	208°C	208°C
240V AC 50/60Hz	HIE	175, 250, 400	T3	190°C	T3	190°C
	HME	175, 250, 400	T3	190°C	211°C	211°C
	HSE	150, 250, 400	T3	190°C	212°C	212°C
250V AC 50/60Hz	HIE	175, 250, 400	T3	190°C	T3	190°C
	HME	175, 250, 400	T3	190°C	216°C	216°C
	HSE	150, 250, 400	T3	190°C	226°C	226°C
277V AC 50/60Hz	HIE	175, 250, 400	T3	190°C	T3	190°C
	HME	175, 250, 400	T3	190°C	208°C	208°C
	HSE	150, 250, 400	T3	190°C	225°C	225°C

