

EPO-100A-PS

Class 2, Div. I, Explosion Proof Receptacle - 100 Amp Rated

Product ID: 48746

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: EPO-100A-PS

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPO-100A-PS Explosion Proof Receptacle

Dimensions: 15.38"-H 9.06"-W 14.14 "-D

Configuration: 4 Pole 3 Wire

Grounding: Shell and Extra Wire

Conduit Openings: 2- 2" Diameter Top and Bottom

Service: Standard or Reverse ***REVERSE SERVICE NULLIFIES EXPLOSION PROOF AND HAZARDOUS LOCATION RATINGS**

Mating Plugs: ****[EPP-100A](#)****

Circuit Breaking: Non-Fused Motor Circuit Switch

Unit Materials: Copper Free Aluminum (4/10 of 1% max.)

Finish: Epoxy Powder Coat

Receptacle Current Rating: 600 Vac Ma. 250 Vdc Max @100 Amps

Max Horsepower Ratings: 10@ 120VAC, 30@ 240VAC, 60@ 480VAC 75@ 600VAC

Certifications - Compliance

Class 2, Division 1&2 Groups F, G

NEMA 3, 3R, 7CD, 9FG

UL Std: 1010 (UL 1203), 894, 1682, 1686

CSA Std: C22.2 No. 25, C22.2 No. 30, C22.2 No. 159

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

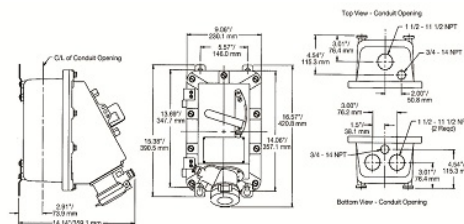
E-mail: sales@larsonelectronics.com

The Larson Electronics EPO-100A Explosion Proof Receptacle with Disconnect Switch provides a durable and secure power connection for portable or stationary electrical devices and equipment in locations where equipment is exposed to flammable chemicals, vapors and dusts. *IF REVERSE SERVICE OPTION IS CHOSEN, EXPLOSION****

PROOF AND HAZARDOUS LOCATION RATINGS ARE NULLIFIED*

This 100 amp rated explosion proof receptacle with interlocking disconnect is ideal for operators seeking a high quality, Class 2 Division 1 rated power receptacle suitable for use in industrial and manufacturing applications. This unit's receptacle and housing is constructed of copper free aluminum and is finished in a durable epoxy powder coating. The large sized housing allows plenty of room for wiring and provides space for 2 tapped NPT conduit openings at the top and bottom of the unit. The receptacle contacts are deep recessed to avoid accidental contact and cannot be energized by an ordinary plug to preserve explosion proof protection in hazardous environments. Ordinary location plugs will NOT work with this explosion proof receptacle.

The interlocked safety switch included with this unit allows safe connect and disconnect within the hazardous area. To operate the unit, simply insert the plug and switch the unit to the ON position. To disconnect, simply turn the switch to OFF and remove the plug. A spring loaded door seals the receptacle when the plug is removed to prevent the entrance of water or dust into the receptacle.



EPO-100A Dimensions- [Click to Enlarge](#)

The EPO-100A power receptacle is constructed of non sparking aluminum and finished with an epoxy powder coating for durability and added corrosion resistance. The internal receptacle plug contacts are constructed of brass with beryllium copper wire springs and are designed to maintain constant pressure along their entire length for superior connectivity. The plug receptacle is deeply recessed to prevent accidental contacts and designed for locking plug insertion to ensure positive sealing and secure connections.

A neoprene seal fitted inside the connector receptacle seals against the plug when inserted to provide positive sealing against water ingress. A spring loaded receptacle door provides an automatic weather-tight seal when the plug is removed. This 3 wire 4 pole unit has a shell and extra wire ground design and integral interlocking non-fused motor circuit switch to provide safe connect and disconnect of plugs in hazardous locations. 2 inch threaded NPT conduit openings and a large housing body allow ample room for installation and wire connections.

In standard installations within the hazardous location area, threaded rigid pipe is brought to the receptacle and the unit is affixed to a secure mounting surface. This receptacle is a mate for the Larson Electronics [EPP-100A](#) explosion proof plug and is suitable for use with Larson Electronics explosion proof lights and equipment as well as any other equipment that operates within this unit's specified load range.

Circuit protection: This unit's receptacle is designed to safely contain any arcs between the

internal contacts that may be created within the receptacle housing. This receptacle is a 3 wire 4 pole design with shell and extra pole grounding. The included interlocking disconnect switch provides circuit breaking for safe connect and disconnect and is rated 600 Vac Ma. 250 Vdc Max @100 Amps.

Inter-Compatibility: These units are cross compatible with Crouse Hind™ Arktite APJ10487 plugs and Hubbell-Killark VP10487 Versamate® plugs. Due to possible manufacturer changes we cannot guarantee interchangeability although we have made every effort to ensure cross compatibility correctness.

Suggested Applications: Areas Where Ignitable Vapors, Gases or Dusts May Be Present; Manufacturing, Industrial, Commercial, Docks, Shipyards, Shipping Ports and other similar ship to shore applications as well as any application requiring a hazardous area suitable and highly durable source of secure power connection.

Features

1. Specially designed receptacle contains arcs within the unit.
2. Spring loaded door seals receptacle when not in use.
3. Brass contacts provide constant pressure and superior conductivity.
4. Will not be energized by non explosion proof plugs.
5. Neoprene seal compressed by plug prevents water ingress into receptacle when in use.
6. Rated to handle loads of 600 Vac Ma. 250 Vdc Max @100 Amps.
7. Receptacle epoxy powder finish for durability.
8. 3 wire 4 pole with shell and extra wire grounding.
9. Integral interlocking non-fused motor circuit switch.



Frequently Asked Questions (FAQ)

There are no Faqs

EPO-100A-PS

Product ID: 48746

Export Control Classification Number (ECCN): EAR99

Options:

EPO-100A-PS-Service

Example: EPO-100A-PS-S

Service	
STANDARD	-S
REVERSE	-R



Links (Click on the below items to view):

- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
- **Shipping Time Map**(<https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf>)