E-House Integrated Power Distribution Solutions

Custom-Engineered Electrical Power Distribution Houses for Mining, Industrial, Commercial and Utility Applications
Federal Pacific E-Houses Are Custom-Engineered, Designed, Built And Fully Tested As A Complete Unit For “Connect And Go” Operation

Federal Pacific E-Houses are custom-designed electrical buildings used anywhere reliable, flexible and even portable power supply solutions are required.

Designed, manufactured, tested and delivered as a complete self-contained unit, Federal Pacific E-Houses can be used for data center, alternative energy, mining, oil, gas, petro-chemical, industrial and commercial applications or anywhere a “connect and go” power supply solution is needed.

Federal Pacific E-Houses can often replace expensive and time-consuming site-built substations with the flexibility to drop the E-House into an existing location with minimal disruption or interference with other infrastructure or continuing activities around the E-House. Permitting and project scheduling is often much easier than with site-built substations and adverse weather conditions affecting the construction and installation of the house are minimized.

Federal Pacific E-Houses are available in pad-mount, skid, wheel or trailer-mounted configurations. The portability of Federal Pacific E-Houses makes them easier, faster and less expensive to relocate, upgrade or adapt to a different power supply situation when necessary.

Federal Pacific E-Houses can be used as motor control centers equipped with variable frequency drives or across-the-line full voltage starters, vacuum circuit breaker switch houses, grid-tie houses and temporary power supplies.
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- Custom-Engineered For Your Application
- VFD Drives Or Across-The-Line Full-Voltage Starters - Federal Pacific Or Any Manufacturer Or Application
- PLC Controls Installed And Programmed By Federal Pacific Or By The Customer
- HVAC Engineered To Specific Size And Heat/Cooling Loads
- Any Manufacturer’s Disconnects
- Bolted Or Welded Construction
- Stainless Steel, Aluminum, Galvanized or Painted Enclosures
- Sled, Mobile Or Pad-Mounted Configurations
- Federal Pacific Ground Fault Monitors Integrated With Low Voltage Output Protection
- Mine-Duty Transformers
- Options Include:
  - LED or Florescent Lighting
  - Vacuum Circuit Breakers With Relay Protection
  - Arc Flash Detection
  - Fire Suppression Systems
  - Ground Check Protection
  - Conduit Fittings, Glands or Couplers For Input/Output Circuits
  - Welder/Auxillary Receptacles
  - Ground Fault Output Circuits
  - Insulated Enclosures
  - External Control Power Plug Or Receptacle For Troubleshooting

Energy-Efficient Federal Pacific Mine-Duty Transformers (Above) Are Designed And Built For The Demanding Requirements Of Mining, Tunneling And Dredging Applications

Input And Output Options (Left) Include Conduit Fittings, Glands Or Couplers. External Disconnects With Low Voltage Protection Allow Visible Disconnection Of Individual Circuits Without Having To Enter The E-House
Electro-Mechanical Corporation Overview

Federal Pacific is a division of Electro-Mechanical Corporation, a privately held, American-owned company founded in 1958. It is headquartered in Bristol, Virginia (USA) and for more than 60 years has manufactured a wide variety of products used in the generation, transmission, distribution and control of electricity. These products, along with various electrical equipment repair and maintenance services, are used by a diverse mix of Energy (coal, oil and gas), Electric Utility and Industrial customers worldwide.

Electro-Mechanical Corporation has earned a “customer oriented” reputation by keeping its focus on providing the best value to its customers through quality products and services. With six manufacturing companies and two repair and service companies, Electro-Mechanical Corporation has over 650,000 square feet of modern manufacturing facilities, located in Virginia and Mexico.

The Electro-Mechanical Corporation consists of:

**Federal Pacific** - Dry-type transformers from .050 KVA through 10,000 KVA single and three phase, up to 25 kV, 110 kV BIL with UL® approval through 15 kV; Vacuum pressure impregnation and vacuum pressure encapsulation. Medium voltage switchgear including air-insulated live-front, dead-front, SCADA-controlled, automatic transfer, primary metering and wall-mounted pad-mounted and metal-enclosed switchgear. ISO9001:2015 Registered.

**Line Power Manufacturing Corporation** - Custom engineered electrical distribution and control apparatus including low and medium voltage metal-enclosed switchgear, power control centers, motor controls, and substations. Electrical power distribution systems and components used in mining. ISO 9001:2015 Registered.

**MAFESA** - Electro-Mechanical Corporation’s manufacturing facility in Mexico for stock low-voltage transformers.

**Engineered Solutions** - The Engineered Solutions Group specializes in the innovative design and creation of custom medium voltage switchgear for Data Center, Solar Energy and other alternative energy, mission-critical projects worldwide.

**Machinery Components Division** - Manufactures prototype and machined component products.


**Line Power Parts & Rebuild** - Complete electrical equipment remanufacturing and onsite electrical equipment service. The parts service department provides replacement components manufactured by Electrical Group companies as well as commonly used OEM parts.

Federal Pacific

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601 Old Airport Road • Bristol, VA 24201
(276) 669-4084 • www.federalpacific.com