



Industrial power management system

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The SEL powerMAX Power Management and Control System uses a suite of proven SEL products and technologies to mitigate blackouts and make your electrical power system more reliable, resilient, and secure.

SEL powerMAX is a scalable, integrated system composed of relay and control hardware, software, and logic processing--all designed by our expert power system engineers.

powerMAX advantages include:

powerMAX solutions are successfully managing electric power systems right now in installations ranging from small mobile microgrids (kilowatts) to country-level macrogrids (gigawatts). Industrial plants, water and wastewater plants, microgrids, campuses, commercial buildings, and electric generation, transmission, and distribution systems are all within our scope.

Field-proven, multifunction SEL relays--the most reliable in the electric power industry--are the essential building blocks of our power management and control systems. By coordinating their functions and operation with our powerMAX control logic, we create systems that help you efficiently meet control, protection, monitoring, and grid connection requirements.

At the core of every powerMAX solution is our powerful programmable logic controller--the SEL Real-Time Automation Controller (RTAC). It responds to both external data (such as real-time pricing signals) and to fast-changing system dynamics, as measured by the relays, to optimize the system's operation.

The SEL RTAC operates at near-relay speeds, allowing it to reliably balance load with generation, provide seamless islanding, resynchronize your system, and keep critical processes online.

The relay-based powerMAX architecture ensures system stability and flexibility with comprehensive, intelligent management of generation and load. This gives you the ability to reduce operating expenses and meet fluctuating demands.

All of our products are designed, tested, and manufactured in SEL-owned and -operated facilities in North America.

The SEL Engineering Services team follows rigorous engineering procedures for design, development, testing,



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and commissioning of electric power systems. We continually identify, monitor, and improve best practices to ensure your satisfaction.

Contact us for free full report

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