

Mercmaster™ III HID 50-250 Watt Luminaires

High Pressure Sodium and Pulse Start Metal Halide

Enclosed and Gasketed Fixtures — Hazardous Locations

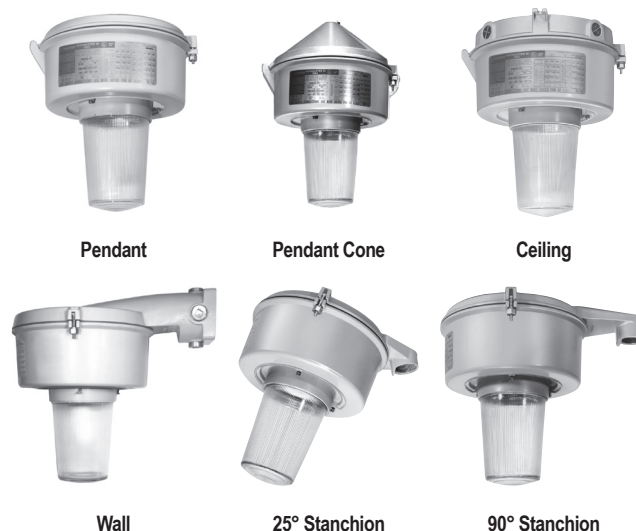
NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zone 2, AEx nA nR IIC (Z2) | Class I, Zone 2, AEx/Ex nR IIC (ZB) | Class II, Division 1 and 2, Groups E, F, G | Class III | Simultaneous Exposure (Class I, Division 2/Class II, Division 1) | Fixtures Outside Type (Salt Water) | Type 4X | IP66

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - Marine and wet locations
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts are present under conditions defined by the National Electrical Code as Class I, Division 2; Class II, Division 1 and 2; and Class III
 - For Zone 2, the method of protection is AEx nA nR – Restricted Breathing/Nonsparking or AEx/Ex nR – Restricted Breathing
 - Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered. 18% cooler operation allows use in ambient temperatures up to +65 °C (+149 °F) depending on fixture component combinations
 - Ambient temperature range:
 - HPS: -40 °C to +65 °C (-40 °F to +149 °F)
 - PSHM: -30 °C to +65 °C (-22 °F to +149 °F)
- Typical applications include:
 - Pulp and paper mills
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Foundries
 - Manufacturing plants
 - Storage areas
 - Marine applications
- Fixtures have NEMA 4X listing.
- Suitability includes listing for use where there may be simultaneous exposure to combustible dusts and flammable gases and vapors. See listing pages for compliance data on specific fixture component combinations.

Features

- Modular design allows scores of fixture component combinations to meet installation and lighting needs. Many most-used combinations are offered prewired and assembled, complete with lamp, packaged in a single carton and ready to install.
- Mogul lamp types and wattages:
 - HPS 50W-150W
 - PSMH 175W-250W
- A choice of heat-resistant prismatic glass refractors (NEMA Type II and III), heat-resistant globes, or prismatic polymeric refractors (NEMA Type II, III, IV and V) for hazardous area fixtures. Colored and clear polycarbonate globes and Tuff-skin® ① coated glass globes are available but are NOT approved for use in classified areas. Fixtures with these globes do NOT comply with code requirements, and should be used in non-classified areas only. Globes and refractors thread directly into ballast housing. Photometrics available upon request – contact your local sales representative.
- Mounting hoods include cone-shaped pendant hood, standard pendant, flexible pendant, ceiling and wall pendants (tapped for 3/4" or 1" NPT), 25° angle stanchion, and 90° (straight) stanchion (both tapped for 1-1/4" or 1-1/2" NPT).
- Cone hood fixtures for pendant mounting shed dust, dirt and combustible fibers. Cone hood inhibits build-up that "insulates" fixture and slows heat transfer, and provides increased surface area for more effective heat dissipation.



- Reflector choice includes standard dome and 30° angle types, both made of Fiberglass reinforced white polyester. Highly resistant to unusually corrosive applications. Reflectors are vented for cooler, dirt-free operation and maintained lumen output. They secure to ballast housing with stainless steel screws threading into stainless steel inserts.
- For high corrosion resistance, fixture housing, mounting hoods and guards are copperfree cast aluminum with baked epoxy finish, electrostatically applied for uniformity. All exposed hardware is stainless steel.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on ballast housing gasket for positive sealing. Swing-away design of captive bolt and nut simplifies servicing.
- Body gaskets and globe gaskets are high-temperature silicone rubber.
- Capacitors are non-PCB type, thermally isolated from ballast.
- Mogul base porcelain socket with nickel-plated contacts has 200 °C (392 °F) welded leads, prewired to the ballast. Assures trouble-free operation in installations where high ambient temperatures are encountered.
- HPS ballasts are High Power Factor (min. P.F. 90%).
- A wide range of voltages available (120 to 600 Volt) and ballast types (Reactor and CWA).
- All Mercmaster III mounting hoods have provision for easy field installation of fuses in fixtures (see fuse kit listings in this catalog section).
- For electrical protection, a ground wire is provided on each Mercmaster to bond hood and ballast housing.
- The AEx nA nR factory sealed Mercmaster III prevents vapors and gases from entering the globe chamber. There are no seals or putty required which will reduce installation time and installation errors.
- The AEx/Ex nR Mercmaster III fixture requires all wiring entries to be sealed.

① Tuff-skin is a registered trademark of Thomas Manufacturing Corp., Parkton, Maryland.

Mercmaster™ III HID 50-250 Watt Luminaires

High Pressure Sodium and Pulse Start Metal Halide

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zone 2, AEx nA nR IIC (Z2) | Class I, Zone 2, AEx/Ex nR IIC (ZB) | Class II, Division 1 and 2, Groups E, F, G | Class III | Simultaneous Exposure (Class I, Division 2/Class II, Division 1) | Fixtures Outside Type (Salt Water | Type 4X | IP66

Standard Materials

- Mounting hoods, ballast bodies and guards: copperfree cast aluminum (less than 4/10 of 1%)
- Exposed hardware: stainless steel; latch assemblies have stainless steel bolt and captive nut; reflectors and guards attach with stainless steel screws threading into stainless steel inserts.
- Reflectors: Fiberglass reinforced white polyester
- Globes and Refractors: heat-resistant prismatic glass
- Polymeric refractor: spun aluminum reflector and a lens made of an engineered thermoplastic

Standard Finishes

- Mounting hoods, ballast bodies, guards: epoxy powder coat finish, electrostatically applied for complete, uniform surface protection
- Reflectors: white polyester finish

Options

- AEx nA nR fixtures are available with a Class I, Zone 2 rating. Add suffix **-Z2**. Only available for certain ballast types.
- AEx/Ex nR fixtures are available with a Class I, Zone 2 rating. Add suffix **-ZB**.
- Fuses can be field-installed on Mercmaster III fixtures. Kits include fuse block, wire connectors and screws for attaching to mounting hood. Fixtures with fuses do not comply with Marine Type Electric Fixtures Outside Type (Salt Water) requirements for marine listing. *For fuse kits, see Electrical Specifications and Fuse Kits page.*
- Optional photocell for all fixtures except cone and ceiling mount provides automatic “on-off” control.

NEC/CEC Certifications and Compliances

- cULus Listed: E10444
- UL Standard: ANSI/UL 844, 1598, 60079-0, 60079-15, 1598A
- CSA Standard: CSA C22.2 No. 250.0, C22.2 No. 137; CAN/CSA E60079-0, E60079-15
- PSMH 250W MT (120/208/240/277, 60 Hz) Fixtures are not UL Listed



Pendant Mount Fixture
with Prismatic Glass Refractor



Straight Stanchion-Mount Fixture with
Prismatic Glass Refractor and Guard



Pendant Cone Fixture with
Prismatic Glass Globe and Guard



Ceiling Mount Fixture
with Prismatic Glass Globe, Guard
and Polyester 30° Angle Reflector



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Illustrated Features



High Temperature Sockets

Mogul base high-temperature porcelain sockets.

Aluminum Inner Reflector

Solid aluminum inner reflector (for refractor ballast housings only) improves photometric efficiency.

Globe Chamber (Zone 2)

Completely sealed from the ballast housing and outside vapors/air (nA nR).



Vented Reflectors

Reflectors are thick, tough fiberglass-reinforced white polyester, vented for cooler operation. Quickly attach with furnished stainless steel screws.

Terminal Blocks (Zone 2)

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24 AWG.

Stainless Steel Inserts

Ballast bodies have stainless steel threaded inserts to receive stainless steel screws for reflectors and guard. Prevents "freezing", allowing guards and reflectors to be easily removed and replaced at any time, without damage to the housing.



Ballast Assembly (Zone 2)

Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).

Mounting Hood and Globe Gaskets

Silicone rubber gasket seals out moisture, dirt and dust. Stays flexible, withstands high temperatures. Closure design assures uniform gasket compression.

Electrical Protection

Ground wire provided to bond mounting hood to ballast housing.



"Safety" High Hinge

Extra-high hinge provides additional protection against accidental ballast housing disengagement during installation or maintenance.

Epoxy Finish

Ballast housing, hoods and guards are copperfree aluminum with epoxy powder coat finish.

Photocell

Available for all fixtures except cone and ceiling mount. Installs through knock-out in mounting hood. Provides continuous ON-OFF dusk-to-dawn control.



Cooler Operating Cone Hood

Larger sloped surface sheds dusts, dirt and combustible fibers providing better heat dissipation.



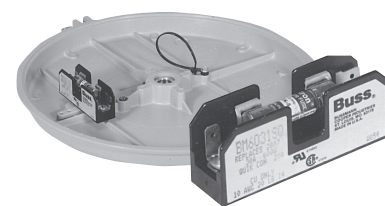
Stainless Steel Latch Assembly

Captive, stainless steel latch assembly bolt and nut closes securely, resists attack of corrosive atmospheres. Swing-away design simplifies servicing.



Heat-Resistant Globes and Refractors

Prismatic glass globes and refractors are heat-resistant. They thread directly into the ballast housing and seal against a high-temperature silicone rubber gasket.



Fuses

Two screws secure fuse kit to mounting boss in any Mercmaster mounting hood. Fuse included.

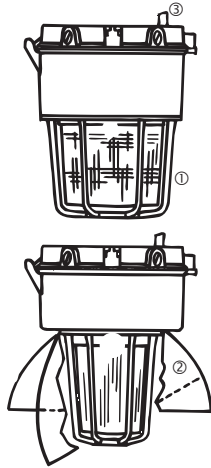
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Accessory Options



① **Guards:** Guards are die-cast copperfree aluminum with baked epoxy finish to match fixtures. Fixture supplied with stainless steel mounting screws which thread into stainless steel inserts on fixture housing to attach guard. To order fixture with guard, add suffix -G to catalog number before adding voltage suffix.

② **Reflectors:** Standard dome and 30° angle polyester reflectors are shown elsewhere in this catalog section.

③ **Photocell and Fuses:** Photocontrols are available.

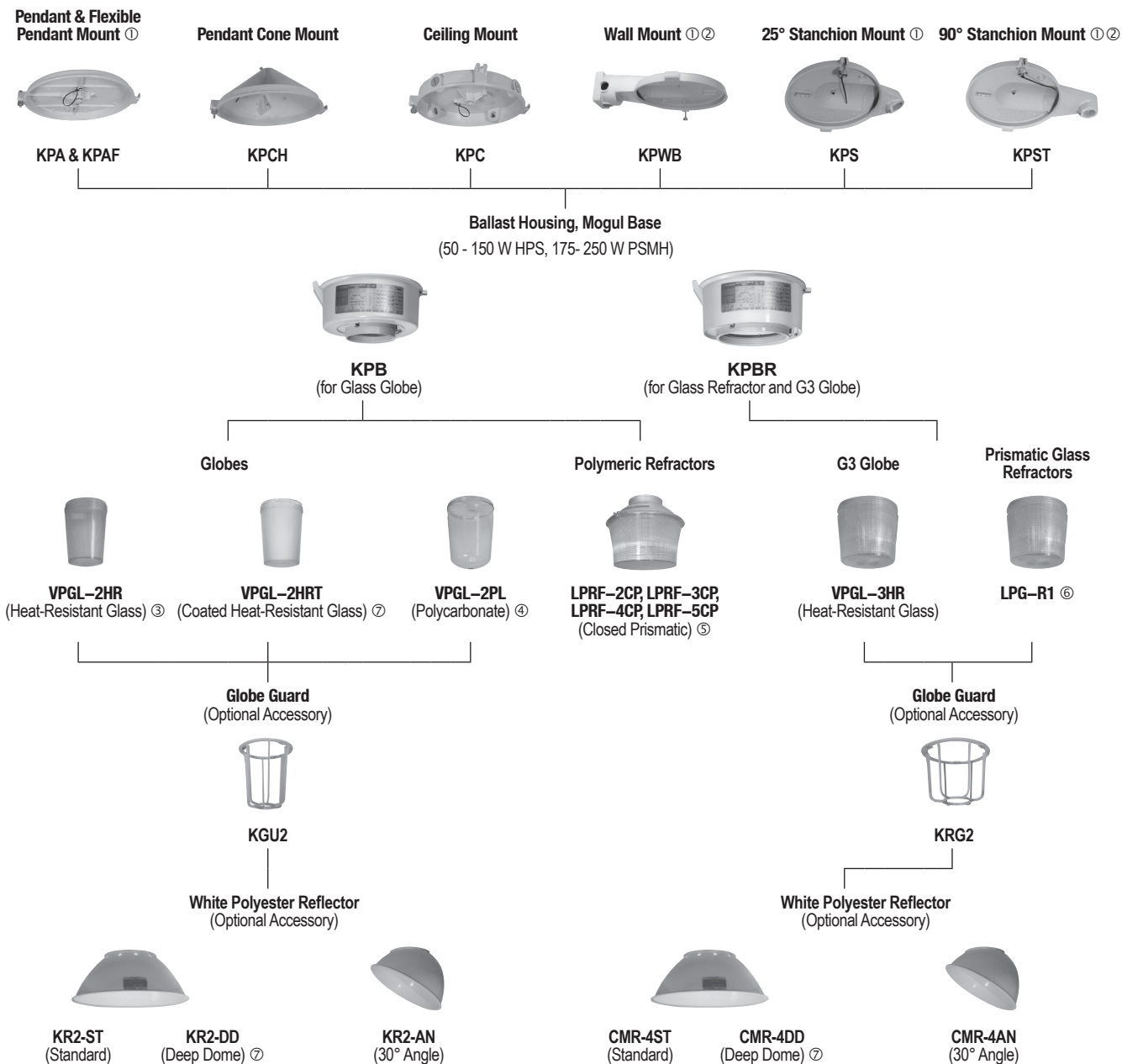
Mercmaster™ III HID 50-250 Watt Luminaires

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Family Tree — Mercmaster™ III 50-250 Watt Luminaires



① Mounting hood with a 120 V or 208-277 V factory installed photocell is available.

② Standard and deep dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods.

③ Available in clear, amber, blue, green and red. Colors not UL Listed.

④ Available in clear, amber, green and red. Not UL Listed.

⑤ Available in NEMA Type II, III, IV and V. Polymeric Refractor suitable for Class II, Groups F and G, NEMA 4X and Marine Type Electric Fixtures Outside Type (Salt Water) only (100 W HPS Max.).

⑥ Available in NEMA Type I.

⑦ Not UL Listed.

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Order Using Catalog Numbering Guide — Mercmaster™ III 50-250 Watt Hazardous Location Luminaires

KP	A	L	70	10	J1	G	MT	C	Z2
Series: KP - Mercmaster III 50-250 Watt		Lamp Type: L - High Pressure Sodium P - Pulse Start Metal Halide		Hub Size: 75 - 3/4" NPT 10 - 1" NPT 125 - 1-1/4" NPT stanchion 150 - 1-1/2" NPT stanchion		Guard Options: G - Guard Blank - No Guard		Options: F - Fuse Kit (Specify Voltage) H1 - Photocontrol 120 V H2 - Photocontrol 208 V H3 - Photocontrol 240 V H4 - Photocontrol 277 V C - Safety Cable Adapted E40 - Export Socket T - Terminal Blocks Optional Fusing ② FN - 120 V FP - 208 V FS - 240 V FT - 277 V FF - 480 V	
	Mounting: A - Pendant (rigid mounting) C - Ceiling CH - Pendant Cone Hood F - Pendant (flexible mounting) ST - 90° Stanchion S - 25° Stanchion WB - Wall		Wattage: 10 - 100 W HPS 15 - 150 W HPS 17 - 175 W PSMH 25 - 250 W PSMH ③ 50 - 50 W HPS (MT - Voltage Only) 70 - 70 W HPS		Optical Assembly: Blank - Glass Globe J1 - NEMA I Glass Refractor G3 - Large Glass Globe		Voltage: ① MT - 120/208/240/277, 60 Hz 48 - 480, 60 Hz 125 - 120, 50 Hz 225 - 220, 50 Hz 226 - 220, 60 Hz 236 - 230, 60 Hz 245 - 240, 50 Hz 246 - 240, 60 Hz GP - 120/220-240, 50 Hz GK - 220/240, 50 Hz	Suffix: Z2 - Zone 2 suffix (required for AEx nA nR rating) ④ ZB - Zone 2 suffix (required for AEx/EX nR rating)	

		Voltage Suffixes									
Lamp Type	Lamp Watts	MT	48	125	225	226	236	245	246	GP	GK
HPS	50	—	—	—	X	X	—	X	—	—	X
HPS	70	X	—	X	—	X	X	X	X	X	—
HPS	100	X	—	—	—	X	X	—	X	—	—
HPS	150	X	X	X	X	X	X	X	X	X	—
PSMH	175	X	X	—	—	—	—	—	—	—	—
PSMH	250	X	—	—	—	—	—	—	—	—	—
Voltages:											
MT - 120/208/240/277 V 60 Hz		225 - 225 V 50 Hz				245 - 240 V 50 Hz					
48 - 480 V 60 Hz		226 - 220 V 60 Hz				246 - 240 V 60 Hz					
125 - 120 V 50 Hz		236 - 230 V 60 Hz				GP - 120/220-240 V 50 Hz				GK - 120/220-240 V 50 Hz	

Reflectors are ordered separately — see Accessories page.

① Voltages shown are limited to specific combinations. Please contact factory for other available voltage options.

② Optional fusing is available for use with MT, 5MT and 48 voltage suffixes ONLY.

③ PSMH 250 W, MT fixtures are not UL Listed.

④ The **-Z2** suffix (AEx nA nR) is available for use with MT, 48 and 246 voltage suffixes ONLY.

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Electrical Specifications

Lamp Watts	Lamp Type	Type of Ballast ①	Line Voltage	Starting Amps	Operating Amps	Total Watts
50 Watt	HPS	HX-HPF	120	0.65	0.61	66
		HX-HPF	208	0.37	0.35	66
		HX-HPF	240	0.32	0.31	66
		HX-HPF	277	0.30	0.26	66
70 Watt	HPS	HX-HPF	120	0.90	0.82	94
		HX-HPF	208	0.50	0.48	94
		HX-HPF	240	0.44	0.41	94
		HX-HPF	277	0.35	0.36	94
		HX-HPF	480	0.21	0.21	94
100 Watt	HPS	HX-HPF	120	1.30	1.15	130
		HX-HPF	208	0.76	0.67	130
		HX-HPF	240	0.66	0.60	130
		HX-HPF	277	0.60	0.52	130
		HX-HPF	480	0.33	0.31	135
150 Watt	HPS ②	HX-HPF	120	2.00	1.70	188
		HX-HPF	208	1.15	0.95	188
		HX-HPF	240	1.00	0.85	188
		HX-HPF	277	0.85	0.72	188
		HX-HPF	480	0.50	0.47	189
175 Watt	PSMH	C.W.A.	120	0.80	1.80	198
		C.W.A.	208	0.50	1.00	198
		C.W.A.	240	0.40	0.90	198
		C.W.A.	277	0.40	0.80	198
		C.W.A.	480	0.15	0.45	196
250 Watt	PSMH	C.W.A.	120	2.00	2.30	278
		C.W.A.	208	1.10	1.40	278
		C.W.A.	240	1.00	1.20	278
		C.W.A.	277	0.80	1.00	278

① C.W.A. – Constant Wattage Autotransformer. HX-HPF – High Reactance High Power Factor Autotransformer.

② 150 W HPS units equipped with ballasts to operate 55 volt lamps only.

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HID Luminaires | Area / Task | Hazardous Location | NEC / CEC

Temperature Codes | Class I, Division 2; Class II, Division 1; Simultaneous exposure to hazardous conditions in both classifications

Lamp Watts	Lamp Type	Supply Wire Min. Temp. °C (°F)	Ambient Temp. °C (°F)	Class I, Division 2				Class II, Division 1 Groups E, F and G ①				Simultaneous Exposure Class I, Division 2 / Class II, Division 1			
				Globe	Globe & Reflector	G3 Globe	8" Refractor	Globe	Globe & Reflector	G3 Globe	8" Refractor	Globe	Globe & Reflector	G3 Globe	8" Refractor
50	HPS	90 °C (194 °F)	40 °C (104 °F)	T3C	T3B	—	T3C	T4A	T4	—	T6	T3A	T3	—	T3C
		90 °C (194 °F)	55 °C (131 °F)	T3A	T3A	—	T3A	T4	T3B	—	T5	T3	T3	—	T3A
		90 °C (194 °F)	65 °C (149 °F)	T3A	T3	—	T3A	T3C	T3C	—	T4A	T2D	T2D	—	T3
70	HPS	90 °C (194 °F)	40 °C (104 °F)	T3B	T3A	—	T3C	T4	T3C	—	T6	T3	T3	—	T3A
		90 °C (194 °F)	55 °C (131 °F)	T3A	T3A	—	T3B	T3C	T3C	—	T5	T2D	T2D	—	T3
		90 °C (194 °F)	65 °C (149 °F)	T3	T3A	—	T3A	T3C	T3B	—	T4A	T2C	T2C	—	T3
100	HPS	90 °C (194 °F)	40 °C (104 °F)	T2D	T2D	T3	T3	—	T3A (EF)	—	—	T2B (EF)	T2B (EF)	—	—
		90 °C (194 °F)	40 °C (104 °F)	—	—	—	—	T3B	—	T4	T4	T2B	—	T2C	T2C
		90 °C (194 °F)	55 °C (131 °F)	T2D	T2D	T2D	T2D	—	—	T4	T4	—	—	T2B	T2B
		90 °C (194 °F)	65 °C (149 °F)	T2D	T2D	T2D	T2D	—	—	—	—	—	—	—	—
150	HPS	90 °C (194 °F)	40 °C (104 °F)	T2B	T2B	—	T2C	—	—	—	T3C	T2	—	—	T2B
		90 °C (194 °F)	40 °C (104 °F)	—	—	—	—	T3 (EF)	—	—	—	—	—	—	—
		90 °C (194 °F)	55 °C (131 °F)	T2B	T2A	—	T2B	—	—	—	—	—	—	—	—
175	PSMH	90 °C (194 °F)	40 °C (104 °F)	T2B	T2B	—	T2B	—	—	—	T3C	—	—	—	T2B
		90 °C (194 °F)	55 °C (131 °F)	T2A	T2A	—	T2B	—	—	—	T3C	—	—	—	T2A
		125 °C (257 °F)	65 °C (149 °F)	T2A	T2	—	T2B	—	—	—	—	—	—	—	—
250	PSMH ②	90 °C (194 °F)	40 °C (104 °F)	T2	T2	—	T2	—	—	—	—	—	—	—	—
		90 °C (194 °F)	55 °C (131 °F)	T2	T2	—	T2	—	—	—	—	—	—	—	—

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

① All Class II T Numbers are E, F, G unless otherwise indicated.

② 250 Watt PSMH fixture is not UL/CSA certified, Appleton Grp, LLC self certifies this product.

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Temperature Codes | Class I, Zone 2; AEx nA nR IIC (Z2); AEx/Ex nR IIC (ZB); IP66; NEMA 4X

Lamp Watts	Lamp Type	Supply Wire Min. Temp. °C (°F)	Ambient Temp. °C (°F)	Class I, Zone 2 AEx nA nR IIC			Class I, Zone 2 AEx/Ex nR IIC		
				Globe	Globe & Reflector	Refractor Only	Globe	Globe & Reflector	Refractor Only
50	HPS	90 °C (194 °F)	40 °C (104 °F)	T4	T3	T5	T4	T3	T5
		90 °C (194 °F)	55 °C (131 °F)	T3	T3	T4	T3	T3	T4
		90 °C (194 °F)	65 °C (149 °F)	T3	T3	T4	T3	T3	T4
70	HPS	90 °C (194 °F)	40 °C (104 °F)	T4	T4	T4	T5	T5	T5
		90 °C (194 °F)	55 °C (131 °F)	T4	T4	T3	T4	T4	T5
		90 °C (194 °F)	65 °C (149 °F)	T3	T3	T3	T4	T4	T4
100	HPS	90 °C (194 °F)	40 °C (104 °F)	T4	T4	T4	T4	T4	T5
		90 °C (194 °F)	55 °C (131 °F)	T4	T3	T3	T4	T4	T4
		90 °C (194 °F)	65 °C (149 °F)	T3	T3	T3	T4	T3	T4
150	HPS	90 °C (194 °F)	40 °C (104 °F)	T3	T3	T3	T4	T4	T4
		90 °C (194 °F)	55 °C (131 °F)	T3	T3	T3	T4	T3	T4
		105 °C (221 °F)	65 °C (149 °F)	T3	T3	T3	T3	T3	T4
175	PSMH	90 °C (194 °F)	40 °C (104 °F)	T3	T3	T4	T3	T3	T4
		90 °C (194 °F)	55 °C (131 °F)	T3	T3	T3	T3	T3	T4
		105 °C (221 °F)	65 °C (149 °F)	T3	T3	T3	T3	T3	T3
250	PSMH ②	90 °C (194 °F)	40 °C (104 °F)	T3	T3	T3	T3	T3	T3
		90 °C (194 °F)	55 °C (131 °F)	T3	T3	T3	T3	T3	T3

“T” Numbers represent the maximum surface temperature for luminaires with AEx nA nR and AEx nR rating:

“T” number is established by separately determining the maximum temperature of the globe surface and ballast compartment. The hotter of the two is taken to determine the “T” number for the overall fixture.

“T” Number	T1	T2	T3	T4	T5	T6
Temp. Range (°C)	301-450	201-300	136-200	101-135	86-100	85
Temp. Range (°F)	547-842	394-572	277-392	214-275	187-212	185

① 250 Watt PSMH fixture is not UL/CSA certified, Appleton Grp, LLC self certifies this product.

Mercmaster™ III HID 50-250 Watt Luminaires

High Pressure Sodium and Pulse Start Metal Halide

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zone 2, AEx nA nR IIC (Z2) | Class I, Zone 2, AEx/Ex nR IIC (ZB) | Class II, Division 1 and 2, Groups E, F, G | Class III | Simultaneous Exposure (Class I, Division 2/Class II, Division 1) | Fixtures Outside Type (Salt Water | Type 4X | IP66

Mounting Hoods			
	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			
	3/4" NPT	1.0 (2.3)	KPA-75
	1" NPT		KPA-100
Pendant — Flexible — One Hub, Rigid or Flexible Mounting			
	3/4" NPT	1.1 (2.5)	KPAF-75
	1" NPT		KPAF-100
Pendant Cone — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.5)	KPCH-75
	1" NPT		KPCH-100
Ceiling — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.4 (3.0)	KPC-75
	1" NPT		KPC-100
Wall — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.8 (4.0)	KPWB-75
	1" NPT		KPWB-100
25° Stanchion — One Hub			
	1-1/4" NPT	1.5 (3.3)	KPS-125
	1-1/2" NPT		KPS-150
90° Stanchion — One Hub			
	1-1/4" NPT	1.7 (3.8)	KPST-125
	1-1/2" NPT		KPST-150

Luminaire Specifications ①

Watts	Globe Housing Ballast Weight kg (lb)		Refractor Housing Ballast Weight kg (lb)		Mounting Hoods	Weight kg (lb)	Refractors, Globes, Guards and Reflectors	Weight kg (lb)
	HPS	PSMH	HPS	PSMH				
50	5.7 (12.6)	—	3.5 (7.72)	—	Pendant	1.0 (2.20)	8" Glass Refractor	2.4 (5.29)
70	6.8 (15.0)	—	7.0 (15.4)	—	Pendant Cone	1.1 (2.43)	Glass Globe	1.7 (3.75)
100	7.3 (16.0)	—	7.5 (16.5)	—	Ceiling	1.4 (3.09)	Refractor Guard	0.5 (1.10)
150	—	—	7.9 (17.4)	—	Wall	1.8 (3.97)	Globe Guard	0.5 (1.10)
175	—	7.8 (17.2)	—	8.1 (17.9)	25° Stanchion	1.5 (3.31)	Standard Dome	1.1 (2.43)
250	—	8.4 (18.5)	—	8.4 (18.5)	90° Stanchion	1.7 (3.75)	Deep Dome ②	2.3 (5.07)
							30° Angle	1.1 (2.43)

① Weights are approximate.

② Fixtures when used with Deep Dome Reflectors are NOT UL Listed.

PCD2 Series Factory Sealed Hazardous Location Photocontrol

For use in Class I, Division 2, Groups A, B, C, D locations

Maintains Class I, Division 2 rating for Mercmaster III – Low Profile, Mercmaster III, and Mercmaster III – 400 Series Luminaires, Mercmaster LED

NEC/CEC: Class I, Division 2, Groups A, B, C, D | NEMA 4X

Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control in Class I, Division 2 locations.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- For use with Mercmaster III – Low Profile, Mercmaster III, and Mercmaster III – 400 Series Luminaires.
- For remote mounting in FS Boxes.

- Available for 120, 208, 240, or 277 volts.
- 50-400 W HID, incandescent or fluorescent, 50/60 Hz.
- 1000 V.A. Voltage/Ampere
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18 AWG stranded leads 152.4 mm (6.00 in) in length.
- Will fit through standard 1/2" knockout.
- Supplied with locknut and gasket.

Features

- Factory sealed design eliminates the need for an explosionproof enclosure.
- Can be easily installed in the field.
- Solid state design for performance and reliability.

Materials

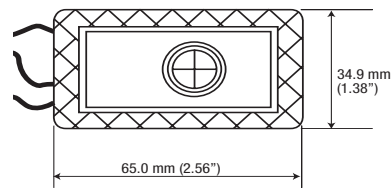
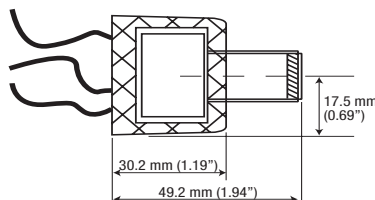
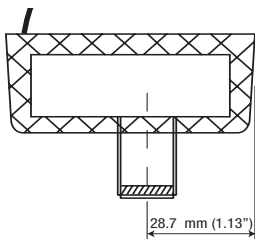
- Encapsulated with epoxy sealing compound
- FS: aluminum

NEC/CEC Certifications and Compliances

- UL Standard: 1604 – Hazardous (Classified) Locations
- cULus Recognized

	Voltage Range	Max VA	Max Current Amps	Suffix Designation / Catalog Number
Factory-Installed Photocontrol - Not for ceiling or pendant cone.				
<i>Add to fixture catalog after voltage; i.e.: KPWBL1075MTH1.</i>				
 Mercmaster III wall mounting hood with photocontrol installed shown	120 V, 50/60 Hz	1000	—	H1
	208 V, 50/60 Hz	1000	—	H2
	240 V, 50/60 Hz	1000	—	H3
	277 V, 50/60 Hz	1000	—	H4
Photocontrol for Field Installation				
	120 V, 50/60 Hz	1000	8.3 Amp	PC120D2
	208 V, 50/60 Hz	1000	4.8 Amp	PC247D2
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	
Photocontrol in FS Cover for Use with FS/FD Box				
<i>Photocontrol assembly supplied with two stainless steel screws and one neoprene gasket.</i>				
<i>For additional neoprene gaskets, order catalog numbers FS-GKR-1N.</i>				
	120 V, 50/60 Hz	1000	8.3 Amp	FSKA-PC120D2
	208, 50/60 Hz	1000	4.8 Amp	FSKA-PC247D2
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	

Dimensions in Millimeters (Inches)



Mercmaster™ III HID 50-250 Watt Luminaires

High Pressure Sodium and Pulse Start Metal Halide

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zone 2, AEx nA nR IIC (Z2) | Class I, Zone 2, AEx/Ex nR IIC (ZB) | Class II, Division 1 and 2, Groups E, F, G | Class III | Simultaneous Exposure (Class I, Division 2/Class II, Division 1) | Fixtures Outside Type (Salt Water) | Type 4X | IP66

Dimensions in Millimeters (Inches)

