

Areamaster™ ATEX PN Series Floodlights

Zone 2 – 21 and 22. Metal Halide, High Pressure Sodium, Mercury Vapor

Listed for simultaneous exposure to gas, combustible dusts and flammable gases or vapors.

ATEX/IECEX:
Zone 2 – 21 and 22
⊕ II 2 D - ⊕ II 3 GD
IP66 - IK07/08

Applications

- Powerful, efficient floodlights for large areas such as industrial complexes and ship loading areas.
- Rated for use in hazardous areas.

Features

- Highly efficient, integrally ballasted floodlight. Has compact, lightweight, yet rugged die cast aluminum construction.
- Simple installation and maintenance.
- Integral ballast:
 - ATEX/IEC: 230/240 V, 50 Hz
- One piece lens cover.
- Heavy duty, high temperature silicone rubber gasket, firmly seated.
- Socket: E40 (E27 for 70 W HPS version).
- Reflectors: double segment compound parabolic with finish for maximum efficiency.
- Mounting: yoke mount.

Standard Materials

- Ballast housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Socket: heavy duty porcelain with heavy gauge brass shell
- Reflector: finished aluminum
- Yoke mount: zinc plated steel
- Bolts: stainless steel

Standard Finishes

- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: porcelain

ATEX/IECEX Certifications and Compliances

- Certification Type: PjN
 - Gas: Zone 2
 - Conforming to ATEX 94/9/CE: ⊕ II 3 G
 - Type of Protection: Ex nR IIC Gc
 - Temperature Class: T2 to T4
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F) [-40 °C to +50 °C (-40 °F to 131 °F) for body size L]
 - ATEX Certificate: LCIE 08 ATEX 6035X
 - IECEX Certificate: IECEX LCI 04.0015
 - Dust: Zone 22
 - Conforming to ATEX 94/9/CE: ⊕ II 3 D
 - Type of Protection: Ex t IIIC Dc
 - Surface Temperature: T117 °C to T228 °C (T243 °F to T442 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F) (-40 °C to +50 °C (-40 °F to 131 °F) for body size L)
 - ATEX Certificate: LCIE 08 ATEX 6035X
 - IECEX Certificate: IECEX LCI 04.0015
 - Dust: Zone 21
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T65 °C to T182 °C (T149 °F to T360 °F)
 - Ambient Temperature: -20 °C to +40 °C (-4 °F to +104 °F)
 - CE Declaration of Conformity: 50274
 - ATEX Certificate: LCIE 02 ATEX 6246X



- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK07 with glass diffuser, IK08 with polycarbonate diffuser

EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

Other Certification

- Size M - Certification Type: PjN
 - INMETRO Certificate: BVC 11.0394-X ①

① Inmetro certification available on special request only. Contact your local sales representative for more information

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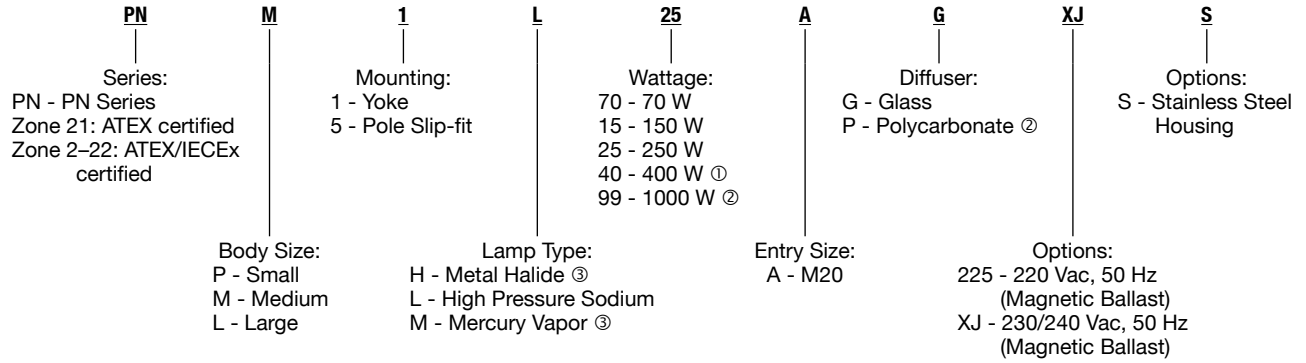
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Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide – Areamaster ATEX PN Series Floodlights



HID/FLOODLIGHT: ATEX/IECEX FLAMEPROOF

① 400 Watt is rated for Zones 21-22 and 1000 Watt is rated for Zones 2-22 when used with large body. Select glass diffuser.

② Polycarbonate diffuser is not rated for use in Zones 2-22.

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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Zone 21 (Dust)

| Operating Position | Dust Surface Temperatures for Ta = +40 °C (+104 °F) | | Time Before Opening in Minutes | |
|-----------------------|---|------------------------|--------------------------------|----|
| | Glass Diffuser | Polycarbonate Diffuser | | |
| Lamp Type and Wattage | | | | |
| Body Size: M | 70 W High Pressure Sodium | +75 °C (+167 °F) | +65 °C (+149 °F) | 50 |
| | 150 W High Pressure Sodium | +101 °C (+214 °F) | +91 °C (+196 °F) | 25 |
| | 250 W High Pressure Sodium | +127 °C (+261 °F) | +117 °C (+243 °F) | 15 |
| | 250 W Metal Halide ① | +123 °C (+253 °F) | +113 °C (+235 °F) | 15 |
| | 250 W Mercury ① | +136 °C (+277 °F) | +131 °C (+268 °F) | 15 |
| Body Size: L | 400 W High Pressure Sodium | +126 °C (+26 °F) | +121 °C (+250 °F) | 30 |
| | 1000 W High Pressure Sodium | +177 °C (+351 °F) | - | 30 |
| | 1000 W Metal Halide ① | +182 °C (+360 °F) | - | 30 |

Zone 2 (Gas)

| Lamp Type and Wattage | T Rating for Ta = +40 °C (+104 °F) | T Rating for Ta = +50 °C (+122 °F) | T Rating for Ta = +55 °C (+131 °F) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|
| 70 W High Pressure Sodium | T4 | T4 | T4 |
| 150 W High Pressure Sodium | T4 | T4 | T4 |
| 150 W Metal Halide ① | T4 | T4 | T4 |
| Body Size: M | 250 W High Pressure Sodium | T3 | T3 — Cable T ° = +82 °C (+180 °F) |
| | 250 W Metal Halide ① | T3 | T3 |
| | 250 W Mercury ① | T3 | T3 — Cable T ° = +81 °C (+178 °F) |
| 400 W High Pressure Sodium | T3 | T3 — Cable T ° = +87 °C (+187 °F) | T2 — Cable T ° = +92 °C (+198 °F) |
| 400 W Metal Halide ① | T2 | T2 — Cable T ° = +84 °C (+183 °F) | T2 — Cable T ° = +89 °C (+192 °F) |
| 400 W Mercury ① | T2 | T2 — Cable T ° = +84 °C (+183 °F) | T2 — Cable T ° = +89 °C (+192 °F) |
| Body Size: L | 1000 W High Pressure Sodium | T3 | - |
| | 1000 W Metal Halide ① | T3 | - |

Zone 22 (Dust)

| Lamp Type and Wattage | T Rating for Ta = +40 °C (+104 °F) | T Rating for Ta = +50 °C (+122 °F) | T Rating for Ta = +55 °C (+131 °F) |
|----------------------------|------------------------------------|--|------------------------------------|
| 70 W High Pressure Sodium | 117 °C (242 °F) | - | - |
| 150 W High Pressure Sodium | 130 °C (266 °F) | - | - |
| 150 W Metal Halide ① | 128 °C (262 °F) | - | - |
| Body Size: M | 250 W High Pressure Sodium | 160 °C (320 °F) | T3 — Cable T ° = +82 °C (+180 °F) |
| | 250 W Metal Halide ① | 175 °C (347 °F) | - |
| | 250 W Mercury ① | 181 °C (358 °F) | T3 — Cable T ° = +81 °C (+178 °F) |
| 400 W High Pressure Sodium | 198 °C (388 °F) | T3 — Cable T ° = +87 °C (+187 °F) | T2 — Cable T ° = +92 °C (+198 °F) |
| 400 W Metal Halide ① | 228 °C (442 °F) | T2 — Cable T ° = +84 °C (+183 °F) | T2 — Cable T ° = +89 °C (+192 °F) |
| 400 W Mercury ① | 227 °C (441 °F) | T2 — Cable T ° = +84 °C (+183 °F) | T2 — Cable T ° = +89 °C (+192 °F) |
| Body Size: L | 1000 W High Pressure Sodium | +187 °C (+369 °F) for Ta = +50 °C (+122 °F) | Cable T ° = +90 °C (+194 °F) |
| | 1000 W Metal Halide ① | +192 °C (+378 °F) for Ta = +50 °C (+122 °F) | Cable T ° = +90 °C (+194 °F) |

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| Lamp Type and Wattage | Weight kg (lb) | Volume dm ³ (in ³) | Permissible lamps (not supplied) | Body Size | Catalog Number ③④ |
|--|-------------------|--|-------------------------------------|-----------|-------------------|
| Standard with Lamp Glass Sealed on Frame | | | | | |
| 70 W HPS | 12.1 (26.7) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1L70AGXJ |
| 150 W HPS | 12.9 (28.4) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1L15AGXJ |
| 250 W HPS | 14.3 (31.5) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1L25AGXJ |
| 400 W HPS | 16.0 (35.3) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1L40AGXJ ① |
| 400 W HPS | – | – | Ovoid/Tubular | Large | PNL1L40AGXJ ① |
| 150 W MH ④ | 12.9 (28.4) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1H15AGXJ |
| 250 W MH ④ | 14.3 (31.5) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1H25AGXJ |
| 400 W MH ④ | 16.0 (35.3) | 62.5 (3814) | Tubular | Medium | PNM1H40AGXJ ① |
| 400 W MH ④ | – | – | Ovoid/Tubular | Large | PNL1H40AGXJ ① |
| 250 W MV ④ | 12.9 (28.4) | 62.5 (3814) | Ovoid | Medium | PNM1M25AGXJ |
| 400 W MV ④ | 13.8 (30.4) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1M40AGXJ ① |
| With External Polycarbonate Weatherproof Protection ② | | | | | |
| 70 W HPS | 13.2 (29.1) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1L70APXJ |
| 150 W HPS | 14.0 (30.9) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1L15APXJ |
| 250 W HPS | 15.4 (34.0) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1L25APXJ |
| 400 W HPS | – | – | Ovoid/Tubular | Large | PNL1L40APXJ ① |
| 150 W MH ④ | 14.0 (30.9) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1H15APXJ |
| 250 W MH ④ | 15.4 (34.0) | 62.5 (3814) | Ovoid/Tubular | Medium | PNM1H25APXJ |
| 400 W MH ④ | – | – | Ovoid/Tubular | Large | PNL1H40APXJ |
| 250 W MV ④ | 14.0 (30.9) | 62.5 (3814) | Ovoid | Medium | PNM1M25APXJ ① |

① 400 Watt is rated for Zones 21-22 and 1000 Watt is rated for Zones 2-22 when used with large body. Select glass diffuser.

② Polycarbonate diffuser is not rated for use in Zones 2-22.

③ For a 220 Vac, 50 Hz, magnetic ballast, replace the letters **XJ** in the 10th and 11th positions with the letters **225**; example: PNP1L70AG225.

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