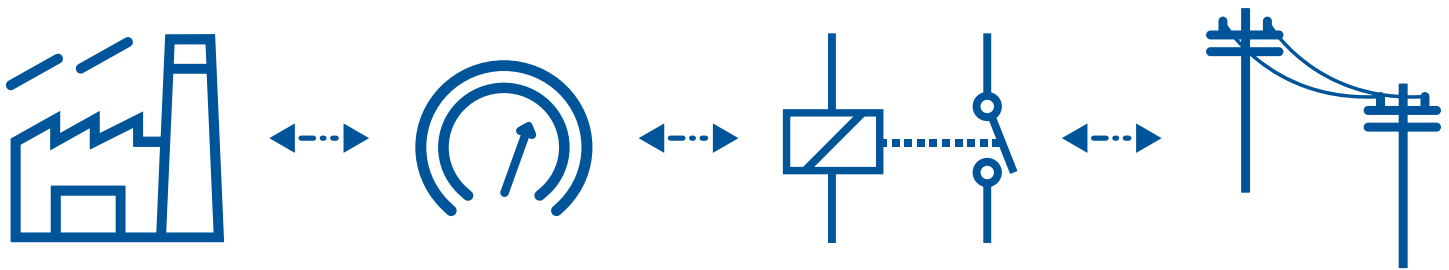


Export Control

With growing penetration of renewables, grid export management is often required by local authorities. Part of AlsoEnergy's edge-to-cloud platform, our 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 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 optimizes energy harvest by managing each inverter individually. If one inverter is down or underperforming, others will ramp up to compensate if excess solar resource are available.

Typical Export Control Systems include:

- PowerManager
- Production RGM
- Demand RGM (for zero net export)
- Engineering and tuning services
- Cell modem
- Weather station

The Export Control Solution is delivered as part of AlsoEnergy edge-to-cloud platform. Our 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.

Technical Data

POWERMANAGER	
Devices supported	12-30 VDC or 24 VAC, < 2VA
Logging interval	40-70 Hz nominal (30-300 Hz max)
Offline storage	20Vac - 347Vac L-N (600Vac L-L), (450Vac L-N, 780V L-L absolute max)
Configuration	12-30 VDC or 24 VAC, < 2VA
Software management	40-70 Hz nominal (30-300 Hz max)
Tools support	20Vac - 347Vac L-N (600Vac L-L), (450Vac L-N, 780V L-L absolute max)
Local display	5A nominal via 5A output CTs (10A max)
Native control capabilities	0.05Ω max
Telemetry	Voltage: AWG 30-12, (AWG 16-22 recommended); Current: AWG 24-12, (AWG 12-16 recommended for 5A CTs)

INTERFACES	
Ethernet	4 x 10/100/1000 ports
Primary protocols	Modbus TCP, Modbus RTU, DNP3, HTTP, HTTPS, Telnet, FTP, SNTP, SNMP, inverter protocols, RDP, VPN
Discrete I/O	4DI, 4DO
Display	1x VGA
Peripheral support	USB ports for keyboard and mouse

MECHANICAL	
Mounting configuration	Panel or DIN mount
Dimensions	132 x 122 x 87 mm (5.2 x 4.81 x 3.43 in)

ENVIRONMENTAL RATING	
Operating Temperature	-40 to 70°C (-40 to 158°F)
Storage Temperature	-45 to 75°C (-49 to 167°F)

ELECTRICAL	
Input Voltage	11.4 to 36 VDC
Power Consumption	30W maximum, 10W typical
Surge protection	Designed with protection against transients and ESD for use in harsh environments

REGULATORY	
Warranty	Standard 5 year warranty

LISTINGS			
EMC	EN 55032/24		
EMI	CISPR 32, FCC Part 15B Class A		
	IEC 61000-4-8 PFMF		
	IEC 61000-4-6 CS: 10 V		
	IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV		
	IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV		
EMS	IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m		
	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV		
	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV		
Display	ATEX Zone 2	Class I Division 2	IECEx Zone 2
Primary protocols	DNV-GL	IEC 60945	
Discrete I/O	FCC		
Peripheral support	UL 60950-1		

Technical data for PowerManager 2200; specifications may vary with device models

