The Champ FMVA LED family

Champ® FMVA LED floodlights are designed to provide full-spectrum, crisp, white light. Seven versions of the FMVA LED are available, from 3,000 to 15,000 lumens, providing ideal solutions for a wide range of harsh and hazardous applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal lumens</th>
<th>Watts</th>
<th>Lumens per watt</th>
<th>Equivalent HID luminaire</th>
<th>Energy savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMVA3L</td>
<td>3,312</td>
<td>26</td>
<td>129</td>
<td>70W</td>
<td>Up to 75% reduction in energy costs and 150,000 hours of continuous operation</td>
</tr>
<tr>
<td>FMVA5L</td>
<td>5,381</td>
<td>40</td>
<td>133</td>
<td>100W</td>
<td></td>
</tr>
<tr>
<td>FMVA7L</td>
<td>7,274</td>
<td>55</td>
<td>132</td>
<td>175W</td>
<td></td>
</tr>
<tr>
<td>FMVA9L</td>
<td>8,479</td>
<td>67</td>
<td>142</td>
<td>250W</td>
<td></td>
</tr>
<tr>
<td>FMVA11L</td>
<td>11,776</td>
<td>82</td>
<td>144</td>
<td>320W</td>
<td></td>
</tr>
<tr>
<td>FMVA13L</td>
<td>13,362</td>
<td>93</td>
<td>143</td>
<td>400W</td>
<td></td>
</tr>
<tr>
<td>FMVA15L</td>
<td>15,183</td>
<td>108</td>
<td>140</td>
<td>500W</td>
<td></td>
</tr>
</tbody>
</table>

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
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP66, Type 4X, marine, wet locations and hose down environments
- Classified and hazardous locations

Features:
- Instant illumination and restrike
- Better visibility with crisp, white light
- Cold temperature operation/no warm-up required
- Minimum T3C temperature rating – safely operate in the most hazardous environments and any non-hazardous location
- Serviceable drivers
- Easy installation – yoke design to mount to SFA6
- Energy-efficient technology – up to 72% energy savings over HID fixtures
- 60,000 hours of rated life at 55°C – eliminates need for frequent lamp replacement
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient: -40°C to 65°C (NEC only; IEC: -40°C to 55°C)
- 5 year fixture warranty

Certifications and compliances:
- DesignLights Consortium® Qualified (pending)
- NEC/CEC:
  - Class I, Division 2, Groups A, B, C, D; Class I; Class II, Groups E, F, G
  - Wet locations, Type 4X, IP66
- UL standards:
  - UL844; UL1598; UL1598A; UL8750
- IEC standards:
- IECEx/ATEX:
  - CE 0399
  - IECEx UL15.0029X
  - DEMKO 15 ATEX 1377X
  - DEMKO 15 ATEX 1383
  - Ex II 3 G Ex ec mb IIC T5 Gc Tamb -40°C - +40°C
  - Ex II 3 G Ex ec mb IIC T5 Gc Tamb -40°C - +40°C
  - Ex ec IIC T5 Gc Tamb -40°C - +40°C
  - Ex ec IIC T4 Gc Tamb -40°C - +55°C
  - Ex II 2 D Ex tb III C T65 Db Tamb -40°C - +40°C
  - Ex II 2 D Ex tb III C T80 Df Tamb -40°C - +55°C
  - Ex tb III C T65 Db Tamb -40°C - +40°C
  - Ex tb III C T80 Df Tamb -40°C - +55°C

Standard materials:
- Lamp housing and adapter – die cast aluminum with Corro-free epoxy powder coat
- Lens – heat- and impact-resistant glass (standard)
- Gaskets – silicone and neoprene
- External hardware – stainless steel

Fixture life:
- Rated life of 60,000 hours at 55°C operating ambient and 24/7 continuous operation for 365 days
- Economic life of 150,000 hours at 25°C ambient

LED system:
- Cool white (5000K, 70 CRI) and warm white (3000K, 80 CRI)
- Custom designed optics – 7x6 standard; 3x3 (optional)

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

Electrical ratings:

<table>
<thead>
<tr>
<th>Model</th>
<th>Input power (watts)</th>
<th>Input amps at 120-277 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMVA3L</td>
<td>25</td>
<td>0.27 - 0.10</td>
</tr>
<tr>
<td>FMVA5L</td>
<td>40</td>
<td>0.41 - 0.16</td>
</tr>
<tr>
<td>FMVA7L</td>
<td>54.56</td>
<td>0.56 - 0.21</td>
</tr>
<tr>
<td>FMVA9L</td>
<td>87.89</td>
<td>0.78 - 0.28</td>
</tr>
<tr>
<td>FMVA11L</td>
<td>81.84</td>
<td>0.84 - 0.30</td>
</tr>
<tr>
<td>FMVA13L</td>
<td>91.95</td>
<td>0.95 - 0.34</td>
</tr>
<tr>
<td>FMVA15L</td>
<td>107.113</td>
<td>1.12 - 0.40</td>
</tr>
</tbody>
</table>

For FMVA9L-15L, PF >0.90 from 100-255 VAC. From 255-277V, it varies +/- 10%. All other lumen levels are above 0.90 PF across full voltage range.

For T3C temperature rating, refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

Tolerance +/- 10% at 120 VAC, 25°C ambient, 7x6 optics.

Input volts: 100-250 VAC at 50/60 Hz. Consult factory for FMVA3L-15L options.

For FMVA3L: PF >0.90 from 100-255 VAC. From 255-277V, it varies +/- 10%. All other lumen levels are above 0.90 PF across full voltage range.

For T4 from -40°C to +40°C when used with 3x3 optic.

Not applicable for FMVA9L-15L UNV34.
Champ FMVA LED floodlights

Versatile design
• Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement

Smaller and lighter
• 25% smaller footprint than previous model
• 10 lbs. (4.5 kg) less weight than previous model

Full-frame yoke
• Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations

High lumen output
• Up to 144 lumens per watt
• Up to 72% energy savings over traditional HID fixtures (compared to 400W MH)

Multiple lens options
• Tempered clear glass lens standard
• Polycarbonate and diffused glass lens options available

Rugged heat sink
• Heat sink designed to perform and provide maximum light levels in high ambient temperatures up to +65°C and as low as -40°C
• Thick walled castings make for a tough, rugged housing that keeps the internal driver and LED temperature down
Champ FMVA LED floodlights

Cl. I, Div. 2, Groups A, B, C, D
Cl. I, Zone 2
Cl. II, Groups E, F, G
UL Listed
IECEx/ATEX
Type 4X; IP66

Ordering information:

Part number example
FMVA7LCY-UNV1-76-M20-S891-BZ

**FMVA 7L CY UNV1 76 M20 S891 BZ**

Light source / intensity
- 3L 3,312 nominal lumens
- 5L 5,381 nominal lumens
- 7L 7,274 nominal lumens
- 9L 9,479 nominal lumens
- 11L 11,776 nominal lumens
- 13L 13,362 nominal lumens
- 15L 15,183 nominal lumens

**Color temperature**
- C 5000K, 70 CRI (cool white)
- W 3000K, 80 CRI (warm white)

**Mounting**
- Y Yoke

**Voltage**
- 100-277 VAC, 50/60 Hz; 127-250 VDC
- 347-480 VAC, 50/60 Hz

**Optical distribution**
- 7x6 floodlight pattern optics
- 3x3 floodlight pattern optics

**Entries**
- BLANK \( \frac{1}{8}\) NPT
- M20 20mm
- M25 25mm

**Paint**
- BLANK Gray
- BZ Bronze
- WH White

**Lens material**
- BLANK Clear glass lens
- S891 Diffused glass lens
- S903 Polycarbonate lens

**Options:**

- Diffused glass lens ............................................................. S891
- Polycarbonate lens ............................................................ S903

**Accessories (ordered separately):**

<table>
<thead>
<tr>
<th>Description</th>
<th>Suffix</th>
<th>Cat. #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bull horn, gray</td>
<td></td>
<td>BLHN</td>
</tr>
<tr>
<td>Bull horn, bronze</td>
<td></td>
<td>BLHN-BZ</td>
</tr>
<tr>
<td>Bull horn, white</td>
<td></td>
<td>BLHN-WH</td>
</tr>
<tr>
<td>Bolt-on visor</td>
<td></td>
<td>DSV2</td>
</tr>
<tr>
<td>Bolt-on wire guard</td>
<td></td>
<td>P62</td>
</tr>
<tr>
<td>316 stainless steel safety cable</td>
<td></td>
<td>SC831</td>
</tr>
<tr>
<td>Floodlight slipfitter</td>
<td></td>
<td>SFA6</td>
</tr>
<tr>
<td>Sliphfitter wall mount adapter</td>
<td></td>
<td>SWB8</td>
</tr>
</tbody>
</table>

**Replacement driver kits (ordered separately)**

<table>
<thead>
<tr>
<th>Kit Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMVA 3-5-7L UNV1 DRIVER KIT</td>
<td>UNV1 Replacement driver kit for 3L, 5L and 7L models</td>
</tr>
<tr>
<td>FMVA 9-11-13L UNV1 DRIVER KIT</td>
<td>UNV1 Replacement driver kit for 9L, 11L and 13L models</td>
</tr>
<tr>
<td>FMVA 15L UNV1 DRIVER KIT</td>
<td>UNV1 Replacement driver kit for 15L model</td>
</tr>
<tr>
<td>FMVA 9L-11L UNV34 DRIVER KIT</td>
<td>UNV34 Replacement driver kit for 9L and 11L models</td>
</tr>
<tr>
<td>FMVA 13L-15L UNV34 DRIVER KIT</td>
<td>UNV34 Replacement driver kit for 13L and 15L models</td>
</tr>
</tbody>
</table>

Notes:
- 1-6x model.
- 2IEC voltage; 100-250V at 50/60 Hz.
- 3Available for FMVA8L-15L only.
Champ FMVA LED floodlights

Temperature performance data:

<table>
<thead>
<tr>
<th>Model</th>
<th>Ambient temp. °C</th>
<th>Class I, Div. 2</th>
<th>Class II, Div. 1</th>
<th>Simultaneous rating</th>
<th>Class I, Div. 2; Div. 1</th>
<th>Class I, Zone 2</th>
<th>ATEX 3G</th>
<th>ATEX 2D</th>
<th>Minimum wire temp. °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMVA3L</td>
<td>40</td>
<td>15</td>
<td>14</td>
<td>14</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>185</td>
<td>105</td>
</tr>
<tr>
<td>FMVA15L</td>
<td>55</td>
<td>14A</td>
<td>13C</td>
<td>13C</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>180</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td>65</td>
<td>14A</td>
<td>13C</td>
<td>13C</td>
<td>14</td>
<td>–</td>
<td>–</td>
<td>105</td>
<td>–</td>
</tr>
</tbody>
</table>

Weights and dimensions:

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMVA3L-FMVA15L</td>
<td>199.7</td>
<td>145.9</td>
<td>160.4</td>
</tr>
<tr>
<td></td>
<td>15.50</td>
<td>393.70</td>
<td>12.00</td>
</tr>
<tr>
<td></td>
<td>304.80</td>
<td>7.00</td>
<td>177.80</td>
</tr>
</tbody>
</table>

Drivers:

<table>
<thead>
<tr>
<th>Option</th>
<th>FMVA3L-FMVA15L</th>
</tr>
</thead>
<tbody>
<tr>
<td>/UNV1</td>
<td>NEC: 100-277 VAC, 50/60 Hz; 127-250 VDC; IEC: 100-240 VAC, 50/60 Hz; 127-250 VDC</td>
</tr>
<tr>
<td>/UNV34</td>
<td>NEC/CEC only: 347-480 VAC, 50/60 Hz</td>
</tr>
</tbody>
</table>

UNV34 driver available for FMVA9L-15L only.