



Industrial Electric Mfg.



The Leading Provider of Custom Power Distribution Systems



Where Innovation Meets Power

For over 75 years, IEM has earned a strong reputation for delivering exceptional product quality and dependable service. From powering the rise of Silicon Valley to enabling the next wave of innovation, we continue to partner with industry leaders to plan, engineer, and deliver the future of power—offering the flexibility to meet complex technical requirements and the scale to support ambitious projects.

A Long History of Powering What's Next

Industrial Electric Mfg (IEM) began in a barn on a family ranch in Fremont, California and grew along with Silicon Valley, expanding to a 12,000 sq. ft. facility in 1957, 70,000 sq. ft. in 1980, 105,000 sq. ft. in 2003, and 135,000 sq. ft. by 2013. Today, IEM has 1.5M+ sq.ft. of manufacturing capacity.



IEM At-A-Glance

The Leading Provider of Custom
Power Distribution Systems

1.5M+

Square feet of production
capacity, and growing fast

15 Core Products

with countless
custom variations

\$1B+

in annual sales

75+

Years in business—a
proven tradition



14 Locations Worldwide

Across the U.S. and Canada

10,000+ Projects

commissioned to date,
across tech/data centers,
commercial, energy, utilities,
healthcare, industrial,
infrastructure, and more



The IEM Difference

What sets IEM apart? Four key strengths define how we consistently earn and maintain the trust of industry leaders:

1 Custom at Scale

IEM combines the flexibility to meet unique technical requirements with the capacity and experience to support demanding project schedules—at scale.

2 Proven Power

With over 75 years dedicated to power solutions, IEM brings deep expertise across critical industries—including healthcare, data centers, manufacturing, petrochemical, energy, and more—delivering reliable solutions for complex, high-stakes environments.

3 Partnership-Geared

We support and value long-term customer relationships by working closely with partners to proactively navigate the project lifecycle.

4 Solid Innovation

Our experienced engineering and product teams work tirelessly to deliver practical, forward-thinking solutions that meet evolving customer and industry needs.

Powering Dynamic Markets and Critical Sectors

IEM's custom power distribution systems power everything from stadiums to space centers and beyond. Our proven solutions meet the wide range of requirements across far-reaching industries.



Commercial & Real Estate



Industrial & Manufacturing



Energy & Utilities



Healthcare & Life Sciences



Infrastructure & Public Services



Technology & Data Centers

Proven Partnership That Delivers

World-class organizations across industries trust IEM to plan and deliver solutions for their most critical projects.



Flexible. Scalable. **Reliable.**

Exceed the most challenging requirements with custom solutions at scale, superior quality and reliability, and the flexibility to meet challenging deadlines.

Low Voltage

- Low Voltage Switchboards UL 891
- Low Voltage Switchgear UL 1558
- Low Voltage Automatic Transfer Switch (ATS) UL 1008
- Low Voltage Fully Integrated Switchboards
- Panelboards UL 67

Medium Voltage

- VESTA Arc-Resistant Switchgear
- Medium Voltage Metal-Clad Switchgear
- Medium Voltage Metal-Enclosed Switchgear
- Medium Voltage Utility Metering Cabinet
- Medium Voltage Automatic Transfer Switch (ATS)
- Medium Voltage 38 kV Switchgear
- Unit Substations

Integrated Products

- Power Distribution Unit (PDU)
- Remote Power Panel (RPP)
- Walk-In Enclosures
- Custom Assemblies

Field Service

- Startup/Commissioning
- Dedicated field service team of 100+ and growing



IEM products are rigorously tested beyond industry standards to guarantee long-term reliability and performance. With a wide range of component and metering selection options, superior enclosures, and fully rated bus based on density ratings, we provide tailored solutions built to last.

- Customization and design flexibility
- Equipment tested to industry standards and beyond to ensure long-term reliability
- Component and metering selection options
- Superior enclosures
- Fully rated bus based on density ratings
- Custom powder coat paint line with 1500 hr salt spray testing
- UL/cUL listed; meets ANSI, IEEE, and NEMA standards
- Seismic tested



Low Voltage



Low Voltage Switchboards UL 891

IEM Switchboards can be custom designed or utilize a standard configuration to meet specific dimensional and electrical requirements.

- Voltage: Up to 600Vac, up to 250Vdc maximum
- Ampacity: 400A to 12000A maximum bus rating
- 65 kAIC standard bus bracing (100 or 200kAIC – optional)
- Switchboard ratings through 12000A, 200kAIC up to 480V, 100kAIC up to 600V
- Type 1 or 3R NEMA enclosures
- 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
- Extensive protective device accessories available



Low Voltage Switchgear UL 1558

Our flexible design capabilities allow for the selection of industry-leading components including control and measuring devices, allowing for a superior, fully customizable control and monitoring electrical assembly.

- Voltage: up to 600V; Ampacity: up to 10,000A
- UL 1066 Circuit Breaker
- Through the door breaker operation
- Front accessibility to control and communication wiring
- Isolated access to all electrical wiring
- All breakers have unique draw out design allowing for through-the-door racking
- Short-circuit withstand (4 cycle): Up to 200kA
- Short-time withstand (30-cycle): 65 kA, 85kA
- Bolted copper bus provided as standard



Low Voltage Automatic Transfer Switch (ATS) UL 1008

IEM's Automatic Transfer Switch (ATS), equipped with an advanced breaker/switch transfer pair, provides increased power distribution reliability and reduced maintenance as compared to solenoid-based operators.

- Current: 3200A max
- Voltage: 208/240/480/600VAC
- Short-circuit withstand: 65/85/100/150kA
- Short-time withstand: 65/85kA
- Breakers/Switches: Siemens WL 3200AF, 3P/4P
- Access/Entry: Rear top or bottom
- Open-, delayed-, or closed-transition operation
- Automatic or non-automatic (manual) control
- Seamless integration with IEM LV switchboards and switchgear



Low Voltage Fully Integrated Switchboards

Modular and flexible, our custom capabilities allow for the selection of industry leading components including control and measuring devices, allowing for a superior, fully customizable control and monitoring electrical assembly.

- Up to 600V Vac / Vdc
- Up to 200kAIC; Up to 5000A
- 15kVA to 500kVA transformer
- Service entrance capabilities
- Integrated transfer switches
- Lighting panelboards
- Building management controls
- Half high distribution switchboard chassis
- Individually mounted breakers (cable in & cable out)



Panelboards UL67

IEM panelboards are designed to meet the specialized needs of any industrial or commercial electrical distribution system. Meets UL 67, UL 50, CSA and NEMA

PIE Panelboards

- Voltage: Up to 600Vac, 250Vdc maximum
- Ampacity: 100A to 600A
- 65kA at 480V maximum

PIU Panelboards

- Voltage: Up to 480VAC, 250VDC maximum
- Ampacity: 100A to 600A
- 65kA at 480Y/277VAC
- 65kA at 240V

CDP Panelboards

- Voltage: Up to 600VAC, 250VDC maximum
- Ampacity: 225A to 1200A



Medium Voltage



VESTA Arc-Resistant Switchgear

VESTA-AR™ Medium Voltage Metal-Clad Arc-Resistant Switchgear is designed to meet the specialized needs of customers who demand the highest quality power distribution assembly with the smallest footprint (24" x 96" x 60").

- Rated Voltage: 5-15kV; 95kV BIL
- Current: 600-2000A; 31.5kA, 40kA, 50kA
- Dimensions / 1200A: 24" x 96" x 60"
- Dimensions / 2000A: 30" x 96" x 72"
- Magnetically actuated breaker – up to 100,000 operations
- Full front accessibility
- Draw out breaker, PT, CT & CPT
- Shortest breaker pole spacing between phases
- Front and rear viewing windows
- Epoxy insulated bus bar as standard
- Plenum design incorporated into structural configuration. No additional height requirement.
- UL & cUL listed; Type 2A and 2B in accordance with ANSI/IEEE standards



Medium Voltage Metal-Clad Switchgear

IEM's medium-voltage, vacuum circuit breaker product line is available in the 5kV, 15kV, and 27kV classes in outdoor non-walk-in, outdoor walk-in and indoor power distribution enclosures.

- Voltage: 2400V to 38kV
- 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
- Unit substation primaries
- Indoor or Outdoor applications



Medium Voltage Metal-Enclosed Switchgear

IEM's fusible load interrupter product line is available in the 5kV, 15kV, and 27kV classes in outdoor non-walk-in, outdoor walk-in and indoor power distribution enclosures.

- 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
- Unit substation primaries
- Indoor or Outdoor applications



VESTA ARC-RESISTANT SWITCHGEAR



MEDIUM VOLTAGE METAL-CLAD SWITCHGEAR



MEDIUM VOLTAGE METAL-CLAD SWITCHGEAR



Medium Voltage



Medium Voltage Utility Metering Cabinet

IEM's MV Metal-Enclosed Utility Metering Cabinet provides the customer with the flexibility and cost savings of a completely factory-assembled primary utility metering cabinet with the customer's option of voltage and current transformers.

- Voltage: 5kV and 15kV
- BIL: 95 kV
- Dielectric: 36 kV
- Current ratings: 600A, 1200A, 2000A, and 3000A



Medium Voltage Automatic Transfer Switch (ATS)

IEM's MV ATS's utilize our superior IEM XFR-200 controller and are easy to interface to multiple sources as well as supporting a wide variety of communication options for connection to the existing Building Management or SCADA system.

- Voltage: 2.4kV - 15kV
- Current: 1200A - 2000A
- Metal-Clad construction
- Arc-Resistant Option
- Bypass Isolation Optional Configuration
- IEM XFR-200 Transfer Switch Controller
- Open and Closed Transition Option



Medium Voltage 38kV Switchgear

Our 38kV offering in indoor, outdoor non-walk-in, and outdoor walk-in enclosures offer optional component selection including different choices for protective relays, metering devices and PLC monitoring for specific power distribution applications.

- Voltage: 38kV
- Ampacity: 1200, 2000A
- Basic Insulation Level (BIL): 150kV
- Breaker interrupter ratings: Up to 40kV
- Breaker interrupter rating: Up to 40 kA
- NEMA 1: 42" W x 123" D x 95" H
- NEMA 3R: 42" W x 132" D x 107" H
- Advanced vacuum circuit breaker
- Compartmentalized construction with breaker compartment for each device



Unit Substations

IEM's Medium Voltage Unit Substations can utilize any configuration up to 27kV. They are designed for industrial applications to convert distribution voltages to utilization voltages.

- 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 or UL 1558 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



Integrated Products



Power Distribution Unit (PDU)

IEM's Power Distribution Units (PDUs) are engineered to deliver reliable, high-capacity power from the critical distribution system to IT equipment on the server floor or to other load points within your data center.

- Input Voltage: 480VAC
- Output Voltage: 208Y /120V, 415Y / 240V
- Power Rating: 500kVA
- Dimensions: 58"Wx48"Dx80"H
- Modbus TCP communications
- Standard 150 kA surge protection with EMI/RFI filtering
- UL & cUL listed
- Quick ship from inventory available – custom and made-to-order available



Remote Power Panels (RPPs)

IEM's Remote Power Panel (RPP) provides an unmatched power distribution panel in a highly compact footprint allowing easy integration within your data center facility. Our RPP features an advanced fully integrated and intelligent BCMS (Branch Circuit Monitoring System) with local display for main input and branch circuit breakers to monitor current, voltage, power/energy, and power quality parameters ensuring easy and effective power management.

- Quick ship from inventory
- UL and cUL listed
- Maximum Voltage: 480V
- Maximum Ampacity: 400A Max MTS/ MTO (for additional product offering consult your sales engineer)
- Short Circuit Current Rating: 14 kAIC @ 480VAC (65kAIC @ 240VAC) Standard; 65kAIC @ 480VAC Optional
- Enclosure Dimensions: 24" W x 12" D x 90" H



Walk-in Enclosures

IEM's Walk-In Enclosures can be employed to include Low and Medium Voltage power distribution and controls outside the facility's main building.

- Configurations can include LV; MV; Vesta Arc and Non-Arc Metal-Clad Switchgear or a combination of the three
- All internal wiring is run thru enclosed ducts, or conduit
- Side, top, or bottom cable entry and exit configuration options
- Internal equipment is factory installed and wired
- Walk-in Aisle may contain Climate Control Systems (heating and / or cooling)
- Heating and/or cooling units designed for its operating environment
- NEMA-3R certified enclosure for durable construction to withstand harsh environments

Field Service



Custom Assemblies

IEM's unique design and manufacturing capabilities provide a flexible and modular framework for bespoke configuration needs, integrating and integration of components and products into a single assembly specifically suited to a defined purpose.

- Full Customization and Design Flexibility
- Component and Metering Selection Options
- Fully Rated Bus Based on Density Ratings
- Wide variety of color options featuring our state-of-the-art powder coating system

At IEM, we ensure your power systems operate seamlessly with specialized field services tailored to meet your needs. From comprehensive start-up and commissioning to emergency repairs, our technicians specialize in servicing a variety of electrical distribution systems, including low-voltage and medium-voltage up to 38kV.

IEM is rapidly growing its network of field service offices to stay closer to our customers and their evolving needs. By strategically positioning expert technicians across North America, we're able to deliver faster response times, unparalleled service, and local expertise wherever your projects take you. This expansion reinforces our commitment to keeping your power systems running flawlessly—everywhere, every time.

Where We Are:

- Boardman, Oregon
- Phoenix, Arizona
- Toronto, Ontario, Canada
- Ashburn, Virginia
- Irrigon, Oregon
- Columbus, Ohio
- Plano, Texas

Specialized Services for Every Stage

Our team provides a range of services designed to keep your systems running at peak performance:

- Startup and Commissioning: Comprehensive testing and inspection to ensure your systems are ready to perform from day one
- Warranty Services: Reliable coverage and peace of mind for your equipment
- Technical Phone Support: Expert guidance and troubleshooting whenever you need it
- Industry-Specific Expertise



Where Innovation Meets Power

From our roots in Silicon Valley to our evolution as a multinational leader, IEM is building the future of power. Connect with our experts to explore how we can support your next project.



Industrial Electric Mfg.

iemfg.com

