



LINE CARD

Providing exceptional solutions for your electrical distribution, substation and transmission needs.

Territory: Western Pennsylvania, Ohio, West Virginia, Indiana, Portions of Kentucky, Michigan (excluding the Upper Peninsula), Upstate New York



ABB INC / ELECTRIFICATION

MV/LV switchgear, motor control, breakers, busway and distribution automation.

Represented for C&I in central and northern Indiana, Ohio, western Pennsylvania (as far east as 169xx) and West Virginia. Critical Power in central and northern Indiana, Kentucky and Ohio. Not represented in southern Indiana, the Gary/Hammond area or New York.

ELDS - Distribution Solutions

Switchgear

- Motor Control Centers: up to 7.2kV, 50kA, arc resistant
- ANSI Switchgear: Advance up to 50kA/27kV, SafeGear up to 63kA/15kV, ReliaGear 26" wide up to 31.5kA/15kV
- Gas Insulated Switchgear: ZX2.0 & ZX2.2, up to 38kV, 2500A
- Fault Current Limiters: IS-Limiter limits short circuit currents up to 210kA and operation currents up to 4000A
- Wind: 12 to 40.5kV, 420mm wide
- MNS LV MCC: 100kA at 480V, 65kA at 600V, 400A horizontal bus, 1600A vertical bus, arc resistant
- MNS-SG: 100kA at 480V, 65kA at 600V, up to 5000A, type 2B

OEM Apparatus

- Cassettes and Frames
- Circuit Breakers 5kV up to 38kV: AMVAC, ADVAC, ADVAC 38, Vmax, VD4, VM1, HD4
- Contactors up to 12kV, 400A
- Furnace Breaker VD4-AF

Switches

- VersaRupter: up to 38kV, 1200A
- DS1 synchronous transient-free capacitor switch: up to 17.5kV, 630A, 20kA
- Ultra Fast Earthing Switch (UFES): arc fault extinction in less than 4 ms, for switchgear ratings up to 40.5kV and 100kA

Outdoor Products

- R-Mag Vacuum Circuit Breaker: up to 38kV, up to 3000A, magnetically actuated
- Reclosers: GridShield solid dielectric up to 38kV, 16kA, 1200A; OVR vacuum up to 38kV, 16kA, 1200A
- Sectionalizers: up to 38kV

Instrument Transformers, Fuses & Cutouts

- Indoor from 600V up to 38kV: current & voltage
- Outdoor from 600V up to 48kV: current, voltage & combined
- Sensors indoor and outdoor: current, voltage & combined
- Capacitor Fuses: current limiting & expulsion
- Cutouts up to 38kV

Distribution Automation & Protection

- FT Test Switches: [online configurator](#)
- Microprocessor Relays: busbar, capacitor bank, feeder, generator, motor, remote I/O, transformer, voltage protection & control
- Electromechanical & Solid-State Relays
- REA Arc Flash Mitigation & Protection

Modular Systems (Packaging)

- Compact Secondary Substations
- Electrical Houses (E-House)
- Skid Mounted Unit Substations for mining, oil & gas
- Railway Modules
- Energy Storage Modules

LV/MV Service

- Service Agreements, Spare Parts
- Installation & Commissioning
- Maintenance & Repairs, Replacements
- Extensions, upgrades & retrofits
- Training, Engineering & Consulting
- End of life service

ELIS - Industrial Solutions

Switchgear

- AKD-10, AKD-20, Arc Vault, EntelliSys
- 800A to 5000A, 30kA to 200kA

Motor Control Centers

- Evolution Series E9000

Switchboards

- ReliaGear SB, Evolution, Spectra, Commercial Metering, Generator
- Up to 5000A

Busway

- Spectra, Spectra Low Amp, DH, LW, LTG, Armor-Clad, FVA/FVK
- 225A to 5000A

Panelboards

- ReliaGear neXT Power, ReliaGear Lighting, Spectra, A Series II
- Main bus up to 1200A, 15A-1200A branches

Dry Type Transformers

- General Purpose, K-Factor, Low Noise, Noise Isolation, Harmonic Mitigating
- Servicenter Mini-Unit Substations, Totally Enclosed, Midtapped, Drive Isolation, Buck-Boost
- 600V and below, up through 1000 kVA

Molded Case, Insulated Case & LV Power Circuit Breakers

- Q-Line, E150 Line, J600 Line, Spectra RMS, Record Plus
- Power Break II, EntelliGuard, WavePro, Gerapid DC

Safety Switches

- General duty, Heavy duty, Mill duty, Double throw, Emergency power
- Manual motor starters, AC disconnects
- Type 1, 3R, 4, 4X, 5, 12: up to 600V, 30A up to 1200A

Modular Metering

- Mini Mod III, Meter Mod III, Single Socket, Horizontal & Stack Modules

Load Centers & Circuit Breakers

- Q-Line, PowerMark Gold, PowerMark Plus
- Single & three phase, 22 kAIC main breaker, 40A up to 225A

Circuit Breaker Enclosures

- Type 1, Type 3R, Type 4/4X, Type 12

ABB ABB INC / ELECTRIFICATION (continued)**CP – Critical Power**

Represented in Indiana, Kentucky and Ohio only.

Power Distribution

- Power Distribution Units: PDU, PDS, PDU-MS
- Power Management & Monitoring: BCM, BCM-R
- Remote Power Panels: EDM, EDS, FaultGuard, HPP, RPP
- Static Transfer Switches: SS3, SS4, SuperSwitch GT in Mission Critical (MC) and Zero Footprint (ZF)

Uninterruptible Power Supply

- Conceptpower: DPA 60, DPA 120, DPA 500
- MegaFlex
- Single-phase UPS
- VCL, VH, GT and LP Series (LP11 & LP33)
- Batteries & battery cabinets: PowerValue, PowerScale, VRLA (IEC, UL)

HITACHI**HITACHI ENERGY**

High-voltage breakers, transformers, substations, grid automation and service.

Represented in Indiana, upstate New York, Ohio, Kentucky, western Pennsylvania and West Virginia. Public Power in Michigan (excluding the Upper Peninsula), Ohio and Indiana. Previously ABB Power Grids.

PGHV – High Voltage**Circuit Breakers**

- Dead Tank SF6: 38kV up to 550kV
- Live Tank: 72.5kV up to 1200kV
- Disconnecting Breaker: 72.5kV up to 550kV

Hybrid Breakers

- PASS 72.5kV up to 550kV: complete breaker with integral disconnecter / earthing switches, voltage & current transformers

Gas Insulated Switchgear

- GIS Breakers 72.5kV up to 1200kV

Generator Circuit Breakers

- GCBs 50kA up to 300kA, up to 33,500A

Instrument Transformers

- Current Transformers & Sensors: 25kV up to 800kV
- Voltage Transformers: 25kV up to 800kV
- Combined Current / Voltage Transformers: 72.5kV up to 420kV
- Station Service Voltage Transformers: 46kV up to 550kV
- Coupling Capacitor: 72kV up to 800kV

Surge Arresters

- Distribution, Intermediate & Station Class
- Polymer & Porcelain, AC & DC
- Surge Counters

Capacitors & Filters

- HV & MV Capacitor Units: AC & DC, single & three phase, wet & dry types, motor & transformer surge protection
- Capacitor Banks: open rack & modular / metal enclosed
- Harmonic Filters up to 550kV, >3 MVAR
- LV Capacitor Units: 220V up to 1000V, up to 130 MVAR
- Power Factor Controllers RCT & RVT, contactor or thyristor switched banks, power quality filters

Air Core Reactors

- Shunt, Neutral Grounding, Harmonic Filter
- Fault Current Limiting, Capacitor Inrush Limiting

PGTR – Transformers**Distribution Transformers**

- Dry type: Open Wound, Cast Resin & Resibloc, Network, Transient Voltage Resistant, EcoDry
- Oil type: Padmounted, Network / Submersible, Unit Substation, Substation. Up to 25MVA, up to 69kV

Power Transformers

- Substation, Generator Step Up, Arc Furnace, Rectifier
- Variable Speed Drives, Wind, Shunt & Series Reactor

Insulation & Components

- Bushings, Composite Insulators, Tap Changers & Switches
- Insulation Materials, Vacuum equipment, Oil treatment plants
- Liquid level indicators, self-dehydrating breathers, liquid & winding temperature indicators
- Pressure relief devices, Buchholz relays, dissolved gas analyzers

PGGI – Grid Integration**FACTS**

- Fixed Series Compensation, Thyristor Controlled Series Compensation
- STATCOM, Static Var Compensators
- Synchronous Condenser Systems, Static Frequency Converters

Substations

- Air Insulated, Gas Insulated, Hybrid Substations
- Mobile Substations, Containerized & Pre-fabricated Substations
- Digital Substations

Power Systems Consulting

- Asset Evaluation & Systems Analysis
- Commercial & Industrial System Studies
- Equipment and Technology Selection, Design
- Power Market and Economic Analysis, T&D System Studies

Substation Services

- Installation & Commissioning
- Extensions, Upgrades & Retrofits
- Maintenance

PGGA – Grid Automation**Enterprise Software**

- Digital Enterprise: single-source access to operations, assets, systems and the workforce
- Asset & Workforce Management: fleet assets, linear assets and facilities

Network Control

- Advanced Distribution Management Systems (ADMS)
- Energy Management Systems (EMS), Generation Management
- Market Management Systems, SCADA

Substation Automation Systems

- Digital Substation, Station Level Solutions
- Protection Solutions, Bay Control Solutions
- Wide Area Monitoring

Substation Automation Products

- Relion Relays, Combiflex Relays
- Remote Terminal Units (RTUs)
- Wireless Networks: broadband, point-to-point, mesh routers, mesh networks, radios, cellular gateways, network management

HITACHI

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HITACHI ENERGY (continued)**Microgrids & Energy Storage**

- Microgrids / grid edge solutions
- Energy storage solutions

PGSE – Services**High Voltage Service**

- Installation, Commissioning, Radiography, Training, Spare Parts
- Maintenance, Repairs, Extensions & Upgrades, End of Life Services
- Condition monitoring, Partial discharge detection, Up-rate packages
- Oil breaker replacement & parts, Remote monitoring
- Interrupter replacement and repair, Mechanism replacement and repair

Transformer Repair & Engineering Services (TRES)

- TXplore Inspection Robot, CoreTec Sensors
- Transport & Haul, Installation, Commissioning, Supervision
- Repairs (onsite & workshop), Asset Health, Inspection & Diagnostics
- Life Cycle Assessments, Preventative Maintenance
- Tap Changer Repair & Retrofits, Oil Processing, Dissolved Gas Analysis

Digital Transformer Monitoring

- TXpert: digitalized distribution transformers
- CoreSense: online monitoring of transformer gases

Post Glover*"The Resistor Specialists"***POST GLOVER**

The resistor specialists: grounding, braking, motor control and harmonic filtering.

Represented in western Pennsylvania and West Virginia.

Power Resistors & Grounding**Neutral Grounding Resistors**

- Low Resistance grounding resistors
- High Resistance grounding resistors
- Neutral Grounding Transformer

Dynamic Braking Resistors

- Cross reference guides for Siemens, Omron, GE, Toshiba, Mitsubishi, Yaskawa and ABB
- Rockwell Automation cross reference information

Motor & Crane Control

- Motor Control Resistors
- Crane Control Resistors

Transit Resistors

- Traction and light rail: high-speed trains, locomotives, commuter rail and subway systems

Harmonic Filter Resistors

- Designed, built and tested to applicable IEC and IEEE standards

Power Resistor Elements

- Resistor elements for OEM assemblies

TECHNIBUS
METAL ENCLOSED BUS SOLUTIONS**TECHNIBUS**

Metal enclosed bus solutions: non-segregated and isolated phase bus.

Represented in Indiana, Ohio, western Pennsylvania and West Virginia.

Metal Enclosed Bus Solutions**Non-Segregated Bus**

- 600V – 38kV AC
- 250V – 2500V DC
- Copper & aluminum

Isolated Phase Bus

- 15kV – 24kV
- 110/125kV BIL
- 3000A – 28,000A

Services

- Bus bar fabrication & insulation services
- Advanced systems

**ABB INC / INDUSTRIAL AUTOMATION**

Process automation, safety systems and electrical systems for heavy industry.

Represented in Indiana, Ohio, western Pennsylvania (as far east as 169xx) and West Virginia. Not represented in New York.

IAEN – Energy Industries

For chemical, oil & gas, power generation and pharmaceutical customers.

Automation

- Distributed Control Systems
- Safety Systems, Functional Safety Management
- Advanced Process Controls
- Terminal Management Systems
- SCADA Solutions

Electrical Systems

- Engineering & Design
- E-houses
- Power Transmission, Power Distribution
- Drive system applications
- Process power manager

IAP – Process Industries**Metal Systems**

- Automation and electrification for metals production

ABB Ability**Digital Solutions**

- Digitally enabled industry solutions from device to edge to cloud
- Uses industrial data from sensors, devices and software for real-time insight
- Monitor, control and manage devices, processes and operations on-site or remotely
- Simulate, predict and optimize through tools, insights and analysis
- End-to-end and closed loop solutions
- Microsoft Azure as the enterprise-grade cloud platform

 **ALBARRIE** (continued)



ALBARRIE

Passive secondary oil containment and spill control for substations.

Represented in Indiana, upstate New York, Ohio, western Pennsylvania and West Virginia.

Secondary Oil Containment

Containment Systems

- SorbNSeal®: passive, gravity-based, self-sealing secondary oil containment that surrounds oil-filled equipment with geosynthetic material
- EsterWeb: passive oil containment for ester-based fluids
- Oil Blocker: general spill containment
- Vault Oil Containment Kits
- Firewalls

Spill Control Products

- Absorbent Pillows
- Oil Drip Pans
- Sorbtray Spill Trays



EMSPEC

Medium, high and extra high voltage disconnect switches up to 800kV, with grounding switches and operators.

Represented in Indiana, Kentucky, Ohio, western Pennsylvania and West Virginia.

Disconnect Switches

Vertical Break

- VB1: 15.5kV up to 245kV, 1200A up to 4000A, up to 7000A and 80kA at select voltages
- VSSBIII: extra high voltage, 245kV up to 800kV, 1200A up to 5000A

Center Break

- SR16200, LC1 and LC2: 15.5kV up to 245kV, 1200A up to 4000A
- SR16200V: Vee center break configuration

Side Break

- LS1 Side Break: 15.5kV up to 72.5kV, 600A up to 2000A
- LD1, LD2 and LDW Double Side Break: 38kV up to 362kV, 1200A up to 3150A
- SSBIII Double Side Break: extra high voltage, 245kV up to 800kV, 1200A up to 5000A

Knee Type & Pantograph

- VG1 Knee Type: 123kV up to 362kV, 1200A up to 3150A, folds to half height when open
- SP15506 Semi-Pantograph: 38kV up to 245kV, 1200A up to 3150A
- GSSB Pantograph: 123kV up to 800kV, 3150A up to 5000A

Hookstick & Indoor Switches

- HS17750 Hookstick: 15kV up to 72.5kV, 600A up to 3000A, also in Vee configuration
- SB813 Vertical Tilt: 5kV up to 38kV, 600A up to 8000A, indoor, for 89SS and 89ND generator applications

Grounding Switches

- 15kV up to 800kV, up to 80kA short time (ST90 at 90kA)
- Stand-alone or built-on, parallel or perpendicular mounting
- Induced current interruption

Operators & Accessories

- MR180 Motor Operator
- RV801, RV402 and RV204 Manual Wormgear Operators
- BT280 Manual Swing Handle Operator
- Arcing horns, quick break whips, load break interrupters, bus transfer devices and mechanical interlocks

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