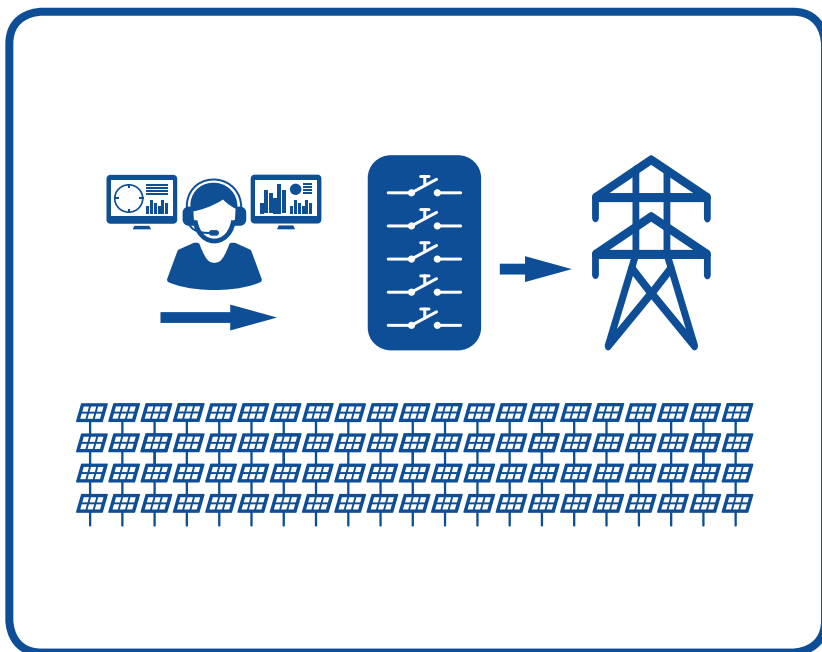


Power Plant Control by AlsoEnergy

Manage the most demanding interconnection requirements with AlsoEnergy's utility grade Power Plant Controller



- 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 PPC models available (PSS/E, Matlab, EMTP-RV and others)
- 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

End-to-end solutions from AlsoEnergy provide the convenience and security of a single source provider for hardware, software, services, and support over the project lifecycle. PowerTrack features include advanced performance analytics and diagnostics, integrated CMMS job ticketing, and fleet management tools for asset managers such as reports, KPI displays, and portfolio aggregations.

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 2000 or PowerServer3000
Platform	Schweitzer real-time automation controller using industry standard IEC 61131-3 PLC programming. SEL3505, SEL3530, or SEL3555 depending on project requirements

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