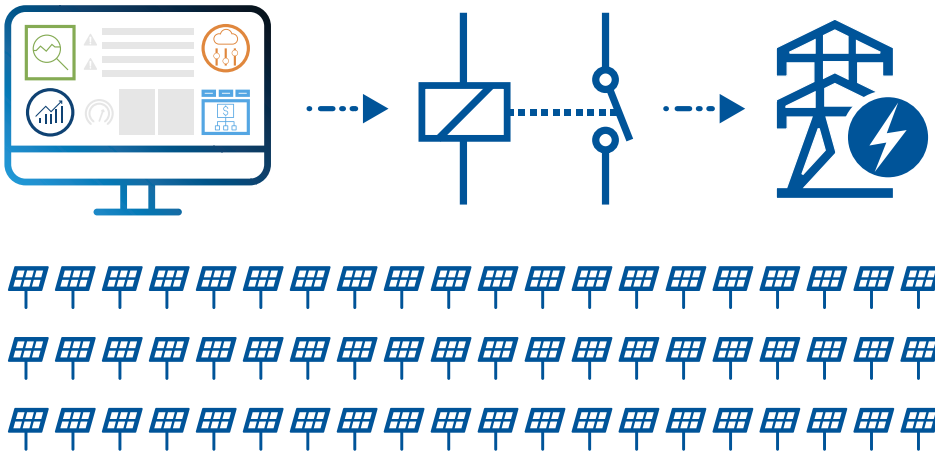


Power Plant Control

AlsoEnergy's vertically-integrated, edge-to-cloud platform includes a Power Plant Controller that provides power supervision and control of clean energy assets at the meter or interconnection point. Equipped with extensive control functionalities to optimize energy and financial performance, our Power Plant Controller meets the complex demands of utility-grade projects and grid interconnection requirements.



- Stand-alone Power Plant Controller
- Real-time open platform controller architecture (SEL RTAC)
- Controls for PV, storage, and PV+storage plants
- Utility and ISO telemetry over DNP3 or Modbus
- Optional local human-machine interface (HMI)
- High-speed control options available for challenging interconnects
- Seamless integration with PowerTrack
- Rack or panel-mount

Recommended for:

- Complex multi-mode control applications
- High reliability
- High speed control
- Storage
- Utility scale projects

Concurrent controls including:

- Reactive power control (i.e. voltage or PF control)
- Closed-loop curtailment
- Closed-loop ramp control
- Capacitor bank management
- Manual and soft-start switchgear control

AlsoEnergy's vertically-integrated platform ensures one-point of accountability from edge-to-cloud and throughout the asset lifetime. At the cloud level, PowerTrack, AlsoEnergy's flagship application for portfolio optimization, features advanced performance analytics and diagnostics, integrated CMMS job ticketing, and reporting, KPI, and aggregation tools for asset managers.

Specifications

GENERAL

Control capabilities	Simultaneous closed-loop voltage, power, ramp control. Capacitor bank control, switchgear, inverter, and tracker management.
Control rate	Support for sub-second control rates
Control command source	Local HMI, PowerTrack HMI, from SCADA
Operation	Stand-alone, mission-critical power plant controller independent of data acquisition system
PowerTrack support	Requires PowerManager 2200 or PowerServer3000
Platform	SEL3505, SEL3530, SEL3560, or SEL3555 depending on project requirements Schweitzer real-time automation controller using industry standard IEC 61131-3 PLC programming

INTERFACES

Ethernet	Minimum of 2 x 10/100/1000 ports
Primary protocols	Modbus TCP, Modbus RTU, DNP3, IEC61850, SNMP, IEEE C37.118, IEC60870-5-101/104, and others
Discrete I/O	Optional, varies by model selection
Display	Optional local web-based HMI
Serial Ports	Minimum of 3 serial ports

MECHANICAL

Mounting configuration	Outdoor enclosure mount, or 19" rack mount
Dimensions	Varies based on model selection

ENVIRONMENTAL RATING

Operating temperature	-40°C to 75°C
Storage temperature	-40°C to 85°C

ELECTRICAL

Input Voltage	24/48/125/250 VDC or 120/240 VAC; redundancy options available
Power consumption	Varies based on model selection
Surge protection	Hardened, substation-grade equipment backed by SEL

REGULATORY

Warranty	10-year warranty backed by SEL
Listings	Listed to applicable UL Standards; FCC Part 15 Subpart B Class A