

# System efficiency even for small PV systems thanks to best in test expertise

PIKO MP plus as a hybrid inverter: Generate and use solar power efficiently, even in smaller PV systems



# PV Inverters from KOSTAL

## PIKO MP plus Monophase 2.0 to 5 kw for PV, Self-consumption and Storage

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The PIKO MP Plus is an intelligent inverter that can evolve easily over time as your needs change; It comes with a free monitoring system via our portal or our App. Whether you just need a simple PV system, or a system that monitors your total home consumption, or both a PV and a storage system (hybrid), you don't need to change your PIKO MP plus inverter. Stay in Control!

Not sure whether you need a storage system? Here's how we can help you. Start off easy and evolve your system over time. Our inverters can evolve to meet your needs.

#### Step 1: Install a simple Grid Connected PV system.

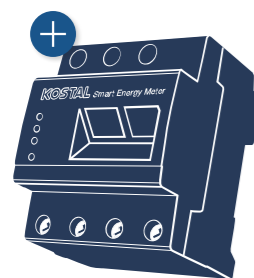
Start off with a simple PV system and monitor your production – daily, monthly, yearly easily. Use either our Smart Phone APP or free portal. Alternatively, you have all your production data conveniently displayed on the inverter's large screen for easy information as well as checking that the system is working ok.

#### Step 2: A PV System that monitors your total home consumption.

If you want to analyse your total home consumption data – how much energy you self-consume from your PV system, how much you inject into or take out of the grid, and when, simply add our Smart Energy Meter, the KSEM.

You now have **real information** to take informed decisions on where and when you can make energy savings, as well as whether or not to install a battery system.

The PIKO MP plus with a KSEM smart meter can also be programmed, if necessary, to ensure that no energy will be sent to the grid ('zero-injection' function).



Step 2



Step 3



#### Step 3: Add or battery (or decide not to).

You can then analyse your consumption data by using the 'Virtual Battery Simulation' function on our free App. You can decide which size battery, if any, is best suited to your real needs. **So you can make the right choice in the beginning.**

Our inverters are currently compatible with the BBox from BYD (HVS and HVM ranges). They also have a modular capacity, from 5.1 to 22.1 kWh. You can easily add additional battery modules at a later date if you need more capacity. Again – you stay in control.

To make a battery system you only need 4 items: the PIKO MP plus, the KSEM smart meter, the BYD battery system and an activation code to activate the battery – please contact us for more details.

## PIKO MP plus – Possible Configurations:

The PIKO MP plus comes with either 1 or 2 MPPT trackers depending on the power class.

For PIKO MP plus 2.0, 2.5, 3.0, 3.6 kW – 1 MPPT tracker only  
For PIKO MP plus 3.0, 3.6, 4.2, 5.5 kW – 2 MPPT trackers

The PIKO MP plus can be used as follows:

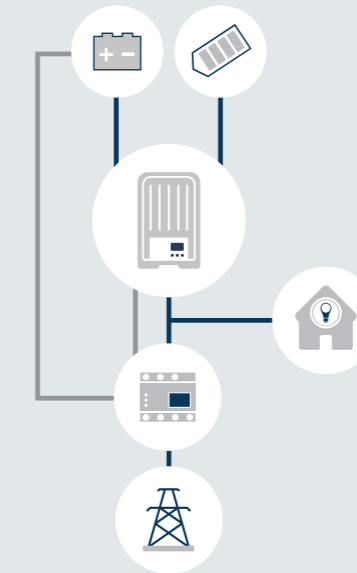
#### Solar power generation



#### As a Grid Connected PV Inverter

1 MPPT – 2.0 to 3.0 kW,  
2 MPPT – 3.0 to 5.0 kW  
Use both MPPT's for PV (eg East/West orientation) or use just 1 MPPT and keep the other MPPT free to install a battery at a later date.

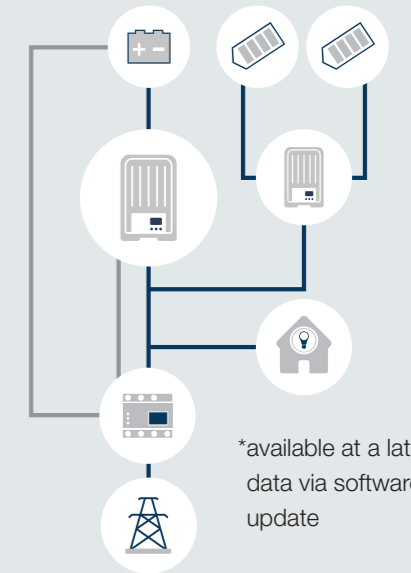
#### Solar power storage\*



#### As a grid connected Hybrid Inverter (PV and Storage)

For 2 MPPT – 3.0 to 5.0 kW  
1 MPPT for PV, 1 MPPT for the battery  
Use initially as a PV inverter and add later a storage system.

#### AC energy storage\*



\*available at a later date via software update

#### As a grid connected retrofitted AC battery inverter

Add a storage system to any existing monophase PV installation. (Any PIKO MP plus + KSEM Smart meter + Battery BYD). From 2.0 to 5.0 kW

#### An inverter ideal for replacement .

#### Need to replace a broken grid connected monophase inverter? We have the solution.

The PIKO MP Plus is ideal for replacement. The large voltage range (from ? ) and the large range of power classes makes the PIKO MP plus the perfect choice to replace virtually all most commonly used inverters. Use our easy to use repowering tool to check compatibility or contact us for friendly and professional advice.

#### Need to add a battery storage system to an existing PV Installation?

This is also possible. Regardless of the brand of the inverter already installed, you can add a storage system without modifying the existing system. For this you will need to add the PIKO MP plus , the smart meter KSEM, the BYD battery storage system. You will also need a battery activation code – contact us for details.

#### Installer Tips

We offer free advice, webinars and training programmes to help you at every stage with the installation as well as After-Sales. See our website for details or simply call us.



# KOSTAL – Your reliable partner, German Technology, Service in France

## Who is KOSTAL Solar Electric?

KOSTAL Solar Electric is part of the KOSTAL group, an international company specialising in providing high quality electronic and mechatronic solutions for the automotive and industrial sectors. Created in Germany in 1912, KOSTAL is still today an independent family-run group of companies employing over 19,000 people on 46 sites worldwide.

KOSTAL SOLAR Electric manufactures high quality, intelligent solar inverters, produced and designed in Germany to the strict quality standards of the group.

Present in France since 2009 through our subsidiary KOSTAL Solar Electric France, we offer sales and technical support to all European customers in French.



## Why choose KOSTAL String Inverters? What are the advantages?

We have been manufacturing quality string inverters now for over 15 years and are convinced that this technology is the most cost-effective in the long term. Our advantages are as follows:

- **High reliability.** The inverter can be installed inside which means that the electronic components are not subject to extreme weather conditions, as for micro-inverters. A constant temperature helps inverters to continue functioning correctly for a long time, reducing the risk of component failure.
- **Easy replacement.** In case of breakdown a string inverter can be economically and quickly replaced. Replacing a micro-inverter could become a costly and lengthy process, involving installing and dismantling scaffolding on the roof.
- **Instant detection of malfunction.** Whether via your App or via the inverter display screen, a malfunction is instantly detectable. Be alerted straight away.
- **Compatible with high Capacity Storage systems.** The PIKO MP plus range is compatible with the BYD modular storage system that can cover your energy needs in the evening and at night. Invest in a real storage system.
- **A European manufacturer's warranty.** As a company with over 100 years' experience we understand the importance of having a real manufacturer's warranty from a company that will be there for you in the future. As our history shows, we stand by our products and clients!

## KOSTAL Smart Warranty

Our inverters are guaranteed 2 years and we offer an extra 3 years if you register the inverter in our webshop. Once this is done you have the option to extend the warranty by a further 5, 10 or 15 years within the first 2 years of service.

## Become A Certified Installer

With KOSTAL you have a partner for every step of your PV installation: planning, commissioning, After-Sales issues, expanding the existing installation.

We also have a Certified Installer Programme that can offer you

- Privileged access to our technical support team
- End customer leads through having your address on our website as a certified installer,
- KOSTAL promotional material, data sheets, brochures for your sales activities
- KOSTAL certification logo on your website.

# Our Product Range

We can offer you a comprehensive range of inverters and different types: grid-connected inverters, battery inverters or hybrid (both PV and battery). In summary:

## Residential Monophase inverters:

- PIKO MP plus: from 2.0 to 5 kW. Either grid-connected, hybrid (PV and storage) or battery inverters.

## Residential / Small Commercial Threephase inverters :

- PLENTICORE plus : from 3.0 to 10 kW. Either grid-connected or hybrid (PV and storage). 3 trackers.
- PLENTICORE BI: 5.5 & 10 kW. Battery inverters.

## Commercial Inverters

- PIKO 10–20. From 10 to 20 kW. Grid connected.

## Project Inverters

- PIKO CI 30, 50 and 60 kW. Grid connected.

## In conclusion, what are the main advantages of our products?

Difficult to summarize in a few sentences but I would say the following

- 1 **Quality and reliability.** The KOSTAL group has been manufacturing high-quality products for more than 100 years. We are present in France since 2009. We offer proven German technology and design with a European manufacturer's warranty.
- 2 **Free monitoring.** We offer free access to our new Solar Portal and App for professional and end client monitoring. Monitor your Production and Total Home Consumption when combined with our Smart meter, the KSEM.
- 3 **A residential range that can evolve easily.** For our PIKO MP plus and PLENTICORE Plus ranges, start with a simple PV installation. After this you can add our Smart Meter, the KSEM, which will enable you to monitor your total house consumption, and see how much energy you consume directly from PV and how much from the grid. You can then use this information in the future to decide if you need a battery storage system or not, depending on your consumption profile, and what size storage system matches best your needs. All this without having to change the inverter! **Make an informed choice!**
- 4 **Commercial inverters PIKO 10–20.** With up to 3 MPPT Trackers and a large voltage range, these inverters are ideal for revamping projects. We have developed a special tool – the Solar Repower check to do a quick and easy re-dimensioning. [Please click here.](#)
- 5 **Reliable project inverters 30–60.** Our new range PIKO CI 30, 50 & 60 is ideal for the French mid-size segment 36 to 300 kW. The powerful combination of KOSTAL service, reliability and competitive pricing will allow you to succeed in this high growth market.

Contact us for further information.

# KOSTAL

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Smart  
connections.