Champ HID floodlights


Featuring the industry’s broadest range of luminaires for harsh and hazardous environments, Eaton’s Crouse-Hinds can deliver a lighting solution that performs reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.

Why Crouse-Hinds?

• Optimal light output and beam distribution
• Easily accessible ballast assembly
• Restricted breathing standard on all floodlights
• UL marine rated, NEMA Type 4X and IP66
Why Champ HID floods?

**Designed for harsh and hazardous.** Champ HID floodlights are engineered to handle demanding conditions and are available in four styles to tackle all your lighting challenges.

**Champ FMV nR**
The Champ FMV nR offers exceptional indoor and outdoor illumination in industrial areas. Because of its superior corrosion resistance and restricted breathing being standard, the FMV is the ideal choice for diverse industrial applications that include wet and marine environments.

**Features:**
- Full-frame trunnion mounting bracket
- Restricted breathing standard
- 55°C ambient air suitability
- Standard with terminal blocks
- Class I, Division 2/Zone 2
- Removable ballast tray

**Champ FMV1000 nR**
The Champ FMV1000 nR offers restricted breathing and easy to wire terminal blocks as standard components. It is NEMA Type 4X and IP56 watertight and due to its heavy duty vaportight, copper-free aluminum housing and stainless steel hardware, it is exclusively designed for harsh and industrial areas requiring broad area lighting. The Champ FMV1000 nR provides a robust design for optimal use in the most corrosive/marine environments.

**Features:**
- Hazardous location high wattage floodlight for Class I, Division 2/Zone 2
- Restricted breathing standard
- T3 rating in Class I, Zone 2
- 40°C and 55°C ambient air suitability
- Hinged removable door
- Available in 600, 750, 1000 and 1500 watt systems (1500 watt for non-hazardous locations only)

**Champ F2MV Mini**
The F2MV is a compact floodlight that consists of a Corro-free™ epoxy coated copper-free aluminum enclosure with stainless steel external hardware and an impact-resistant glass lens. It is suitable for marine and wet locations and is ideal where space constraints restrict the use of larger floodlights.

**Features:**
- Small, compact size
- Easy mounting installation – only two bolts
- Powerful light distribution for floodlight and task applications
- Rated for use in 65°C ambient air for hazardous location applications

**Champ Voyager nR™**
The Champ Voyager nR offers the industry’s coolest temperature rating and is the only mogul base Class I, Division 2 and Zone 2 stainless steel floodlight with restricted breathing as standard construction. It boasts a wide, powerful beam to deliver more light to your process, and with the standard terminal block and removable ballast component tray, the Champ Voyager is perfect for outdoor, marine, corrosive and high temperature locations.

**Features:**
- Housing, door and external parts are all 316 stainless steel
- Restricted breathing standard with T-ratings of T3 and T4
- Pre-wired with terminal blocks for easy wiring
- Hinged door and removable ballast tray

**Product selector chart:**

<table>
<thead>
<tr>
<th></th>
<th>F2MV Mini</th>
<th>FMV nR</th>
<th>FMV1000 nR</th>
<th>Voyager nR</th>
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EATON’S CROUSE-HINDS Champ HID Floodlights 3
The Champ FMV nR floodlight offers exceptional illumination in industrial areas, both indoors and out. And, it comes standard as a restricted breathing luminaire.

The Champ FMV nR is easily adjusted to aim light where it’s needed and is available in a wide variety of energy saving mogul base HID light sources and wattages.

Key features & benefits:
- AEx nR, Ex nR restricted breathing rating is standard – a hazardous location luminaire without additional accessories or options; restricted breathing offers cooler T-codes for increased hazardous locations suitability
- NEMA 7x6 butterfly beam floodlight pattern – wide, uniform and far-reaching to provide excellent efficiency and more light where you need it
- NEMA Type 4X and IP66 construction is designed for use indoors and outdoors in marine and wet locations – with stainless steel external hardware suitable for salt water and corrosive applications
- Easy wiring – standard terminal block with marked terminals saves time and eliminates wiring errors
- Vaportight sealing cable connector – standard
- Will accommodate existing mounting hardware – SFA6 slipfitter for pole and SWB6 for wall mount
- +40°C and +55°C ambient suitability – addresses high ambient common at industrial facilities
- Low ambient capability to -40°C – perfect for colder climates
- Heavy duty, die cast copper-free aluminum enclosure with epoxy coating and stainless steel hardware – provides a robust design with industrial grade construction and corrosion resistance
- Hinged door frame assembly – has captive cover screws for ease of relamping
- Yoke mount design – standard construction provides the greatest mounting flexibility; can be mounted vertically (wall), horizontally (rooftop or floor) or any angle in between
- 3-axis resonance withstand and UL844 vibration compliant – can stand up to the tough jobs
- Precision formed aluminum reflector – superior beam control, distribution and efficiency
- Multi-tap ballasts – offering a choice of 120, 208, 240, 277V; 220V, 50 Hz; 240V, 50 Hz; multi-tap (120, 277, 347V); and 480V ballasts are also available
- For use with SFA6 slipfitter adapter and SWB6 wall mount bracket accessories – further enhances mounting flexibility

Applications:
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Classified and hazardous locations or where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP66, Type 4X, marine, wet locations and hose down environments

Certifications:
- NEC/CEC (NEC ballast gear and socket):
  - Class I, Division 2, Groups A, B, C, D
  - Class I, Zone 2, AEx nR II
  - Marine locations
  - NEMA Type 4X, IP66
  - Wet locations
- UL/cUL standards:
  - UL844 – Hazardous (Divisions Classified) Locations
  - UL60079-15
  - UL1598 – Luminaires
  - UL1598A – Supplemental Requirements for Luminaires for Installation on Marine Vessels
- IEC standard:
  - 60079-15

Standard materials:
- Fixture housing and door frame assembly – die cast aluminum
- External hardware – stainless steel
- Lens – heat- and impact-resistant tempered glass
- Yoke – aluminum

Standard finishes:
- Enclosure and yoke – Corro-free epoxy powder coat
- Stainless steel – natural

Easy to install & maintain:
- Removable ballast tray
- Pre-wired to terminal blocks
- Substantial room for wiring

Electrical & mechanical ratings:
- Sources/wattages (mogul base lamps):
  - High pressure sodium (HPS) – 150, 250, 400W
  - Metal halide (MH) – 175, 250, 400W
- Voltages:
  - Standard voltage ballasts
    - Multi-tap (120, 208, 240, 277V, 60 Hz)
    - Dual-tap (120, 277V)
    - 480V, 60 Hz
    - Tri-tap (120, 277, 347V, 60 Hz) Canada
  - Optional voltage ballasts
    - 220V or 240V, 50 Hz (for export)
- Hub sizes:
  - Standard – ¾” NPT
  - Optional – 25mm (M25 x 1.5) or 20mm (M20 x 1.5)

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## Temperature ratings:

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*Suitable for use in +65°C ambient without optional fuses.
**Suitable for use in +55°C ambient without optional fuses.

### Weights and dimensions:

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<th>FMVM weight (lbs.)</th>
<th>Accessory</th>
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Figure 1

Figure 2

Figure 3

- 30°, 90°, 120°
- 30°, 90°, 120°
Champ FMV nR – continued

**Part number example**

FMVMY400/MT 76 S828

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<th>Beam spread</th>
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<th>Options</th>
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<td>TIR* Instant restrike and Ballast-Gard™</td>
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<td>S</td>
<td>175W (MH only)</td>
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<td>M25 25mm metric thread conduit opening</td>
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<td>S714 Furnished with lamps (not installed)</td>
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<td>S831 Retention chain</td>
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<tr>
<td></td>
<td></td>
<td>S828 Pulse start metal halide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S886 Enclosure machined with (2) conduit/cable entries</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V2PC20‡ Installed photocell: 120V, 50-60 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V2PC22‡ Installed photocell: 208-240V, 50-60 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V2PC27‡ Installed photocell: 277V, 50-60 Hz</td>
</tr>
</tbody>
</table>

* Instant restrike – enables a hot HPS lamp to immediately restrike after a momentary loss of arc due to voltage fluctuation or power outage.

**Ballast-Gard starter cut-out switch – prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and ignitor life.**

**150W LX HPS only**

‡ Photocell for Division 2 installation only.

### Accessories (ordered separately)

- **SFA6** Slipfitter adapter (mounted to standard yoke, fits 2” pipe/conduit)
- **SWB6** Wall bracket (use with slipfitter adapter SFA6 for easy wall mounting and fine adjusting position)

### Lamp selection (mogul base):

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Watts / type</th>
<th>Bulb</th>
<th>GE</th>
<th>Osram</th>
<th>Philips</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMVSY150</td>
<td>150 HPS</td>
<td>ED23½ BT25</td>
<td>LU150/55</td>
<td>LU150/55</td>
<td>C150S55</td>
</tr>
<tr>
<td>FMVSY250</td>
<td>250 HPS</td>
<td>ED18½ or ET18</td>
<td>LU250</td>
<td>LU250</td>
<td>C250S50</td>
</tr>
<tr>
<td>FMVSY400</td>
<td>400 HPS</td>
<td>ED18 or BT37</td>
<td>LU400</td>
<td>LU400</td>
<td>C400S51</td>
</tr>
<tr>
<td>FMVMY175</td>
<td>175 MH</td>
<td>ED28 or BT28</td>
<td>MVR175/U</td>
<td>M175/U</td>
<td>MH175/U</td>
</tr>
<tr>
<td>FMVMY250</td>
<td>250 MH</td>
<td>ED28 or BT28</td>
<td>MVR250/U</td>
<td>M250/U</td>
<td>MH250/U</td>
</tr>
<tr>
<td>FMVMY400</td>
<td>400 MH</td>
<td>ED37 or BT37</td>
<td>MVR400/U</td>
<td>M400/U</td>
<td>MH400/U</td>
</tr>
</tbody>
</table>
Champ FMV1000 nR

The Champ FMV1000 nR high wattage floodlight is the best in its class with a heavy duty vapor tight housing designed exclusively for harsh industrial areas requiring broad area lighting.

The FMV1000 boasts restricted breathing and easy to wire terminal blocks as standard. It is available in 600, 750 and 1000W high pressure sodium and 1000 and 1500W metal halide.

Applications:
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Classified and hazardous locations or where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP66, Type 4X, marine, wet locations and hose down environments

Key features & benefits:
- AEx nR, Ex nR restricted breathing rating is standard – hazardous location luminaire without additional accessories or options; restricted breathing offers cooler T-numbers for increased hazardous locations suitability
- NEMA 7x6 butterfly beam floodlight pattern – wide, uniform and far-reaching to provide excellent efficiency and more light where you need it
- NEMA Type 4X and IP66 construction is designed for use indoors and outdoors in marine and wet locations – with stainless steel external hardware suitable for salt water and corrosive applications
- Easy wiring – standard terminal block with marked terminals saves time and eliminates wiring errors
- Vaportight sealing cable connector standard
- Standard machining – will accept ¾” NCGB or ¾” Myers™ hub (Myers hub optional); optional metric machining will accept M20 or M25 (must be specified on order)
- Low and high ambient capability to -40°C – perfect for colder climates; +50°C workhorse in hot climates
- Heavy duty extruded copper-free aluminum enclosure with epoxy coating and stainless steel hardware – provides a robust design with industrial grade construction and corrosion resistance
- Precision formed aluminum reflector – superior beam control, distribution and efficiency
- High light output with a low cost of operation – cost-effectiveness in a high wattage floodlight

Certifications:
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, AEx nR II, Group IIC
- Marine and wet locations
- IP66
- NEMA Type 4X

Standard materials:
- Housing – extruded aluminum
- External hardware – stainless steel
- Yoke – 316 stainless steel
- Lens – heat- and impact-resistant tempered glass
- Gasket – neoprene

Standard finishes:
- Aluminum – Corro-free™ epoxy powder coat
- Stainless steel – natural

Easy to install & maintain:
- Removable ballast tray
- Pre-wired to terminal blocks
- Substantial room for wiring

Electrical & mechanical ratings:
Sources/wattages (mogul base lamps):
- High pressure sodium (HPS) – 600, 750, 1000W
- Metal halide (MH) – 1000W; 1500W non-hazardous location rated

Voltages:
Standard voltage ballasts
- Multi-tap (120, 208, 240, 277V, 60 Hz)
- 480V, 60 Hz
- Tri-tap (120, 277, 347V, 60 Hz)

Optional voltage ballasts
- 220V or 240V, 50 Hz (for export)

Hub sizes:
- Standard – ¾” NPT
- Optional – 25mm (M25 x 1.5) or 20mm (M20 x 1.5)
- Dual entry – NPT or metric

Applications:
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Classified and hazardous locations or where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP66, Type 4X, marine, wet locations and hose down environments
## Temperature ratings:

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type</th>
<th>Lamp watts</th>
<th>40°C ambient</th>
<th>50°C ambient</th>
<th>Fixture aiming</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Temperature code</td>
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<tr>
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<td></td>
<td>Class I, Zone 2</td>
<td>Class I, Div. 2</td>
<td>Supply wire °C</td>
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<tr>
<td>FMVS</td>
<td>High pressure sodium</td>
<td>600</td>
<td>T3</td>
<td>T1</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750</td>
<td>T3</td>
<td>T1</td>
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<td>1000</td>
<td>T3</td>
<td>T1</td>
<td>90</td>
</tr>
<tr>
<td>FMVM</td>
<td>Metal halide</td>
<td>1000</td>
<td>T3</td>
<td>T1</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>Pulse start metal halide</td>
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<td>T3</td>
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<td>750</td>
<td>T3</td>
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<td>1000</td>
<td>T3</td>
<td>T1</td>
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<td></td>
<td>1000</td>
<td>T3</td>
<td>T1</td>
<td>-</td>
</tr>
</tbody>
</table>

## Weights and dimensions:

<table>
<thead>
<tr>
<th>Lamp watts</th>
<th>FMVS weight (lbs.)</th>
<th>FMVM weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>78.00</td>
<td></td>
</tr>
<tr>
<td>750</td>
<td>76.00</td>
<td></td>
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<tr>
<td>1000</td>
<td>83.00</td>
<td>76.00</td>
</tr>
<tr>
<td>1500</td>
<td></td>
<td>84.00</td>
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</table>
Champ FMV1000 nR – ordering information

Part number example
FMVSY1000/MT 76 S886

<table>
<thead>
<tr>
<th>Model</th>
<th>Mount</th>
<th>Wattage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMV</td>
<td>S</td>
<td>600</td>
<td>FA</td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td>750</td>
<td>M20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000</td>
<td>M25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1500</td>
<td>S714</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S831</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S828</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S886</td>
</tr>
</tbody>
</table>

- **Lamp type**: M = Metal halide, S = High pressure sodium
- **Wattage**: 600W (HPS only), 750W (HPS only), 1000W, 1500W (MH only)
- **Options**: FA = Factory assembled – lamp installed in lamp holder, M20 = 20mm metric thread conduit opening, M25 = 25mm metric thread conduit opening, S714 = Furnished with lamps (not installed), S831 = Retention chain, S828 = Pulse start metal halide, S886 = Enclosure machined with (2) conduit/cable entries

<table>
<thead>
<tr>
<th>Accessories (ordered separately)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFA6</td>
</tr>
<tr>
<td>SWB6</td>
</tr>
<tr>
<td>D2S20*</td>
</tr>
<tr>
<td>D2S208 277*</td>
</tr>
</tbody>
</table>

* Photocells in DS cover for use with FS/FD box.

Lamp selection (mogul base):

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Watts / type</th>
<th>Bulb</th>
<th>GE</th>
<th>Osram</th>
<th>Philips</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMVSY600</td>
<td>600 HPS</td>
<td>T15</td>
<td>LU600/T</td>
<td>-</td>
<td>C60S106</td>
</tr>
<tr>
<td>FMVSY750</td>
<td>750 HPS</td>
<td>ED37</td>
<td>LU750</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FMVSY1000</td>
<td>1000 HPS</td>
<td>E25</td>
<td>LU1000</td>
<td>-</td>
<td>C100S52/ED37</td>
</tr>
<tr>
<td>FMVMY750</td>
<td>750 MH</td>
<td>ED37</td>
<td>MVR750/VBU/PA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FMVMY1000</td>
<td>1000 MH</td>
<td>BT56</td>
<td>MVR1000/U</td>
<td>-</td>
<td>MH1000/U</td>
</tr>
<tr>
<td>FMVMY1500</td>
<td>1500 MH</td>
<td>BT56</td>
<td>MVR1500/U/SPORTS</td>
<td>-</td>
<td>MH1500/U</td>
</tr>
</tbody>
</table>
The Champ F2MV is a compact floodlight consisting of a Corro-free epoxy coated copper-free aluminum enclosure, with stainless steel external hardware and impact-resistant glass. It is available for use with mogul base HID lamp types and wattages from 50 to 175 watts.

**Applications:**
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Classified and hazardous locations or where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP66, Type 4X, marine, wet locations and hose down environments

**Key features and benefits:**
- Small, compact size – easy to install and maintain
- 40°C and 55°C ambient suitability – addresses high ambient conditions common in industrial facilities
- Low ambient capability to -40°C – perfect for colder climates
- Heavy duty copper-free aluminum enclosure with epoxy coating and stainless steel hardware – provides a robust design with industrial grade construction and corrosion resistance
- Continuous silicone gasketing – ensures wet and marine location integrity
- Stainless steel tether chain and captive cover screws – secure cover to housing ensures ease of maintenance
- Trunnion (yoke) mount design – standard construction provides the greatest mounting flexibility; can be mounted vertically (wall), horizontally (roof or floor) or any angle in between
- Requires only two bolts to mount – simplifies installation
- Heat- and impact-resistant tempered glass lens – provides exceptional stability
- Shock-absorbing mogul base lamp socket – cushions lamp; improves lamp life in harsh environments
- 3-axis resonance withstand and UL844 vibration compliant – stands up to the tough jobs
- Precision formed aluminum reflector – superior beam control, distribution and efficiency
- NEMA 7x6 floodlight pattern with lamp orientation base down – the ideal light distribution for industrial applications
- Multi-tap ballasts – offering a choice of 120, 208, 240 and 277V; 220V, 50 Hz; 240V, 50 Hz; Tri-tap (120, 277 and 347V); and 480V ballasts are also available
- High light output with a low cost of operation – a cost-effective high wattage floodlight
- For use with SFA6 slipfitter adapter and SWB6 wall mount bracket accessories – further enhances mounting flexibility
- Restricted breathing compliance – cooler T-numbers for increased hazardous locations suitability

**Standard materials:**
- Enclosure (housing and lens cover) – copper-free aluminum
- Cover chain and external hardware – stainless steel
- Lens – heat- and impact-resistant glass
- Gaskets – silicone rubber
- Yoke – copper-free aluminum
- Reflector – diffused aluminum lighting sheet

**Standard finishes:**
- Enclosure and yoke – Corro-free epoxy powder coat
- Stainless steel – natural

**Certifications:**
- **NEC/CEC:**
  - Class I, Division 2, Groups A, B, C, D
  - Marine and wet locations
  - NEMA Type 4X
- **IEC/NEC/CEC:**
  - Class I, Zone 2, Group IIC
  - With suffix S826 and S826TB restricted breathing (Ex nR) option
  - Class I, Zone 2
  - Class I, Division 2
- **UL standards:**
  - UL844 – Hazardous (Divisions Classified) Locations
  - UL2279 – Hazardous (Zones Classified) Locations
  - UL1572 – Ordinary and Wet Locations, Marine Outside Type
- **CSA standards:**
  - C22.2 No. 137
  - CAN/CSA-E79 Series
- **IEC standard:**
  - 60079-15

**Electrical & mechanical ratings:**
- **Sources/wattages (mogul base lamps):**
  - High pressure sodium (HPS) – 50, 70, 100, 150W
  - Metal halide (MH) – 70, 100, 175W

**Voltages:**
- **Standard voltage ballasts**
  - Multi-tap (120, 208, 240, 277V, 60 Hz)
  - 480V, 60 Hz
  - Tri-tap (120, 277, 347V, 60 Hz)
- **Optional voltage ballasts**
  - 220V or 240V, 50 Hz (for export)
  - 220V, 60 Hz (for export)

**Hub sizes:**
- Standard – two ¾” NPT
- Optional – two 25mm (M25 x 1.5) or two 20mm (M20 x 1.5)
## Champ F2MV – continued

### Temperature ratings:

<table>
<thead>
<tr>
<th>Series</th>
<th>Lamp type</th>
<th>Lamp Type</th>
<th>40°C ambient</th>
<th>55°C ambient</th>
<th>65°C ambient</th>
<th>Fixture aiming</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Class I, Zone 2*</td>
<td>Class I, Zone 2*</td>
<td>Class I, Zone 2*</td>
<td>Class I, Zone 2*</td>
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<tr>
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<td>Supply wire °C</td>
<td>Supply wire °C</td>
<td>Supply wire °C</td>
<td>Supply wire °C</td>
</tr>
<tr>
<td>F2MVS</td>
<td>High pressure sodium</td>
<td>50</td>
<td>T6</td>
<td>T3C</td>
<td>75</td>
<td>T6</td>
</tr>
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<td></td>
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<td>70</td>
<td>T6</td>
<td>T3A</td>
<td>60</td>
<td>T5</td>
</tr>
<tr>
<td></td>
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<td>T4</td>
<td>T2D</td>
<td>75</td>
<td>T4</td>
</tr>
<tr>
<td></td>
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<td>150**</td>
<td>T4</td>
<td>T2A</td>
<td>75</td>
<td>T4</td>
</tr>
<tr>
<td>F2MVM</td>
<td>Metal halide</td>
<td>70</td>
<td>T6</td>
<td>T3C</td>
<td>75</td>
<td>T5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>T4</td>
<td>T2D</td>
<td>75</td>
<td>T4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>175**</td>
<td>T3</td>
<td>T2A</td>
<td>75</td>
<td>T3</td>
</tr>
</tbody>
</table>

*Restricted breathing explosion protection requires suffix "S826" TB.

**Suitable for use in +65°C ambient without optional fuses.

### Weights and dimensions:

<table>
<thead>
<tr>
<th>Series</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2MVS</td>
<td>26.00</td>
</tr>
<tr>
<td>F2MVM</td>
<td>26.00</td>
</tr>
</tbody>
</table>

---

![Figure 1](image_url)
Champ F2MV – ordering information

Part number example
F2MVSY070/MT V2PC20

| Model | F2MV
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp type</td>
<td>M Metal halide S High pressure sodium</td>
</tr>
<tr>
<td>Entry</td>
<td>BLANK ¼” NPT thread conduit opening 20 20mm metric thread conduit opening 25 25mm metric thread conduit opening</td>
</tr>
<tr>
<td>Accessories (ordered separately)</td>
<td>SFA6 Slipfitter adapter (mounted to standard yoke, fits 2” pipe/conduit) SWB6 Wall bracket (Use with slipfitter adapter “SFA6” for easy wall mounting and fine adjusting position)</td>
</tr>
<tr>
<td>Wattage</td>
<td>050 50W (HPS only) 070 70W 100 100W 150 150W (HPS only) 175 175W (MH only)</td>
</tr>
<tr>
<td>Voltage</td>
<td>DT Dual-tap TT Tri-tap MT Multi-tap 480 480V</td>
</tr>
<tr>
<td>Options</td>
<td>TIR* Instant restrike and Ballast-Gard™ FA Factory assembled with HID lamp installed S658 Fused S714 Furnished with lamps (not installed) S831 Retention chain S828 Pulse start metal halide V2PC20† Installed photocell: 120V, 50-60 Hz V2PC22† Installed photocell: 208-240V, 50-60 Hz V2PC27† Installed photocell: 277V, 50-60 Hz</td>
</tr>
</tbody>
</table>

* Instant restrike – enables a hot HPS lamp to immediately restrike after a momentary loss of arc due to voltage fluctuation or power outage
Ballast-Gard starter cut-out switch – prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and ignitor life
150W LX HPS only
† Photocell for Division 2 installation only.

Lamp selection (mogul base):

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Watts / type</th>
<th>Bulb</th>
<th>GE</th>
<th>Osram</th>
<th>Philips</th>
<th>Venture</th>
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</thead>
<tbody>
<tr>
<td>F2MVSY050</td>
<td>50 HPS</td>
<td>ED23 ½ or ET23 ½</td>
<td>LU50</td>
<td>LU50</td>
<td>C50S68</td>
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<tr>
<td>F2MVSY070</td>
<td>70 HPS</td>
<td>ED23 ½ or ET23 ½</td>
<td>LU70</td>
<td>LU70</td>
<td>C70S62</td>
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<tr>
<td>F2MVSY100</td>
<td>100 HPS</td>
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<td>LU100</td>
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<td>C100S54</td>
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<td>150 HPS</td>
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<td>MH100/U/ED28</td>
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<td>F2MVSY175</td>
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<td>ED28 or BT28</td>
<td>MVR175/C/U</td>
<td>M175/C/U</td>
<td>MH175/C/U</td>
<td>MH175/C/U</td>
</tr>
</tbody>
</table>

EATON’S CROUSE-HINDS Champ HID floodlights
Champ Voyager nR

The Champ Voyager nR stainless steel floodlight offers the industry's coolest temperature ratings – so it can operate below the ignition temperature of vapors and gases in your classified area.

Standard terminal blocks and a removable ballast component tray bring you the best combination of easy wiring and simple maintenance in one rugged package.

Applications:
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Classified and hazardous locations or where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP66, Type 4X, marine, wet locations and hose down environments

Features:
- AEx nR, Ex nR restricted breathing rating is standard – a hazardous location luminaire with excellent T3 and T4 ratings without additional accessories or options
- NEMA 7x6 butterfly beam floodlight pattern – wide, uniform and far-reaching to reduce the number of luminaires you need, providing excellent luminaire efficiency – more light where you need it
- Easy wiring – standard terminal block with marked terminals saves time and eliminates wiring errors
- Removable ballast component tray – for capacitor, igniter and terminal block to simplify maintenance and save money
- Housing, hinges, door frame and mounting yoke are all 316 stainless steel for marine and wet locations – robust construction suitable for salt water and corrosive applications

Certifications:
NEC/CEC (NEC ballast gear and socket):
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, AEx nR II, Group IIC
- NEMA Type 4X
- IP66

IEC/NEC/CEC (IEC ballast gear and socket):
- IEC Zone 2, Ex nR II ATEX

UL standards:
- UL844 – Hazardous (Divisions Classified) Locations
- UL1598 – Luminaires
- UL1598A – Supplemental Requirements for Luminaires for Installation on Marine Vessels

Standard materials:
- Enclosure (housing and lens frame) – 316 stainless steel
- Lens – heat- and impact-resistant tempered glass
- Gaskets – silicone rubber
- Yoke and yoke bracket – 316 stainless steel
- Reflector – formed specular (dimpled glossy surface) aluminum
- Cable gland cord grip and locknut – polyamide 6, neoprene bushing

Standard finish:
- 316 stainless steel – natural

Easy to install & maintain:
- Removable ballast tray
- Pre-wired to terminal blocks
- Substantial room for wiring

Electrical & mechanical ratings:
Sources/wattages (mogul base lamps):
- High pressure sodium (HPS) – 150, 250, 400W
- Metal halide (MH) – 175, 250, 400W

Voltages:
Standard voltage ballasts
- Multi-tap (120, 208, 240, 277V, 60 Hz)
- 480V, 60 Hz
- Tri-tap (120, 277, 347V, 60 Hz)

Optional voltage ballasts
- 220V or 240V, 50 Hz

Hub sizes:
- Standard – ¾” NPT with a ¾” gland sealing connector

Weight and dimensions:

<table>
<thead>
<tr>
<th>Lamp watts</th>
<th>Weight (lbs.)</th>
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<tbody>
<tr>
<td></td>
<td>HPS</td>
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<tr>
<td>150</td>
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<tr>
<td>175</td>
<td>39.00</td>
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<tr>
<td>250</td>
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### Champ Voyager nR – ordering information

**Part number example**

SSFMVSY150 /MT M25

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<th>Y</th>
<th>150</th>
<th>/</th>
<th>MT</th>
<th>M25</th>
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</table>

### Lamp type

- **M**: Metal halide
- **S**: High pressure sodium

### Temperature ratings:

<table>
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<tr>
<th>Series</th>
<th>Lamp type</th>
<th>Lamp watts</th>
<th>40°C ambient</th>
<th>55°C ambient</th>
<th>Fixture aiming</th>
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</thead>
<tbody>
<tr>
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<td>Temperature code</td>
<td>Supply wire °C</td>
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<td>150*</td>
<td>T4</td>
<td>T2B</td>
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<td>400</td>
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<td>325</td>
<td>105</td>
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</table>

* *Suitable for use in +55°C ambient without optional fuses.

### Accessories (ordered separately)

- **SFA6**: Slipfitter adapter (mounted to standard yoke, fits 2" pipe/conduit)
- **SWB6**: Wall bracket (use with slipfitter adapter SFA6 for easy wall mounting and fine adjusting position)
- **SFA6 SS**: Slipfitter adapter – stainless steel (mounted to standard yoke, fits 2" pipe/conduit)
- **SWB6 SS**: Wall bracket – stainless steel (use with slipfitter adapter SFA6 SS for easy wall mounting and fine adjusting position)
- **D2S20***: Photocell: 120V, 50/60 Hz
- **D2S208 277***: Photocell: 208-277, 50/60 Hz

* Photocells in DS cover for use with FS/FD box.

### Options

- **TIR**: Instant restrike and Ballast-Gard
- **FA**: Factory assembled with HID lamp installed
- **M20**: 20mm metric thread conduit entry
- **M25**: 25mm metric thread conduit entry
- **S658**: Fused
- **S714**: Furnished with lamps (not installed)
- **S826**: Pulse start metal halide
- **S886**: Enclosure machine for (2) conduit/cable entries

* Instant restrike – enables a hot HPS lamp to immediately restrike after a momentary loss of arc due to voltage fluctuation or power outage
* Ballast-Gard starter cut-out switch – prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and ignitor life
  150W LX HPS only

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**Figure 1**

**Figure 2**

**EATON’S CROUSE-HINDS** Champ HID floodlights