

Champ VMV HID luminaires 50-175W

Cl. I, Div. 2, Groups A, B, C, D
Restricted Breathing Cl. I,
Div. 2 & Zone 2 (with suffix
S826)

Cl. II, Groups E, F, G
Cl. III & Simultaneous
Presence (HPS 50W, 70W)
Marine & Wet Locations
3, 3R, 4, 4X; IP56 to IP66

3L

Applications:

Champ® VMV HID luminaires are used:

- In manufacturing plants, refineries, chemical, petrochemical and other industrial process facilities, waste or sewage treatment facilities, offshore, dockside and harbor installations, and other heavy industrial applications
- In areas in which ignitable concentrations of flammable gases or vapors will be present only due to abnormal, unusual or accidental conditions
- Where combustible dusts are present
- In marine applications where water spray and corrosive atmospheres are considerations
- In elevated ambient temperatures often found in industrial applications
- In installations where moisture, dirt, dust, vibration, corrosion and rough usage are problematic
- Wherever the damaging effects of water, wind, snow, sleet, hot sun or any combination of these elements are found

Features:

- Compact, lightweight design is ideal for medium and low mounting heights
- Cast copper-free aluminum construction (less than 0.4 of 1% copper) and epoxy powder finish provide excellent resistance to corrosion
- Hinged ballast housing for ease of installation and maintenance
- Wide choice of photometric distributions; glass globes, refractors and compact refractors available for all wattage luminaires; plastic refractors (for non-hazardous applications only) for 50-100 watt luminaires
- All luminaires are designed to perform in a 40°C ambient temperature; selected luminaires are suitable for ambient temperatures up to 65°C
- Superior gasketing seals between the mounting module, housing and optical assembly for optimum performance in wet and corrosive environments
- Hubs with an integral conduit stop and bushing to help prevent damage to field wiring during installation
- Low ambient capability to -40°C
- Dome and 30° angle reflectors made of bright white Krydon material provide superior reflectivity, with twist-on feature requiring no tools or additional hardware; will not chip, peel, dent, rust or corrode
- Grounding wire for safety
- High power factor ballasts (min. P.F. 90%) and available in a variety of voltages to meet local area requirements
- Mogul base porcelain lamp socket



Certifications and compliances:

NEC/CEC:

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- HPS 50W, 70W – Class II, Class III & Simultaneous Presence (Class I, Division 2 and Class II)

UL standards:

- UL844 – Hazardous (Classified) Locations
- UL1598 – Luminaires
- UL1598A – Marine Locations

CSA standard:

- C22.2 No. 137

IEC standard:

- 60079-15

Standard materials:

- Ballast housings and mountings – copper-free aluminum (less than 0.4 of 1%)
- Exterior hardware – stainless steel
- Reflectors (dome and angle) – Krydon fiberglass-reinforced polyester
- Globes – heat- and impact-resistant internally fluted glass
- Refractors – glass (50-175W); plastic (50-100W), for non-hazardous applications
- Guards – globe: copper-free aluminum; refractor: stainless steel

Standard finishes:

- Copper-free aluminum – epoxy powder coat
- Krydon – high reflectance white
- Stainless steel – natural

Electrical ratings:

- 120, 208, 240, 277, 347, 480, 600 volts and multi-tap (120, 208, 240 and 277 volts)
- 50-150W HPS; 70-175W MH

Options:

- | Description | Suffix |
|--|---------------|
| • Factory sealed Champs..... | S865 |
| <i>Class I, Division 2 & Zone 2
Provides T3 code without conduit or cable seals
Restricted breathing/non-sparking</i> | |
| • Restricted breathing construction | S826 |
| <i>Class I, Division 2 & Zone 2 suitability
Cooler operating temperatures (T-codes)</i> | |
| • Terminal block | S826TB |
| <i>Furnished with terminal block, crimp terminals
and dedicated voltage ballasts (no MT, DT or TT)</i> | |
| • Fused – to protect ballast and capacitors
against abnormal line conditions | S658A |
| <i>Not available with MT ballast
Not for use in Canada
Not suitable for marine applications</i> | |
| • Quick-Clip – holds weight of housing when
closed; no need to support luminaire while
screwing the housing to the cover.... | S890 |
| • Ballast-Gard™ starter cut-out switch –
prevents starter pulsing when lamp is
cycling or inoperative; prolongs ballast and
ignitor life..... | BG |
| <i>Available for use with 50-150W LX HPS only</i> | |
| • Instant restrike – enables a hot HPS lamp
to immediately restrike after a momentary
loss arc due to voltage fluctuation or
power outage; has no effect on the warm-
up period of cold lamps..... | IR |
| <i>50-150W LX HPS only</i> | |
| • During a “failed lamp” condition, this
feature discontinues the start-up operation
after 1 minute | TIR |
| <i>50-150W LX HPS only</i> | |
| • Quartz auxiliary lighting – comes to full
brightness immediately and remains lit
until the HID lamp attains 60-70% of full
illumination..... | QTZ |
| <i>For non-hazardous locations only
Must use R2, R3 or R5 refractors</i> | |
| • Refractor mount | RM |
| <i>For ballast housing only
Used with R2, R3 and R5 refractors</i> | |
| • Stainless steel insert – top hat with
stainless steel threaded insert to attach
ballast housing..... | S806 |
| • Teflon coating on globe for increased
shatter protection | S808 |
| <i>Available on G24 only
T-codes not affected</i> | |
| • Factory assembled with HID lamps
installed for additional labor savings..... | FA |

Note: BG and IR options cannot be used together. IR and QTZ options cannot be used together. S865 and S826 options cannot be used together.

Accessories:

- See pages 216-217 for complete listing

Photometrics:

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

A When ordering fuses for luminaires, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

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Ordering by components

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VMV luminaires are available in components.

A complete luminaire consists of:

- I. Champ cover (mounting module)
- II. VMV ballast housing – include voltage and required option(s)
- III. Globe, guard, reflector, refractor

I. Champ cover (mounting module):

Type	Conduit size	Cat. #
Pendant mount	$\frac{3}{4}$ "	APM2
	1"	APM3
Flexible pendant mount	$\frac{3}{4}$ "	HPM2
Ceiling mount ^H	$\frac{3}{4}$ "	CM2
	1"	CM3
Wall mount	$\frac{3}{4}$ "	TWM2
	1"	TWM3
Stanchion mount – 25° angle	1½"	JM5
Stanchion mount – straight	1½"	PM5
Quad mount	$\frac{3}{4}$ "	QM25

II. Ballast housings:

Complete catalog number must have the **voltage suffix** and any **options suffixes**.

Lamp type	Lamp watts	Cat. # Globe and compact refractor	Cat. # Large refractor
High pressure sodium	50	VMVS050/DT	VMVS050/DT RM
	70	VMVS070/MT	VMVS070/MT RM
	100	VMVS100/MT	VMVS100/MT RM
	150	VMVS150/MT LX	VMVS150/MT LX RM
Metal halide	70	VMVM070/MT	VMVM070/MT RM
	100	VMVM100/MT	VMVM100/MT RM
	175	VMVM175/MT	VMVM175/MT RM

III. Globes, guards, reflectors, refractors:

Type	Cat. #
Globe	G24
Globe – Teflon coated	G24 S808
Globe guard	P21
Reflector – dome	RD70
Reflector – angle	RA70
Compact refractor – Type I	G241
Compact refractor – Type III	G243
Compact refractor – Type V	G245
Compact refractor guard	P241
Large refractor – Type II	R2
Large refractor – Type III	R3
Large refractor – Type V	R5
Large refractor guard	P23
Large plastic refractor – Type II	PR2
Large plastic refractor – Type III	PR3
Large plastic refractor – Type V	PR5

^HNot available with V2PC photocell.