

Champ FMV1000 nR high wattage floodlights

Cl. I, Div. 2, Groups A, B, C, D
Cl. I, Zone 2, AEx nR II, Group IIC

Marine & Wet Locations
NEMA Type 4X, IP56

6L

The Champ® FMV1000 nR high wattage floodlight is the best in its class with a heavy duty vaportight 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, 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

Features:

- 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 IP56 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 3/4" NCGB or 3/4" 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 and compliances:

NEC/CEC:

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, AEx nR II, Group IIC
- Marine and wet locations
- NEMA Type 4X, IP56

Standard materials:

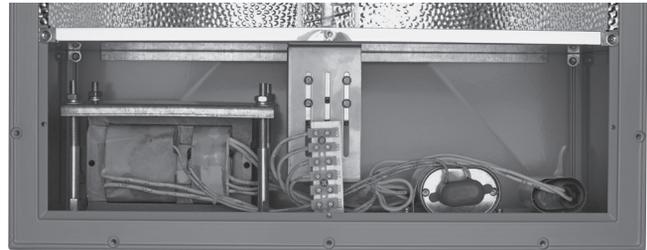
- Housing – extruded aluminum
- External hardware – stainless steel
- Yoke – 316 stainless steel
- Lens – heat- and impact-resistant tempered glass
- Gasket – neoprene

Standard finishes:

- Aluminum – Corro-free epoxy powder coat
- Stainless steel – natural



Restricted breathing standard with this
NEMA Type 4X and IP56 rated floodlight



Easy to install and maintain:

- Removable ballast tray
- Pre-wired to terminal blocks
- Substantial room for wiring

Electrical 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 – 3/4" NPT
- Optional – 25mm (M25 x 1.5) or 20mm (M20 x 1.5)
- Dual entry – NPT or metric

Photometrics:

- Complete photometrics can be found at www.crouse-hinds.com/photometrics

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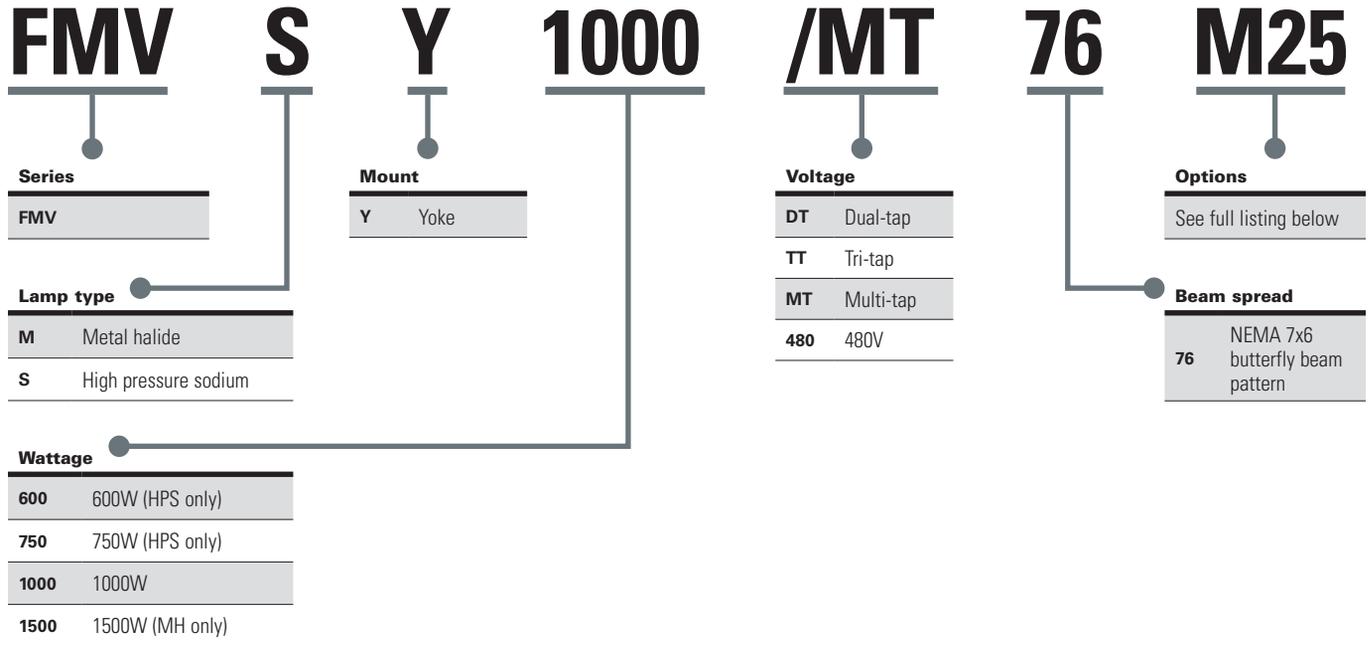
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Ordering information:

Part number example

FMVSY1000/MT 76 M25



Options:

| Description | Suffix |
|-----------------------------------------------------------|-------------|
| • 20mm metric thread for conduit opening | M20 |
| • 25mm metric thread for conduit opening | M25 |
| • Furnished with lamps (not installed)..... | S714 |
| • Pulse start metal halide | S828 |
| • Retention chain..... | S831 |
| • Enclosure machined with two conduit/cable entries | S886 |
| • Factory assembled – lamp installed in lamp holder | FA |

Accessories (ordered separately):

| Description | Cat. # |
|--------------------------------------------------------------------------------------------|-------------------|
| • Slipfitter adapter | SFA6 |
| <i>To be mounted to yoke mount fixture Fits onto 2" pipe/conduit</i> | |
| • Wall bracket..... | SWB6 |
| <i>Use with SFA6 slipfitter adapter for easy wall mounting and increased adjustability</i> | |
| Photocells in DS cover for use with FS/FD box: | |
| • 120V, 50/60 Hz | D2S20 |
| • 208-277V, 50/60 Hz | D2S208 277 |

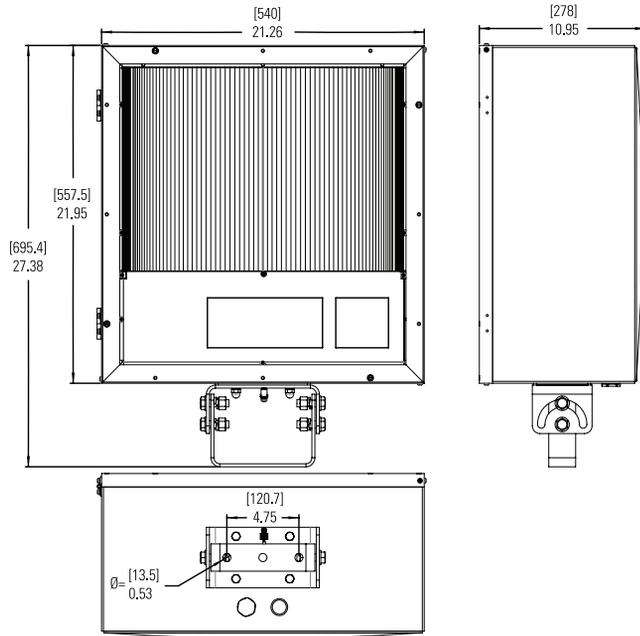
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Dimensions:

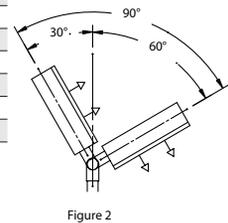
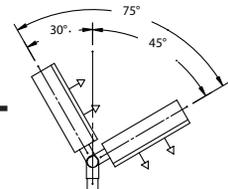


Weights:

| Lamp watts | FMVS weight (lbs.) | FMVM weight (lbs.) |
|------------|--------------------|--------------------|
| 600 | 78.00 | – |
| 750 | 76.00 | – |
| 1000 | 83.00 | 76.00 |
| 1500 | – | 84.00 |

Temperature performance data:

| Series | Lamp type | Lamp watts | 40°C ambient | | | 50°C ambient | | | Fixture aiming | |
|--------|--------------------------|------------|------------------|-----------------|----------------|------------------|-----------------|----------------|----------------|--------|
| | | | Temperature code | | | Temperature code | | | Range | Figure |
| | | | Class I, Zone 2 | Class I, Div. 2 | Supply wire °C | Class I, Zone 2 | Class I, Div. 2 | Supply wire °C | | |
| FMVS | High pressure sodium | 600 | T3 | T1 | 90 | T3 | T1 | 105 | 90° | 2 |
| | | 750 | T3 | T1 | 90 | T3 | T1 | 105 | 90° | 2 |
| | | 1000 | T3 | T1 | 90 | T3 | T1 | 105 | 90° | 2 |
| FMVM | Metal halide | 1000 | T3 | T1 | 90 | T3 | T1 | 105 | 90° | 2 |
| | | 750 | T3 | T1 | 90 | T3 | T1 | 105 | 75° | 1 |
| | | 1000 | T3 | T1 | 90 | T3 | T1 | 105 | 90° | 2 |
| FMVM | Pulse start metal halide | 750 | T3 | T1 | 90 | – | – | – | 90° | 2 |
| | | 1000 | T3 | T1 | 90 | T3 | T1 | 105 | 75° | 1 |
| | | 1000 | T3 | T1 | 90 | – | – | – | 90° | 2 |



Lamp selection (mogul base):

| Fixture | Watts / type | Bulb | GE | Philips |
|-----------|--------------|------|------------------|---------------|
| FMVSY600 | 600 HPS | T15 | LU600/T | C600S106 |
| FMVSY750 | 750 HPS | ED37 | LU750 | – |
| FMVSY1000 | 1000 HPS | E25 | LU1000 | C1000S52/ED37 |
| FMVMY750 | 750 MH | ED37 | MVR750/VBU/PA | – |
| FMVMY1000 | 1000 MH | BT56 | MVR1000/U | MH1000/U |
| FMVMY1500 | 1500 MH | BT56 | MVR1500/U/SPORTS | MH1500/U |