















Municipal utility line card

Power Products Medium Voltage

Product	Offering		Benefits
Reclosers	OVR recloser (single and three phase), up to 38 kV, 1200 A, 16 kA		Provided with the PCD control, the OVR recloser provides single-phase tripping, reduced maintenance, and increased safety with all electronics located in the low voltage control cabinet. The OVR is available with single- and three-phase tripping recloser units.
	GridShield® up to 38 kV, 1200 A, 16 kA		ABB's newest generation recloser with the advanced RER620 control and integrated web browser for easy programming, the GridShield provides smart grid technologies such as DNP & IEC 61850 with GOOSE messaging; available with single- and three-phase tripping, integrated loop control.
Circuit breakers	R-MAG® magnetically actuated outdoor breaker		Designed with a magnetic actuator mechanism, the R-MAG breaker reduces costly maintenance intervals, increases reliability, and improves safety. This field-proven design is offered in ratings of 15-38 kV 200 kv BIL and 40 kA.
Switchgear	Gas-Insulated Switchgear (GIS)/Air-Insulated Switchgear (AIS)		GIS provides arc resistance, reduced maintenance, reduced footprint when compared to traditional 27 kV and 38 kV metal-clad switchgear, increased reliability, and stainless steel SF6 filled "sealed for life" gas compartments. AIS is designed for durability, ease of installation/maintenance, and increased safety and protection with custom-engineered solutions available.
Padmount switching products	ReliaPad® padmounted circuit breaker		Dead-front padmount circuit breaker consists of a three-phase breaker, load-break switches, control cabinet and a VT for control power. The ReliaPad is offered with the PCD or RER620 control for single- or three-phase tripping, remote communication, and multiple smart grid applications.
Distribution protection relays & control solutions	Microprocessor relays with PCM600 Professional software	 	Offering includes protection relays for distribution applications in substation and feeder applications. The Relion® 615 and 620 series offer state-of-the-art, low to high end protection and control solutions for reclosers, breakers, and transformers. Relion relays include an easy-to-use interface, three open communication protocols, short lead times, the industry's best warranty, and complete engineering operations & maintenance software for protection relays.
	Pre-Configured Matching Unit (PCMU)		Serving as a direct replacement for ABB legacy relays, the PCMU is the best solution to mitigate risk, limit downtime, and save costs on relay upgrades. It ensures a reliable, seamless upgrade due to the risk reduction only a wire-alike solution can provide.
	COM600 grid automation controller		A flexible substation automation device that provides localized automation tasks, The COM600 gathers data from protection and control devices, such as relays and meters, combining different communication protocols into one common contact point. This unit enables local HMI, data concentrator, and advanced smart grid automation such as FDIR and VVO automation.
	Electromechanical relays		For new applications where reliable operation is essential, in harsh environments, or in existing installations where an exact replacement is required, ABB electromechanical relays are key components for your power infrastructure.
	Automation accessories		RIO600, touch-screen interfaces, and cables. Modular discrete input and output modules allows remote status and control of devices not currently controlled by IEDs. Contact ABB for custom communication cable requirements.
Test switches	Flexitest™ switch		FT switches provide a safe, simple, fast and reliable method to isolate, test, and service installed equipment without disturbing the system.
Arc protection devices	REA Series		With safety a top priority, the REA family of relays is designed for the protection of medium and low-voltage air-insulated switchgear against arc incidents.
Passive voltage indicators	VisiVolt™		Adapted for permanent installation on busbars and naked or insulated metal conductors in medium voltage systems, the VisiVolt indicates the presence of voltage to provide a higher level of safety.









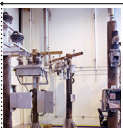

Product	Offering		Benefits
Sensors	DistribuSense™ current and voltage sensors		Designed to support the needs of the grid, DistribuSense sensors have the highest measurement accuracy to maximize distribution grid efficiency, enhance distribution grid reliability, and provide high accuracy with easy installation.
Overhead distribution cutouts & sectionalizer	Types ICX, LBU-II, NCX, EU & vertical contact		Distribution cutouts, used on overhead distribution systems to provide overcurrent protection, give visible indication of fuse operation and sectionalizing break points for maintenance personnel.
	AutoLink sectionalizer		With only one style needed per voltage class (15 and 27 kV), you'll save time, effort, and money. The ABB Autolink fits on a standard ICX cutout body and is field configurable and field resettable.
Overhead disconnect switches	SID (15 kV – 38 kV, 600 or 900 A) & LSID (15.5 kV – 15/27 kV, 600 A)		Single-phase disconnect on overhead distribution feeders and in outdoor distribution substations. Mount like a standard cutout or directly on a pole, used as a disconnect between overhead and underground lines.
	DCD double insulator single-phase		Hookstick operated switch used for sectionalizing or isolating circuits on electrical distribution systems up to 38 kV.
	RBD single-phase bypass		Provides a means for bypassing and disconnecting reclosers or voltage regulators, allowing maintenance on equipment without service interruption.
	ITD single-phase, non-loadbreak, inline tension with silicone insulator		Used for manual switching of de-energized or parallel circuits of overhead distribution lines rated 15-38 kV.
Instrument transformers	Current and voltage transformers 0.6-34.5 kV		Dry type instrument transformers for indoor and outdoor use providing high accuracy and standard accuracy metering, relay protection, and control power.
Aftermarket service & support	Replacement components, field & commissioning services, replacement circuit breakers, training, engineering solutions, retrofit, & factory refurbishment		Expert service on installed equipment, as well as continuing support for equipment upgrades and replacement, are key benefits of our service structure. ABB's superior technology, backed by quality assurance programs that meet rigorous standards along with worldwide leadership in electrical distribution equipment, allow ABB to provide a multitude of aftermarket solutions and services to fit customer needs.
Center of Excellence smart grid solutions	FDIR, VoltVar control, monitoring and diagnostics, load control, and energy storage		Delivering system assessment, value engineering, project management, work prioritization, and product solutions with ABB and non-ABB technologies.
Tropos	Wireless communication devices		Rugged, easy to install devices used to build field area communication networks for smart grid applications.

ABB Inc.
Medium Voltage Switchgear, Outdoor Products, & OEM Apparatus
 655 Century Point
 Lake Mary, FL 32746
 Phone: +1 407 732 2000

ABB Inc.
Medium Voltage Service
 2300 Mechanicsville Road
 Florence, SC. 29501
 Phone: +1-800-HELP-365 (option 7)
 +1-407-732-2000

ABB Inc.
Medium Voltage Distribution Components
 3022 NC 43 North
 Pinetops, NC 27864
 Phone: +1 252 827 3212
 Fax: +1 252 827 4286

www.abb.com/mediumvoltage
www.abb.com/substationautomation
www.abb.us/mvservice

ABB Inc.
Distribution Automation
 4300 Coral Ridge Drive
 Coral Springs, FL 33065
 Telephone: +1 954-752-6700
 Fax: +1 954-345-5329

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