



OPM-Box PowerControl

Omexom Power Management: telecontrol technology and power control in a single solution – for grid-compliant feed – in management and fast commissioning

Save time during project engineering and reduce risks in the commissioning of your PV plant – with or without battery storage. Together, we develop a complete concept in line with the technical requirements. You receive a fully pre-assembled cabinet system with all required components. You handle the on-site installation – we guide you through the certification process safely all the way to the commissioning of your plant.

Grid-compliant plant connection

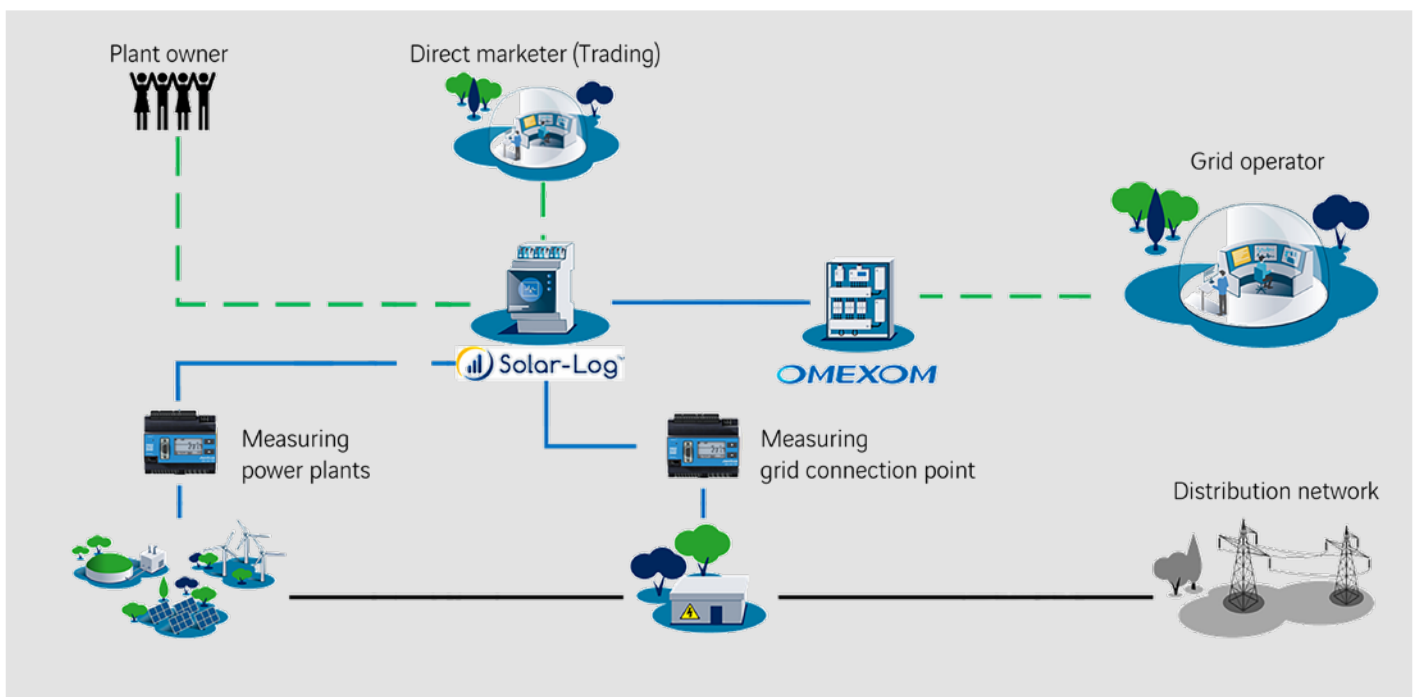
- Feed-in management in accordance with the latest EEG requirements, VDE guidelines (VDE-AR-N 4110/4120) and the Technical Connection Rules (TCR / TAR), including all required components
- Direct marketing concept with free choice of provider
- Manufacturer-independent control system, compatible with virtually any EEG (renewable energy) plant
- High quality and security standards in accordance with DIN ISO 9001 and DIN ISO 27001 with CE-compliant implementation

Benefit from our extensive **experience across numerous grid areas**. More than 1,000 successfully completed grid connections over the past 5 years demonstrate our track record including Solar-Log™ as a reference. The system is particularly well suited for extending existing plants including hybrid installations. Commissioning via remote access enables especially **short response times**.



Modular
Omexom
Power
Management
(OPM)

OPM-Box: a modular, standardised solution. **Precisely configured telecontrol cabinet acting as the link between grid operator and plant.** Solar-Log™ Base can be fully integrated into the OPM solution. Any additional hardware required can be supplied and integrated directly by us.



Technical Features

- ✓ LTE router incl. M2M SIM card for all networks
 - Remote access for fast commissioning
 - Connection to wide range of direct marketers
 - Enables connection to the Solar-Log™ Enerest portal
 - Security through an independent internet connection
 - SIM card transfer possible after commissioning
- ✓ Implementation of certified power plant control in accordance with VDE-AR-N 4110/4120 and the latest TCR (Technical Connection Rules)
- ✓ Fast and simple wiring
- ✓ Implementation of all communication protocols for remote telecontrol connection
- ✓ Standardised interfaces to third-party systems such as charging infrastructure, battery storage, etc.

Our Service Commitment

- Dedicated project contacts from planning through to commissioning of the entire plant
- Plant testing, certification, communication with the grid operator: achieve your goals faster with us
- We support your project as a reliable partner – on request also through changes and challenges, **until your plant is successfully connected to the grid**

Service Modules

- Certification documentation
- Grid connection point measurements
- Generating plant measurements
- Handling of direct marketing/trading
- Communication links (fibre optics, DSL, network)
- Engineering (hybrid plants, multi trading, remote plants ...)
- Plant protection

Base Modules

OPM Module	Description
OPM-Box Base	Cabinet incl. OPM controller & LTE
Telecontrol	Telecontrol connection to grid operator
PowerControl	Power control per VDE-AR-N 4110
Direct Marketing	Direct Marketing Integration
InverterGateway (Solar-Log™)	Integration and control of inverters via data logger

Erweiterungsmodule

OPM Module	Description
GeneratorConnect	Integration of other plant types (CHP)
BatteryConnect	Integration of battery storage systems
P _{AVE} -Limit	Feed-in limitation per P _{AVE} -regulation
ChargeConnect	Integration of charging infrastructure
GridProtect	Protection systems (e.g. üEKS)
UPS	Extension with battery backup
Cockpit	Local dashboard for plant analysis
Individuell	Control and device integration according to individual requirements

Omexom also offers further services and end-to-end solutions:

- Transformer station construction on site
- Protection testing & protection solutions
- Medium-voltage switching authorisation
- Installation, including medium voltage

Omexom Smart Technologies GmbH

Horlemannplatz 1, 47589 Uedem

+49 2825 89-321

smart-energy@omexom.com

omexom.de/smart-energy

