The largest independent full-line manufacturers of electrical distribution and control systems in North America

IEM Delivers Advanced Electrical Distribution Products and Systems

Data Centers
Healthcare
Oil & Gas
Telecommunications
Marine
Industrial Manufacturing
Government
Waste Water Treatment
Alternative Energy
Education

Corporate Headquarters
Industrial Electric Mfg™
48265 Warne Savings Blvd
Frederick, GA 30239
ph: +1.770.256.1600
www.iemfg.com

Monroe
Industrial Electric Mfg™
201 – 7255 S 56th Crescent
Lansing, HI 63917
ph: +1.774.272.5601
www.iemfg.com

Jacksonville
IEM Power Systems™
1902 Central Parkway
Jacksonville, FL 32224
ph: +1.904.395.4444
www.iemps.com

Belgium
IEM Power Systems™
Court Lenne, 16
B-4651 Bastogne (Belgium)
ph: +32.87.35.20.26
www.iemps.com

ISO 9001 Certified

Based in the heart of Silicon Valley, IEM has been solving power distribution challenges for Hewlett-Packard, Apple, and dozens of high tech pioneers since they were start-ups. These companies realized that IEM products were superior to any the multi-nationals could offer, and that a faster, more flexible manufacturing system could provide them with the electrical equipment they needed in time to meet their demanding power requirements.

IEM has since expanded beyond North America to deliver advanced electrical power systems for critical applications world-wide. IEM started IEM Power Systems in 2013 to provide the most reliable and efficient continuous power systems in the world.

From system conception to site installation and commissioning, count on the invaluable experience, integrity, and flexibility of IEM to help with your power distribution and system needs.

For over 60 years, IEM has delivered innovative electrical solutions to meet the demanding needs of today’s growing power markets.
VESTA-AR Medium Voltage Metal-Clad Arc-Resistant Switchgear

Vesta-AR medium voltage metal-clad, arc-resistant switchgear is designed to meet the needs of customers who demand the highest quality power distribution assembly with the smallest footprint in the industry.
IEM’s Innovative VESTA-AR Design Delivers A Significantly Reduced On-site Footprint

Front Accessible, Arc-Resistant Metal-Clad Switchgear

The result of IEM’s innovative design and rigorous testing is a new class of MV Arc-Resistant Metal-Clad Switchgear.

Vesta’s plenum design redirects dangerous arc flash energy away from operating personnel, front-facing current transformers simplify maintenance, and magnetically actuated breakers operate up to 100K times, greatly reducing the need for service. In all, over a dozen key features were built into this revolutionary new switchgear.

- Rated voltage: 5 - 15kV; 95kV BIL
- Ampacity: 600A - 2000A; 25, 31.5, 40 & 50kA
- Dimensions 600A/1200A; 25/31kA: 24" x 96" x 60"
- Dimensions 1200A; 40/50kA: 30" x 96" x 72"
- Dimensions 2000A; 25/31.5/40/50kA: 30" x 96" x 72"
- Magnetically actuated breaker – up to 100,000 operations
- Front accessibility; Rear access required for maintenance
- Draw out breaker, PT & CPT
- Shortest breaker pole spacing between phases
- Infrared viewing ports — allow access to thermal monitoring
- Front and rear viewing windows
- Epoxy insulated bus bar configuration optimized for maximum heat dissipation
- Plenum design incorporated into structural configuration – No additional height requirement
- UL & cUL listed; Type 2A and 2B in accordance with ANSI/IEEE standards 37.20.7
Panelboards

A wide variety of components can be integrated into IEM panelboards including surge suppression equipment, custom metering, receptacles, and more.

- Voltage: Up to 600Vac, 250Vdc maximum
- Ampacity: 100A to 600A
- 65kA at 480V
- UL or CSA listed
- Single phase and three phase
- Vertically mounted main and sub-feed circuit breakers
- Up to 84 circuits in one panel
- Interiors available in silver plated copper or aluminum bus

Switchboards

Switchboards can be custom designed or utilize a standard configuration to meet specific dimensional and electrical requirements. Circuit breakers and fusible switches can be group or individually mounted.

- Voltage: Up to 600Vac, Up to 250Vdc maximum
- Ampacity: 400A to 12000A maximum bus rating
- Switchboard ratings through 12000A, 200kAIC up to 480V, 100kAIC up to 600V
- Front, rear, and side accessibility
- Devices can be individually (vertically) or group (panel/horizontally) mounted
- Custom sheet metal and bus flexibility for busway and transformer connections
- UL Listed; NEMA Type 1 or 3R enclosures
- UL891 and NEMA PB-2

Low Voltage Switchgear

Designed to meet custom indoor or outdoor requirements. Meets applicable ANSI and UL1558 standards. Allows the use of popular power circuit breakers, mounted in fixed or drawout configuration.

- Voltage: Up to 600Vac
- Ampacity: Up to 5000A
- Through the door breaker operation
- Available in NEMA 3R outdoor enclosures
- UL 1066 circuit breaker; or CSA
- Front accessibility to control and communication wiring
- Circuit breakers are available in various levels of interrupting ratings from 42–200kA up to 480V and 130kA at 600V
Medium Voltage Switchgear
Metal-Clad/Metal-Enclosed

Available with vacuum circuit breakers and load interrupter switches in the 2.4kV, 5kV, 15kV, and 27kV classes. Metal-clad and Metal-enclosed exceeding all ANSI, IEEE, and NEMA standards for indoor or outdoor installations.

- Voltage: 2400V to 27kV
- Ampacity: 600A to 3000A
- Optimal component selection includes any commercially available vacuum circuit breakers from industry leading manufacturers
- Rear access for load and incoming connections
- Compartmentalized construction with breaker compartment for each device
- One-high or two-high construction
- Indoor or outdoor applications

Unit Substations

Designed for industrial applications to convert distribution voltages to utilization voltages. Easy interface with both primary and secondary switchgear. Outdoor or indoor. Primary voltage from 36kV, secondary voltage > 5kV.

- Primary – Air terminal chamber, vacuum circuit breaker or load interrupter switch to 27kV
- Transformer – Any commercially available transformer
- Secondary – Vacuum circuit breaker or load interrupter switches, UL 891, UL 1558, or CSA switchgear
- Maximum flexibility with wide range of components and ratings to meet application specifics
- Indoor or outdoor assemblies/construction
- Configures to any commercially available transformer by leading manufacturers

Paralleling Switchgear and Control Systems

Designed and manufactured to deliver full control of custom-configured power generation systems. They integrate all facets of metering, protection, communication and controls to deliver peak performance, system reliability and operating economy.

- Prime power
- Emergency standby
- Distributed generation systems
- Intrinsic system features – Load priority controls
- PLC integrations
- Remote monitoring communications
- UL and CSA listed; Meets ANSI, IEEE, and NEMA standards
38kV Medium Voltage Metal-Clad Switchgear

Now available in the 38kV class in indoor, outdoor non-walk-in, and outdoor walk-in enclosures; we offer optional component selection including different choices for protective relays, metering devices and PLC monitoring for specific applications.

- Voltage: 38kV; Ampacity: 1200A, 2000A
- Basic Insulation Level (BIL): 150kV (Breaker 170kV BIL)
- Breaker interrupter ratings: Up to 40kA
- Nema 1: 42" W x 123" D x 95" H
- Nema 3R: 42" W x 132" D x 107" H
- Advanced vacuum circuit breaker
- Rear access for load and incoming connections

Testing/Industry Standards
- ANSI/IEEE C37.20.2
- ANSI IEEE C37.04, C37.09, C37.54, C37.55
- CSA Listed

Custom Assemblies

From Marine Substations to Emergency Fused Coordination Panels, we design products for our customers that increase power system capacity and improve the reliability, stability and flexibility of power delivery.

- Emergency fused coordination panels
- Marina substations
- Walk-in enclosures
- Generator cable tap boxes

Wireless Thermal Monitoring Solutions

Effectively Monitor the Temperature of your Switchgear for Long Term, Cost-Effective Reliability and Safety

Temperature sensors installed in equipment interface with monitoring units to remotely report overheating for proactive planning and minimize downtime.

Designed for continuous monitoring of ambient bus and power connections through measurement of wireless temperature sensors that require NO power or wiring.

User-configurable alarms, both limit and differential via optional HMI monitoring system.

Industry standard Modbus RTU communications to customer SCADA
Out-of-the box thinking and a flexible manufacturing process enable IEM to meet some of the most challenging electrical distribution problems.

IEM’s unique manufacturing process moves the development of all phases along in parallel, allowing for possible changes, easy integration and shorter cycles. This flexibility enables IEM to handle projects that call for standard equipment and those that present unique requirements or a challenging time frame.

- Full customization and design flexibility
- Component and metering selection options
- Superior enclosures
- Fully rated bus based on density ratings
- Custom powder coat paint line
- All equipment tested to industry standards
- UL/CSA listed; meets ANSI, IEEE, and NEMA standards
- OSHPD seismic certification

Long term reliability of products is ensured by testing them beyond the limits of standard testing.
IEM Power Systems Is A Single-Source Solution for Advanced Electrical Power Systems

IEM Power Systems (IEMPS) designs and builds advanced power control systems for mission critical and similar applications where continuous, reliable and efficient power is required. As a part of Industrial Electric Mfg., IEM Power Systems provides unique solutions for today’s demanding power requirements. With facilities in the U.S. and Europe, IEM Power Systems is able to serve businesses worldwide providing:

Innovative Designs  |  Exceptional Build Quality  |  Fully Customizable Control Software and Interfaces
Flexible Build Configurations  |  Optional System Integration  |  Factory Integration and Testing

Critical Power - Rotary UPS Systems
Rotabloc provides a range of power ratings for individual modules 400 – 1600 kW.
This is integrated with IEM Switchgear and an independent Diesel Generator with an integrated control system providing a complete cost-effective solution.

Expertise in Control System Integration
IEMPS specializes in the design and build of Low and Medium Voltage Switchgear and Control Systems.
Our flexible approach allows for various configurations of equipment and controls. All specially designed systems can include multiple generators with gas or diesel reciprocating engines, gas or steam turbines, hydraulic turbines, or wind turbines as prime movers.

Efficient and Reliable CHP Solutions
Our CHP energy plants are mass-customized and modular, assembled in a factory controlled environment, and delivered to the customer’s site ready to connect and operate.
Customers quickly benefit from the cost, emissions and risk reduction, and the efficiency and reliability of on-site generation.

Integrated Solutions for Substations
IEMPS is a premeir supplier of electrical equipment and substation packages.
We offer high quality packaging and design services for high-voltage substations, switching stations, transmission and distribution facilities for wind, solar, hydro, commercial and industrial systems applications.

For more information please visit: www.iemps.com
For over 30 years, IEM Marine has been dedicated to the design, manufacture, and service of safe and dependable electrical power control, distribution and monitoring systems for the marine industry.

IEM Marine is qualified to build products that meet or exceed the standards of all major electrical regulatory bodies and associations including ABS, USCG, Bureau Veritas, Lloyd’s Register, IEEE among others for marine applications. We offer product listed under UL 1558 & UL 891 for low voltage switchgear and UL 508 for industrial motor controls.

- Generator Control Switchgear
- Distribution Switchboards and Switchgear up to 15kV
- Engine/Generator Control Panels
- Shore Power Solutions
- Individual Controllers
- Pilot House Panels
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IEM™

Corporate Headquarters
Industrial Electric Mfg™
48265 Waukegan Rd
Fremont, CA 94539
Tel: +1.510.605.1200
www.iemfg.com

Vancouver
Industrial Electric Mfg™
231 – 27555 58th Crescent
Langley, BC V3M 2M7
Tel: +1.778.273.5601
www.iemfg.com

Jacksonville
IEM Power Systems™
13902 Central Parkway
Jacksonville, FL 32224
Tel: +1.904.355.4464
www.iemps.com

Belgium
IEM Power Systems™
Court Lemoine, 16
B-4651 Battice (Belgium)
Tel: +32.87.32.02.50
www.iemps.com

ISO 9001 Certified

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