

ATX™ PB Series Floodlights

Flameproof. Metal Halide, Sodium, Mercury Vapor, Halogen

NEC/CEC:
AEx/Ex de IIB IP 66
Ex de IIB
IP66

ATEX/IECEX:
Zone 1 and 2 - 21 and 22
⊕ II 2 GD
IP66 - IK10

Applications

- Designed for large area lighting in industrial outdoor and indoor hazardous areas.
- Ideal for use in Zones 1 and 2 and 21 and 22 in the oil and gas industry. In locations such as: refineries, pipelines, warehouses, offshore platforms and drilling rigs.

Features

- Gray epoxy painted light marine grade aluminum housing and door.
- Fast and easy lamp replacement via threaded cover on the side of the fixture. The cover is fitted with a short safety chain.
- Lampholder can be easily field-adjustable for either a narrow or wide beam.
- Fixtures operate safely in high ambient temperatures up to +55 °C (+131°F) and in low ambient temperature up to -40 °C (-40 °F).
- Electrical components (ballast, ignitor and capacitor) are thermally separated from the lighting compartment with a bulkhead, providing extended life.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto 2 captive terminals 2 x 6 mm² (2 x 0.009 in²); 2 internal earth terminals capacity 6 mm² (0.009 in²) and 1 external earth terminal capacity 4 mm² (0.006 in²).
- 2 x 20 mm (2 x 0.79 in) clearance holes throughwire cable entries supplied with:
 - One Ex e unarmored cable gland — sealing diameter 6.5 mm to 14.5 mm (0.2 in to 0.57 in)
 - One blanking plug
 - Two M20 locknuts
- For use with either tubular or ellipsoidal shape lamps. See ordering information for details.
- Choice of mounting with galvanized hinged bracket fixed mounting or tube/pole mounting with galvanized brackets.
- Thermoshock and impact-resistant glass factory sealed into the cover frame.
- Operates in any position.
- Reversible hinge allows for fixture access from either side.
- E40 or H3 lampholders for the 2 x 70 W Vac/Vdc halogen version.
- Internal symmetric reflector.

Standard Materials

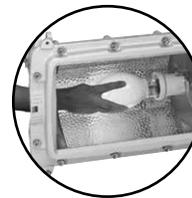
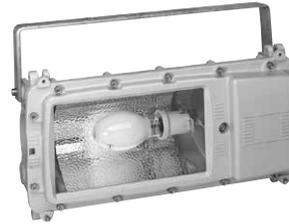
- Housing and door: copperfree marine-grade aluminum alloy
- Lens: toughened safety glass
- Reflector: bright highly polished aluminum
- Bolts: stainless steel bolt
- Cable gland and blanking plug: polyamide
- Locknut: nickel plated brass

Standard Finishes

- Housing and door: gray epoxy powder paint

Options

- Other voltages, please contact your sales representative.
- Hinged bracket available: add suffix -T at the end of the catalog number.
- Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V (loop in/loop out wiring possible): add suffix -T at the end of the catalog number.



- Asymmetrical light distribution is available, add suffix -A to end of catalog number.
- Screwed-on overhead diffuser out of galvanized steel with black painting (see accessories).
- Screwed-on zinc-coated protection guard (see accessories).

NEC/CEC Certifications and Compliances

- AEx/Ex de IIB IP 66
- cCSAus Ex de IIB IP 66
- 175 W Metal Halide and Pulse Start Metal Halide
- Safety starter

ATEX/IECEX Certifications and Compliances

- Certification Type: PJd
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⊕ II 2 G
 - Type of Protection: Ex de IIB
 - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
 - Dust: Zone 21 - 22
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ +131 °F)
- CE Declaration of Conformity: 50207
- ATEX Certificate: LCIE 99/ ATEX 6002
- IECEx Certificate: IECEx LCI 04.0020
- Index of Protection according EN/IEC 60529: IP66 (Type PB)
- Impact Resistance (shock): IK10

EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

ATX™ PB Series Floodlights

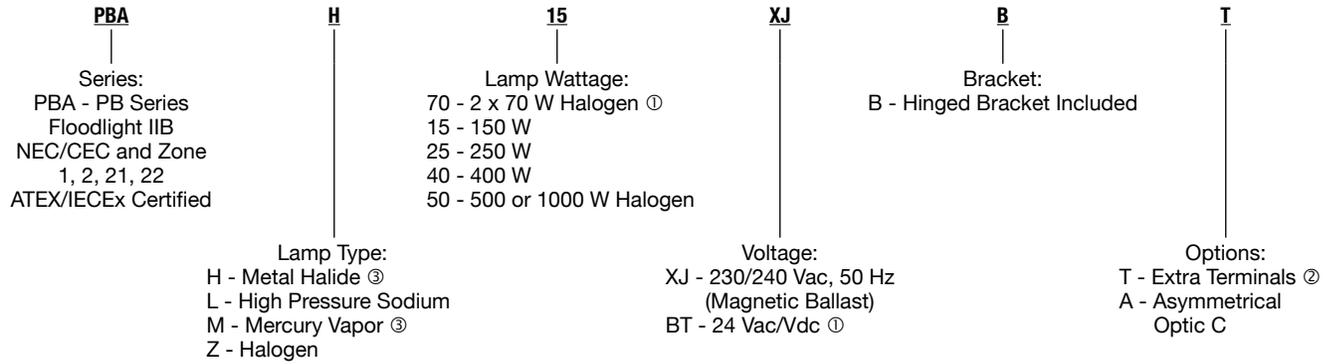
Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

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IP66

ATEX/IECEX:
Zone 1 and 2 - 21 and 22
II 2 GD
IP66 - IK10

Order using catalog numbering guide below or select catalog number from the following pages.

Catalog Numbering Guide — PB Series Floodlights



HID/FLOODLIGHT: NEC/CEC, ATEX/IECEX FLAMEPROOF

T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage	Gas Temperature Rating According to Ta			Dust Surface Temperature °C (°F)
	+40 °C (+104°F)	+50 °C (+122°F)	+55 °C (+131°F)	
2 x 70 W - H3 ①	T4	T4	T4	+130 (+266)
150 W High Pressure Sodium	T4	T3	T3	+145 (+293)
250 W High Pressure Sodium	T3	T3	T3	+195 (+383)
250 W Metal Halide	T3	T3	T3	+197 (+387)
250 W Mercury Vapor	T3	T3	T3	+194 (+381)
400 W High Pressure Sodium	T3	T3	T3	+189 (+372)
400 W Metal Halide	T3	T3	T3	+193 (+379)
400 W Mercury Vapor	T3	T3	T3	+195 (+383)
600 W High Pressure Sodium	T2	T2	T2	+257 (+495)
500 W Halogen	T2	T2	T2	+267 (+513)
1000 W Halogen	T1	T1	T1	+378 (+712)

① 2 x 70 W Halogen 24 Vac/Vdc.

② 3 Phase + Neutral.

③ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

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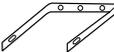
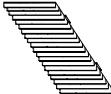
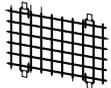
ATEX/IECEx:
Zone 1 and 2 - 21 and 22
II 2 GD
IP66 or IP66/67 - IK10

HID/FLOODLIGHT: NEC/CEC, ATEX/IECEx FLAMEPROOF

Lamp Wattages	Lampholder	Voltage (+/-10%)	Lamp Type		Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number ② ③
			Ellipsoidal	Tubular			
High Pressure Sodium							
150	E40	230/240 V, 50 Hz	x	x	29.3 (65)	79.4 (4847)	PBAL15XJB
250	E40	230/240 V, 50 Hz	x	x	30.3 (67)	79.4 (4847)	PBAL25XJB
400	E40	230/240 V, 50 Hz	-	x	31.8 (70)	79.4 (4847)	PBAL40XJB
Mercury Vapor ④							
250	E40	230/240 V, 50 Hz	x	x	29.3 (65)	79.4 (4847)	PBAM25XJB
400	E40	230/240 V, 50 Hz	-	x	29.8 (66)	79.4 (4847)	PBAM40XJB
Metal Halide							
250	E40	230/240 V, 50 Hz	x	x	30.3 (67)	79.4 (4847)	PBAH25XJB
400	E40	230/240 V, 50 Hz	-	x	31.8 (70)	79.4 (4847)	PBAH40XJB
Halogen ④							
500/1000	E40	-	-	x	26.3 (58)	79.4 (4847)	PBAZ50B
2 x 70	H3	24 Vac/Vdc, 50 Hz	-	-	27.3 (60)	79.4 (4847)	PBAZ70BTB ①



Accessories

	Catalog Number
Galvanized Steel Hinged Brackets	
	PBHBG
Pole/Tube Mounting Galvanized Steel Brackets	
	1-1/4" to 1-1/2" PNHC49G
	2" PNHC60G
Flat Surface Mounting Galvanized Steel Brackets	
	PNSBG
400 W Mercury Vapor Lamp	
	LM400E40
Screwed-on Overhead Diffuser	
	PBGDG
Screwed-on Protective Guard	
	PBPGZ

Note : Floodlights supplied with hinged mounting bracket, 1 plug, 1 M20 cable gland — 6.5 mm to 14.5 mm (0.26 in to 0.57 in) diameter. Lamps are not included.

① Supplied with 2 x 70 W H3 bulbs, 24 Vac/Vdc.

② Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V: add suffix **-T** at the end of the catalog number.

③ Asymmetrical light distribution is available, add suffix **-A** to end of catalog number.

④ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

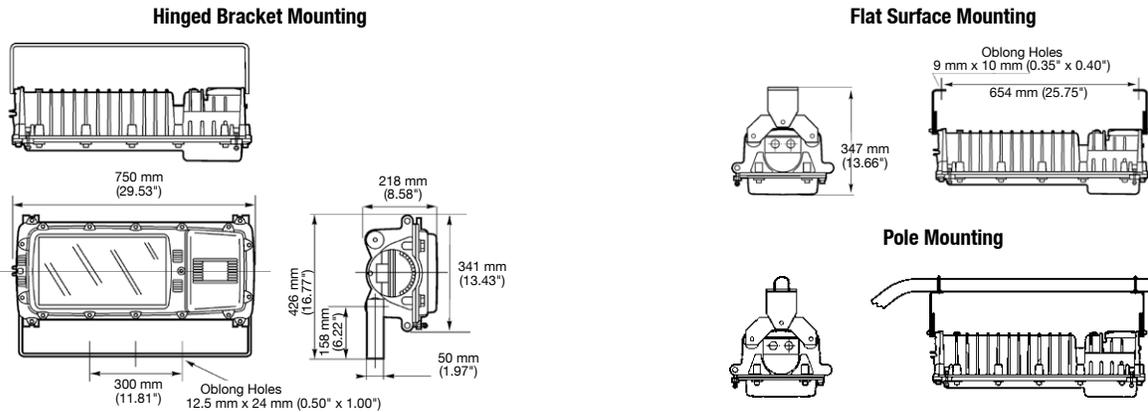
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Dimensions in Millimeters (Inches)



Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120
Luminaire symbol according to NF C 71-121

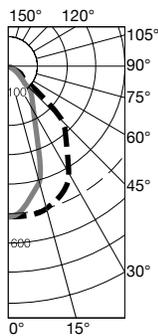
--- Longitudinal
— Transverse

Narrow beam Metal Halide 250 W
Efficiency 68.3%
NF C 71-121: 0.68B

CANDELA DISTRIBUTION

0-180 90-270

	0	150°	120°
0	505	505	
5	515	499	
10	512	469	
15	501	403	
20	476	312	
25	453	248	
30	427	190	
35	394	146	
40	368	117	
45	290	97	
50	160	12	
55	51	7	
60	34	4	
65	15	4	
70	6	4	

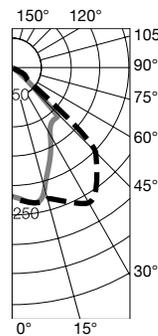


Narrow beam Metal Halide 400 W ①
Efficiency 49.3%
NF C 71-121: 0.49C

CANDELA DISTRIBUTION

0-180 90-270

	0	150°	120°
0	217	217	
5	210	219	
10	218	231	
15	223	205	
20	238	193	
25	255	148	
30	266	132	
35	263	130	
40	244	116	
45	201	104	
50	136	37	
55	85	15	
60	51	8	
65	28	6	
70	5	4	

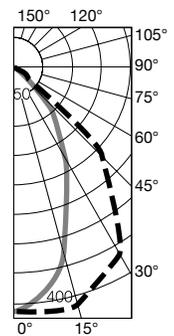


Narrow beam Halogen 1000 W
Efficiency 59.2%
NF C 71-121: 0.59B

CANDELA DISTRIBUTION

0-180 90-270

	0	150°	120°
0	417	417	
5	406	418	
10	419	399	
15	419	330	
20	408	266	
25	398	218	
30	371	177	
35	344	142	
40	295	115	
45	213	98	
50	135	12	
55	68	7	
60	34	4	
65	16	3	
70	5	3	

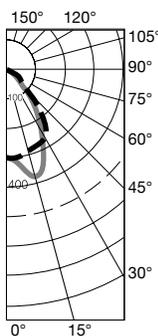


Wide beam Metal Halide 250 W
Efficiency 67.9%
NF C 71-121: 0.68C

CANDELA DISTRIBUTION

0-180 90-270

	0	150°	120°
0	301	301	
5	303	318	
10	299	342	
15	294	387	
20	287	382	
25	286	306	
30	271	237	
35	231	208	
40	172	186	
45	133	140	
50	83	104	
55	48	18	
60	34	8	
65	23	6	
70	6	6	

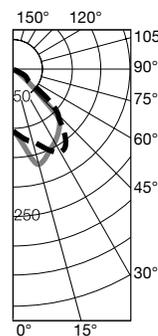


Wide beam Metal Halide 400 W ①
Efficiency 46.7%
NF C 71-121: 0.46C

CANDELA DISTRIBUTION

0-180 90-270

	0	150°	120°
0	105	105	
5	104	106	
10	108	130	
15	124	165	
20	148	177	
25	167	183	
30	165	147	
35	142	127	
40	116	113	
45	74	115	
50	52	103	
55	48	40	
60	44	13	
65	34	9	
70	18	6	

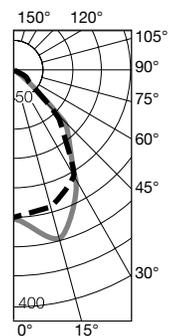


Wide beam Halogen 1000 W
Efficiency 57.7%
NF C 71-121: 0.57C

CANDELA DISTRIBUTION

0-180 90-270

	0	150°	120°
0	251	251	
5	244	255	
10	247	272	
15	245	293	
20	237	306	
25	229	262	
30	213	213	
35	194	188	
40	163	161	
45	120	133	
50	82	105	
55	52	18	
60	35	8	
65	20	5	
70	8	5	



① 400 W Metal Halide: Efficiency rate lower than 250 W due to thermal deflector between glass and lamp, requested for T3.