

# Mercmaster™ III Emergency Battery Pack

## Enclosed and Gasketed. For Hazardous and Wet Locations

Class I, Division 2, Group A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Simultaneous Exposure (Class I, Division 2,  
 Class II, Division 1)  
 Class III

Wet Locations  
 NEMA 4X

### Applications

- Auxiliary (emergency) lighting should be used to provide a lighted means of egress for personnel in walkways, catwalks, stairs, doorways, tunnels, ramps and aisles.
- Auxiliary (emergency) lighting should be used to provide “instant on” illumination during power failures.
- Enclosed and gasketed fixtures are suitable for normal and emergency use in wet locations and in a wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts are present under conditions defined by NEC Class I, Division 2; Class II, Division 1 and 2; and Class III.
- Suitability includes listing for normal and emergency use where there may be simultaneous exposure to combustible dusts and flammable gases and vapors.
- Fixtures are also well suited for normal and emergency use in non-hazardous areas where severe weather conditions, excessive moisture, dirt, dust or corrosive atmospheres are encountered.
- Typical applications include pulp and paper mills, processing plants, chemical plants, oil refineries, foundries, manufacturing plants and storage areas.

### Features

- Modular design allows scores of fixture component combinations to meet installation and lighting needs.
- Choice of optical assemblies: (1) prismatic globe; (2) enclosed reflector with sealed lens; and (3) Type V or Type II closed prismatic refractor, with or without guard.
- Fluorescent light source reduces energy costs.
- Fluorescent lamp life of 10,000 hours reduces relamping costs compared to incandescent.
- Mounting hoods include cone-shaped pendant, standard pendant, ceiling and wall (tapped for 3/4” or 1” NPT), 25° angle stanchion and 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. Inhibits build-up that “insulates” fixture and slows heat transfer. Also 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 diecast copperfree (4/10 of 1% max.) 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.
- All Mercmaster III mounting hoods have provision for easy field installation of fuses in fixtures (see fuse kit listing in this catalog section).



Prismatic Glass Globe

12” Glass Refractor

Enclosed Reflector

- “Instant on” nature of the fluorescent light source prevents the possibility of a complete blackout due to power failure.
- Fixture (26 W or 52 W) is available for emergency operation (one battery pack provides illumination only during power outage).
- Fixture (26 W or 52 W) is available for continuous operation (one AC ballast permits illumination when AC power is on and one battery pack permits illumination when AC power is interrupted).
- Fixture (26 W, 52 W, 64 W or 84 W) is available for semi-continuous operation (one AC ballast permits illumination when power is on and one battery pack permits one lamp illumination when AC power is interrupted).
- For electrical protection, a ground wire is provided on each Mercmaster to bond hood and ballast housing.
- Minimum operating temperature: 0 °C/32 °F.
- Maximum operating temperature: 40 °C/104 °F.

### Battery Pack Information

- Sealed, maintenance-free, high-temperature nickel-cadmium.
- Solid state chargers sealed within the ballast case.
- 10 year life expectancy.
- Wiring instructions for “Push-To-Test” button are supplied with fixture.
- Remote “Push-To-Test” switch is available to verify emergency operation (order separately).
- Red indicator light is provided with each battery pack to indicate when the battery is charging.

### Standard Materials







- Mounting hoods, ballast bodies and guard: diecast copper-free 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
- Globe: heat- and impact-resistant internally fluted glass
- Refractors: prismatic glass
- Enclosed reflector: etched aluminum with sealed, tempered heat- and impact-resistant lens
- Guards: stainless steel
- Breather: stainless steel

# Mercmaster™ III Emergency Battery Pack Accessories

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Lighting

LIGHTING: ENCLOSED AND GASKETED – EMERGENCY

Item	Description	Catalog Number																				
	<b>Three-Way Exit Sign</b> Epoxy enameled steel — 10" high red lettering Mounts to fixture units in place of guard	<b>EXR400</b>																				
	<b>Replacement Optic Gaskets</b> Silicone Rubber Globe, Refractor and Enclosed Refractor Gasket	<b>KRF-GK</b>																				
	<b>Replacement Lamp</b> <table border="1"> <thead> <tr> <th>Lamp Type</th> <th>Lamp Base</th> <th>Wattage</th> <th>Catalog Number</th> </tr> </thead> <tbody> <tr> <td>PL-C</td> <td>G24Q-1</td> <td>13</td> <td><b>PLC134</b></td> </tr> <tr> <td>PL-T</td> <td>G24q-4</td> <td>26</td> <td><b>PLT26</b></td> </tr> <tr> <td>PL-T</td> <td>G24q-4</td> <td>32</td> <td><b>PLT32</b></td> </tr> <tr> <td>PL-T</td> <td>G24q-4</td> <td>42</td> <td><b>PLT42</b></td> </tr> </tbody> </table>	Lamp Type	Lamp Base	Wattage	Catalog Number	PL-C	G24Q-1	13	<b>PLC134</b>	PL-T	G24q-4	26	<b>PLT26</b>	PL-T	G24q-4	32	<b>PLT32</b>	PL-T	G24q-4	42	<b>PLT42</b>	
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	<b>Replacement Socket</b> For 26 W (2 x 13 W) PLC Lamps For 26 W, 32 W and 42 W PLT Lamps listed above	<b>PLC13RS</b> <b>PLT32RS</b>																				
	<b>Retrofit Pendant Mounting Adapter</b> Permits use of Mercmaster III pendant hood with 3/4" hub on existing V-51 mounting hood.	<b>LPAD-1</b>																				
	<b>Fuse Kit</b> 2-amp time delay fuse	<b>F2</b>																				