

## Product features and service concept



### PIKO battery inverter

- Module power of 4 - 11 kWp
- Charge controller and inverter in one casing
- Integrated energy management system
- CAN interface to the external storage's battery management system
- Provision of grid services, in particular reactive power, active power reduction according to VDE-AR-N 4105
- Feed-in in compliance with phase and to match demand
- Future-oriented as fully equipped for new storage concepts
- Integrated communication and monitoring system



### Battery storage system

- Proven lead/acid technology
- Total capacity 11 kWh
- Stationary, zero-maintenance, sealed battery storage
- 2.800 cycles at 50% DoD
- Nominal voltage 228 V
- External dimensions 900 mm x 400 mm x 1.600 mm (W x D x H)
- Integrated battery management system
- CAN interface to PIKO battery inverter
- Modular structure for easy installation



### Service concept

As with all PIKO string inverters, KOSTAL Solar Electric offers its proven five-year replacement warranty for the PIKO battery inverter too. Should a warranty claim be made within this period, you will receive a replacement unit from your specialist company delivered and commissioned, no questions asked. The specialist company will also arrange to take away the old PIKO inverter. For more information about our service offer and warranty conditions, please visit our homepage.

The service for batteries is provided by our partner, Hoppecke Batterien from Brilon (Germany). As a specialist in the production and integration of energy systems, Hoppecke provides professional battery maintenance and all associated services. Our partner also has a service network spanning Germany and Europe and handles return logistics for used batteries, meaning that they can be collected from you directly.

# KOSTAL

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SOLAR ELECTRIC

# KOSTAL

## PIKO Battery Inverter – smart, communicative and autonomous

Available from 2<sup>nd</sup> quarter 2013

Smart  
connections.

06/2012 – PRO PIKO BA – EN – 102939351

# KOSTAL family – the story behind the success. 100 years.



## The KOSTAL group: the success story of KOSTAL

- As an independent, family-run company, the KOSTAL group is specialised in the development of high-quality electronic and mechatronic solutions for a wide range of industrial and automobile applications.
- The company was founded in 1912 by Leopold Kostal in Lüdenscheid, Germany, and today employs about 13.300 people in 37 locations in a total of 17 countries.
- The KOSTAL group has four divisions: Automotive Electrical Systems, Industrial Electronics with its international sales company Solar Electric, Connectors and SOMA (Test Technology).
- The KOSTAL group's partners include the world's leading automobile manufacturers and numerous major industrial companies.

## Quality offensive thinking

- Having been developed in-house at KOSTAL, the PIKO battery inverter meets very high standards.
- All PIKO inverters are produced in line with state-of-the-art technological standards.
- All production processes are aligned to the „zero-error philosophy“ of an automobile supplier.
- The PIKO inverter undergoes strict quality checks, including a final check lasting several hours, throughout the production process.

## KOSTAL Solar Electric: a partner you can count on

- In the Industrial Electronics division, the PIKO inverters are developed and produced at the German headquarters. KOSTAL Solar Electric GmbH handles all the work involved in distributing the PIKO inverters as well as technical support.
- International customers benefit from a local service from our branch offices in France, Italy, Spain and Greece.
- KOSTAL partnerships are designed for the long term. This has always been and continues to be an essential element of our company culture.



## PIKO battery inverter with battery cabinet

Regular changes to legislation to promote renewable energies are resulting in the feed-in tariff falling all the time. This makes the use of self-produced solar energy increasingly attractive as it minimises your costs.

The energy management system integrated in the PIKO battery inverter is a useful tool. Taking account of financial and technical aspects, the system decides whether the electricity produced is fed to the mains grid, stored in the battery or used.

Upgrading our PIKO to a battery inverter means that when combined with an external battery storage, energy can be consumed even when solar energy is not being generated. The PIKO battery inverter is particularly useful for domestic consumption as it can provide not just a three-phase symmetrical feed but unsymmetrical too if required. To attain maximum functionality and safety from the battery storage system, the inverter uses the proven lead/gel technology. If managed correctly as an integrated battery management system, this technology ensures a good yield over a long period and no need for maintenance. The modular structure of the chosen battery storage system also provides a key benefit to installation.

All of these extra functions have been added to the PIKO battery inverter while retaining the proven benefits of the PIKO string inverter series. For example, the latest addition to the PIKO family offers a high degree of flexibility, e.g. two MPP trackers and a wide input voltage range. As a matter of course it also features the communication concept for PV system monitoring as standard. The compact design and low weight are also beneficial when handling and installing.

