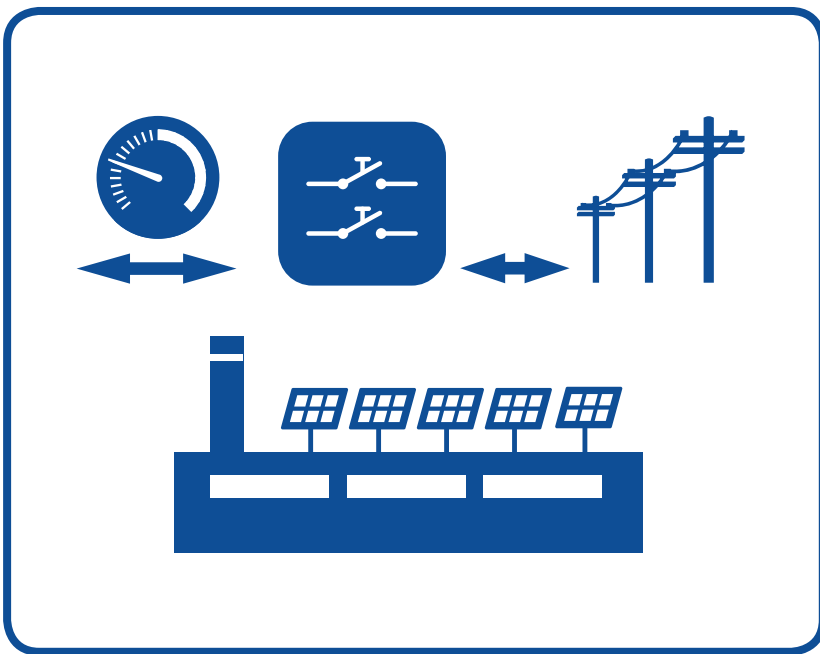


Expertly Engineered Solutions for Export Control

With growing penetration of renewables, grid export management is often required by local authorities. AlsoEnergy's customizable export control solution enables operators to maximize onsite production while ensuring that grid interconnection requirements are met.



- Cost effective control for distributed generation projects
- Full integration with PowerTrack software platform for analytics, diagnostics, CMMS, etc
- Advanced SCADA Server: integrated data collection and closed loop control functionality in one box
- Zero-net export control for self consumption PV projects requiring no export
- Optional fixed power factor control
- Individual inverter on/off/reset control
- Utility and ISO telemetry over DNP3 or Modbus
- Maximum export control solutions

Maximize Harvest

The PowerManager 2000 optimizes energy harvest by managing each inverter individually. If one inverter is down or underperforming, others in the fleet will ramp up to compensate (provided there is excess solar resource available).

Typical Export Control Systems Include:

- PowerManager 2000
- Production Meter RGM
- Demand Meter RGM (for zero net export)
- Engineering and Tuning Services
- Cell Modem
- Weather station

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 for Power Manager 2000

General

Devices supported	Up to 200 devices
Logging interval	Configurable down to 1 second
Offline storage	More than 4 months offline storage with 200 field devices logging at 1 minute intervals
Configuration	Remote automated configuration; local network setup
Software management	Remote software update capability
Tools support	Ability to use third party Windows-based tools through secure remote desktop connection
Local display	Supports local HMI and remote desktop access
Real-time HMIs	Supports configurable PowerTrack real time HMIs
Native control capabilities	External command input (Modbus or DNP3) for real-time or scheduled set points; zero net export restriction; maximum export limit; closed loop reactive power control; closed loop ramp rate control; closed loop grid voltage control
Telemetry	Customizable DNP3 or Modbus TCP upstream interface

Interfaces

Ethernet	2 x 10/100/1000 ports
Primary protocols	Modbus TCP, Modbus RTU, DNP3, HTTP, HTTPS, Telnet, FTP, SNT, SNMP, proprietary inverter protocols, RDP, VPN
Discrete I/O	Available with accessory
Display	VGA and HDMI ports for local display
Peripheral support	USB ports for keyboard and mouse

Mechanical

Mounting configuration	Outdoor enclosure mount
Dimensions	10.4" x 2.96" x 5.2"

Environmental Rating

Operating Temperature	-20°C to 60°C (-40°C to 75°C available)
Storage Temperature	-40°C to 85°C

Electrical

Input Voltage	12-24 VDC
Power Consumption	26W maximum, 10W typical
Surge protection	Designed with protection against transients and ESD for use in harsh environments

Regulatory

Warranty	Standard 5 year warranty
Listings	Listed to applicable UL Standards; FCC Part 15 Subpart B Class A

