

Panels and Integrated Systems



Upgrade your system, increase reliability,
and lower operation costs

- Pre-engineered or custom designs by local SEL engineers ensure the best fit for your application.
- Extensive SEL power system expertise provides correct programming, setting, and installation.
- Thorough factory acceptance testing reduces the field and commissioning time so you get the system online sooner.
- Replacing aging control and protection panels improves reliability and helps reduce operating costs.



The SEL Difference

Retrofitting and installing new relays is increasingly important because of reliability issues with legacy relay systems, the need to reduce operating costs, and the requirement to verify proper protective relay operations.

At SEL, we design, manufacture, test, and deliver protection, control, and metering panels as well as control cabinets and retrofit doors. Our unique capabilities make us well-suited to provide expert custom control and protection panel solutions. With vertical integration and experienced engineers, we can keep costs low while still meeting your unique requirements with the best designs. We also have multiple standard designs that are a result of supplying solutions to numerous customers.

SEL panels are supported by an unmatched ten-year warranty and the industry's best customer service. Our complete panel solution capabilities and designs include:

- Consulting and engineering design
- Panel manufacturing and testing
- Protection, automation, and control equipment programming
- Field service and onsite support
- Standard and custom cabinet designs
- Indoor and outdoor design
- Submersible cabinets for underground distribution and automation
- Lifetime customer support
- Customer training
- Detailed drawing packages

We Have the Know-How to Help You Succeed

Our power system expertise comes from years of hands-on experience. Local SEL engineers have the essential skills, knowledge, and resources to solve the tough problems others can't.

Get What You Want

Our designs are flexible, and so are we. SEL engineers can install an "all blue" SEL solution, or on request, we can incorporate third-party engineering and design.

Get Your Panels Online Sooner

We thoroughly test and validate panel connections, operations, and coordination in our factory—not in the field. This translates to less time spent onsite for commissioning and troubleshooting so you can get online sooner.



Our Thorough Approach—The Advantage of Experience

Each order is managed by an experienced project manager through design, manufacture, factory acceptance testing, and delivery. We can also manage installation and commissioning activities. This means you will have one point of contact throughout the entire project, making communication quick and easy.

Our designers work with the engineers and manufacturing team to develop complete documentation packages. We can also incorporate or manufacture solutions in accordance with third-party design documentation. Our flexible approach means we can provide the right solution, whether it is a retrofit upgrade or new equipment installation.

For retrofits of existing panels, we will replace obsolete protective devices with new, digital intelligent electronic devices (IEDs). SEL engineers provide the necessary documentation, settings, and other services to smoothly integrate with new and legacy systems so as not to interrupt operations.

We engineer and test our panels under one roof to ensure interoperability before the panels make it to the field. Our thorough approach eliminates any interface problems between separate devices. When an SEL panel arrives onsite, it is already verified as fully functional.

SEL standard designs have features and functions that satisfy a broad range of applications. Power systems typically expand over time, which is why our engineers leave room for additional IEDs and connections. We put connections in easy reach for technicians, and we label every wire at both ends to make connections obvious and to speed up troubleshooting. Our safety best practices include color-coding the wiring to indicate voltage and placing high- and low-voltage wires in separate conduits.

A single SEL custom control and protection panel can replace many individual, separately installed devices and enclosures. Consolidating and upgrading devices to the best available technology eliminates excessive inter-wiring, making the installation faster and easier. This approach simplifies the control architecture and improves reliability.

At SEL, we pride ourselves on being a total solution provider for our customers. We work with you to define the designs and services that are best-suited for your applications. Some projects may start with a marker and a blank whiteboard. Our expertise and experience means we can assist with each stage of your control and protection panel project, from planning to installation. With extensive engineering and manufacturing capabilities, we will produce complete control and protection panel projects to your specific requirements.



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