DISTRIBUTOR LINE CARD

EV grid-to-charger solutions

The right equipment for any application

Product offering		Charging type: Residential AC	Charging type: Light commercial AC	Charging type: Fast DC	Charging type: Large fleets / heavy duty	Benefits	Cycle
SWITCHBOARDS							
	ReliaGear® SB – EV Grid-to-Charger switchboard		●	●	●	• Fast lead times • Multipurpose offering • Easy to order, stock and install • Flexible future-proof design • Upgradable communications from breakers • Utility designed for EUSERC applications • NEMA type 3R, rodent barrier and heater for outdoor spaces • Surge protection included	Stockable
	ReliaGear® SB – EXcelerate switchboard		●	●	●	• Configured to order • More than 4700 configurations available • Up to 4000 A, 600 V AC, 65 or 100 kAIC • NEMA 1 or 3R enclosure • Utility sections available	Configured Quick order
PANELBOARDS							
	ReliaGear® lighting panelboard		●			• Advanced electronic trip units within compact frames • Increased amperages and sub-feed circuit count • Thousands of configurations and optional embedded surge protection devices, main metering or branch circuit metering available • Extruded split neutrals to simplify wiring and help speed installation • NEMA 3R enclosures offer ample gutter space • RGM40 revenue-grade meter available	Quick order
	ReliaGear® merchandised lighting panelboard		●			• An unassembled panelboard offering for projects requiring quick turnaround • Selectable interiors, enclosures, fronts, main breakers and sub-breaker kits provide the flexibility to meet most application requirements	Stockable
	ReliaGear® neXT power panelboard		●	●		• Field-reversible bus stack accommodates top or bottom feed direction • Features award-winning plug-in Tmax® XT circuit breaker assemblies designed for improved density and fast installation and replacement • Standard design includes safety features, such as IP20 interiors • Versatility of factory-assembled and unassembled deliveries • RGM40 revenue-grade power quality meter available • Indoor and outdoor versions available, including NEMA 3R and 4/4X	Quick order
	ReliaGear® merchandised neXT SuperBox power panelboard		●	●		• A preassembled combination of ReliaGear® neXT power panelboard components for immediate installation • Single-SKU ordering for ease and convenience • Modular, field-modifiable panel design with groundbreaking Tmax® XT plug-in circuit breakers • Ready to service projects requiring quick turnaround • NEMA 1 and 3R enclosures available	Stockable

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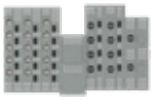
LOAD CENTERS							
	ReliaHome™ T-Series load center	●				• Full-length, elevated neutral bars are easier to wire, reducing installation time and cost • Raised neutral screws cut wiring time • Tin-plated copper bus and galvanized box increase durability and reliability • Tangential knockouts reduce conduit bending time • Back keyholes and slotted side holes simplify mounting	Stockable
	ReliaHome™ meter combo load center	●				• Provides circuit configuration flexibility with ABB's ½" THQP breakers • High-quality materials ensure extended durability • Efficient design enables fast and easy installation • Solar-ready offering allows homeowners to incorporate solar installations in their electrical system • Comprehensive portfolio covering many utility requirements across the US, including EUSERC	Stockable
	ReliaHome™ P-Series and P-Series+ load center	●				• An essential electrical component to receive and distribute power from a utility source throughout residential applications • Uses plug-on neutral electronic circuit breakers that attach to the neutral bus using ABB's ReliaLock™ connection feature and plug-on neutral bars • Convenient factory-installed neutral and ground bars to simplify wiring and help reduce labor time and costs	Stockable
	ReliaHome™ 3-Phase load center		●			• Accepts 1-, 2- or 3-pole breakers — ideal for commercial and high-rise residential units • Meets many applications with a factory-installed, highly rated SACE® FORMULA A2 main circuit breaker or main lugs	Quick order
SMART RELAY PANELS							
	ReliaHome™ smart panel	●				• Home energy management solution that can manage electrical loads to stay below the load center threshold, which may eliminate the need for a service upgrade • Designed to optimize and control the home's highest-consumption loads, such as EV chargers and other electric appliances • Compatible with any manufacturer's load center and can be installed as part of new home construction or renovation projects and electrical changes	Stockable
AC DISCONNECTS							
	Steel and thermoplastic AC disconnects	●				• Fusible and non-fusible AC disconnects provide a safe and convenient way to disconnect power to air conditioning units during maintenance • Smart design allows cover to be closed while cords are plugged into the GFCI receptacle (on some models) • Disconnect switch positioned above GFCI receptacle allows easier access	Stockable

Product offering		Charging type: Residential AC	Charging type: Light commercial AC	Charging type: Fast DC	Charging type: Large fleets / heavy duty	Benefits	Cycle
MODULAR METERING							
	ReliaMod™ modular metering		●			• In-field phase balancing technology included on all meter sockets eliminates the need for field-installable kits • Captive pull latch to remove meter covers at a quicker rate and without using tools • Gasketless enclosure ganging to reduce the potential for degradation over time • All tenant breakers include factory-installed load lugs for fast connections • RELT (reduced energy let-through) is standard on all main breakers 1200 A and above to comply with NEC 240.87 arc flash maintenance requirements	Stockable
	Single socket metering	●				• Provides an installation point for the utility company to install their utility meter in small commercial or residential applications • Provides a safe and reliable connection to the electrical service for the building • Heavy-duty lug screws provide a stronger connection component for reliable termination	Stockable
	Horizontal metering	●				• Designed for small commercial applications, such as strip malls, mixed-use buildings and other commercial buildings • Multiple gang options allow for flexibility and ease of installation	Stockable
SWITCHGEAR (MEDIUM VOLTAGE)							
	Advance® air-insulated metal-clad switchgear			●	●	• ABB's ANSI platform for 5, 15 and 27 kV metal-clad switchgear, featuring a narrow footprint • Designed and tested according to IEEE C37.20.2 • Designed with safety, reliability and durability in mind with galvanized steel construction, hem bending techniques and Delrin arc-quenching contacts • Available as digital switchgear and with SwitchgearMD™ 24x7 asset health monitoring for enhanced safety, simplicity by design and reduced operational costs • Outdoor versions available	Configured
	BreakMaster™ load interrupter switchgear			●	●	• Metal-enclosed load interrupter switch (LIS) provides dependable, economical load switching and protection • For medium voltage circuit applications from 2.4 kV through 15 kV in 600 A or 1200 A load interrupting ratings • Used mainly as a primary or secondary disconnect switch for transformers • Variety of available configurations also make it useful for specific distribution needs • Outdoor versions available	Configured
	BreakMaster™ V load interrupter switchgear with vacuum circuit breaker			●	●	• For facilities concerned with arc flash safety standards • Includes a vacuum circuit breaker instead of fuses to provide reduced arc flash incident energy levels for customers on their existing medium voltage equipment • Outdoor versions available	Configured
TRANSFORMERS (LOW VOLTAGE)							
	ReliaGear® XFMR dry type vented transformer		●	●	●	• Unique core and coil design makes QL transformers among the quietest available • Core and coil assemblies mounted on rubber isolation pads • Single piece front/back • Outward-facing feet • Lifting eyes provided in top clamp • Lug kit and ground bar kit included in most units through 150 kVA • Outdoor NEMA 3R versions and kits available	Stockable

Product offering		Charging type				Benefits	Cycle
		Residential AC	Light commercial AC	Fast DC	Large fleets / heavy duty		
CIRCUIT BREAKERS							
	Residential circuit breakers — THQL	●				• Q Line circuit breakers are compact — just one-inch wide per pole— thermal-magnetic devices • Designed for residential and commercial applications in load centers or lighting panels • Quick-make/quick-break mechanisms, common trip bar and easy-to-see trip indication to ensure safety and reliability • Can be ordered with auxiliary contact and shunt trip accessories, as well as for use in HID applications	Stockable
	Residential enclosed circuit breakers	●				• Convenient factory-installed main circuit breaker • Corrosion-resistant outdoor (NEMA 3R) enclosure • Service entrance rated UL • Neutral included	Stockable
	Molded case circuit breakers — THQB		●			• QB breakers are bolt-on versions of the Q Line • Used for bolting to bus connections of load centers and lighting panels • Quick-make/quick-break mechanisms, common trip bar and easy-to-see trip indication to ensure safety and reliability • Can be ordered with auxiliary contact and shunt trip accessories, as well as for use in HID applications • Available in 1-, 2- and 3-pole versions	Stockable
	Molded case circuit breakers — TEY		●			• Used in lighting panelboards • Dependable and effective thermal-magnetic trip units • Time-current curves designed for easy coordination with upstream main devices • 1-, 2- and 3-pole breakers in multiple short circuit tiers	Stockable
	Molded case circuit breakers — SACE® FORMULA		●			• UL range consists of two frames, A1 and A2, that reach up to 100 A and 250 A respectively • Extremely compact dimensions and coordinated depths for standardized dimensions and savings in distribution boards • Quick and easy selections with 1-, 2- and 3-pole versions makes ordering easy and ready for use immediately • Fixed thresholds on trip units, pre-cabled version of accessories and FORMULA Link for quick installation	Stockable
	Molded case circuit breakers — SACE® Tmax® XT		●	●	●	• Extreme performance and protection features up to 1200 A • Maximize ease of use, integration and connectivity through the embedded Bluetooth® wireless technology and ABB EPiC mobile app • Built to deliver safety, reliability and quality • UL products rated for CSA and IEC • Easy integration into building and automation systems	Stockable
	Low voltage power circuit breakers — SACE® Emax 2			●	●	• Able to manage almost any grid condition thanks to advanced functions such as load shedding, power controller, embedded ATO, Synchrocheck logic, adaptive protection/dual settings • Simplified integration into automation and energy management systems with eight communication protocols • Easy connection to ABB Ability™ Energy and Asset Manager cloud computing platform • Remote connection through embedded Bluetooth® wireless technology and ABB EPiC mobile app • Four frame sizes offer compact size and high performance, yielding up to 25% cost savings in both footprint and copper • Plug-and-play accessorizing and user-friendly commissioning • Able to evolve with ABB Ability Marketplace™ upgrades	Stockable
	Enclosed circuit breakers		●	●	●	• UL/cUL certified • Available in NEMA 1 (flush or surface mounted), NEMA 3R, NEMA 12 and NEMA 4/4X enclosure options • Suitable for use as service equipment • Short circuit ratings equal to the installed breaker • Complete set of field installable accessories	Configured (stockable enclosures)

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SURGE PROTECTIVE DEVICES (SPDS)							
	THQLSURGE2 (internal) surge protective devices	●				• Type 1 power SPD that helps provide reliable protection for electronics and appliances throughout the entire home • Simple plug-on design • 3-year, $25,000 connected-equipment warranty	Stockable
	THOMESURGE (external) surge protective devices	●				• Type 1 power SPD that can be installed with any ABB or other brand load center in service entrance or sub-panel locations • Provides reliable and immediate protection for sensitive electronics and appliances throughout the entire home • 3-year, $25,000 connected-equipment warranty	Stockable
	OVRHTP surge protective devices		●			• A cost-effective solution designed for UL panel builders and original equipment manufacturers (OEMs) to help protect against utility power anomalies and lightning-induced transient surge conditions • Compact and advanced design features thermally protected MOVs to eliminate overvoltage, safeguarding equipment and capital investments	Stockable
	TPHE series surge protective devices		●	●	●	• Shield sensitive electronic equipment against the damaging effects of transients • Protects against transient surges caused by lightning, utility load switching, internal load switching and more	Stockable
	TPME series surge protective devices		●	●	●	• Ideal for mid-level distribution and point-of-use applications • Shield sensitive electronic equipment against the damaging effects of transients caused by lightning, utility load switching, internal load switching and more	Stockable
SAFETY SWITCHES							
	Spec-Setter general duty safety switches	●	●			• Designed for residential and light commercial applications where duty is not severe • 30–600 A, 240 V AC, 250 V DC maximum • Fusible and non-fusible units • NEMA Type 1 (indoor) and Type 3R (outdoor) enclosures • UL listed short-circuit rating is 10,000 rms symmetrical amps as standard	Stockable
	Spec-Setter heavy duty safety switches		●	●	●	• Designed for commercial and industrial applications where safety, high performance and continuity of service are essential • 30–1200 A, 600 V AC, 600 V DC maximum • Fusible and non-fusible units • NEMA Type 1 (indoor), Type 3R (outdoor), Type 4/4X (water- and dust-tight, corrosion-resistant) and Type 5/12 (drip- and dust-tight) enclosures	Stockable

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DIGITAL SOLUTIONS AND SERVICES							
	ABB Ability™ energy and asset manager		●	●	●	• Monitor and manage your facility's electrical distribution via smartphone, tablet or computer in real time to optimize energy use and costs. • Flexible, scalable and easy to implement for use in single and multi-site applications. • Simplifies building management and offers predictive maintenance capabilities that reduce downtime and maintenance, while also reducing operational costs.	N/A
	EV load management			●	●	EV load management is a solution that helps optimize electric vehicle (EV) charging while minimizing strain on the electrical grid: • Reduces required utility connection by managing the charging load. Fleet operators and parking garage owners can avoid costly upgrades to their electrical infrastructure, potentially saving thousands of dollars. • Prevents overloading of electrical circuits that can lead to power outages and damage to equipment. • Reduces peak demand on the grid, which helps utilities avoid using expensive and polluting backup generation during peak hours. • Minimizes charging costs by taking advantage of off-peak electricity rates and optimizing charging schedules, saving EV owners money on their electricity bills. • Improves grid stability by smoothing out EV charging demand — load management can help stabilize the frequency and voltage of the electrical grid.	N/A
	Microgrid, BESS controls		●	●	●	• Manages power generation — The microgrid controller determines how much power should be generated by different sources within the microgrid, such as solar panels, wind turbines, BESS systems and generators. This might involve optimizing for cost, efficiency or environmental impact. • Distributes power — The microgrid controller directs the flow of electricity to meet the needs of connected buildings and equipment. This includes managing peak demand and helping ensure sufficient power availability during outages. • Collects data and analyzes performance — The microgrid controller gathers information on energy usage, generation and other aspects of the microgrid. This data is used to optimize operations, identify potential problems and improve future planning. • Connects to the main grid — Some microgrids seamlessly switch between islanding mode (operating independently) and grid-connected mode. The microgrid controller handles this transition, helping ensure smoother and safer operation. • Maintains stability — The microgrid controller constantly monitors the microgrid's voltage, frequency and other critical parameters and takes corrective action if anything falls outside acceptable ranges. This helps prevent blackouts and equipment damage.	N/A

EV grid-to-charger simulator

See the electrical equipment and estimated utility service needed for nearly any combination of EV chargers.

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