

KOSTAL<sup>+</sup>ize

your energy



## PIKO 12-20

The variable solar inverter  
for the larger roof

## KOSTAL: always delivering that plus

Large PV systems require reliable and powerful inverters that can be smartly networked with one other and deliver high efficiency. This makes the KOSTAL PIKO 12-20 inverter perfectly suited to large roof areas or commercial applications.

**Smart:** Self-learning shadow management ensures maximum yields

**Variable:** The wide input voltage and power range enables flexible string design and variable roof layout

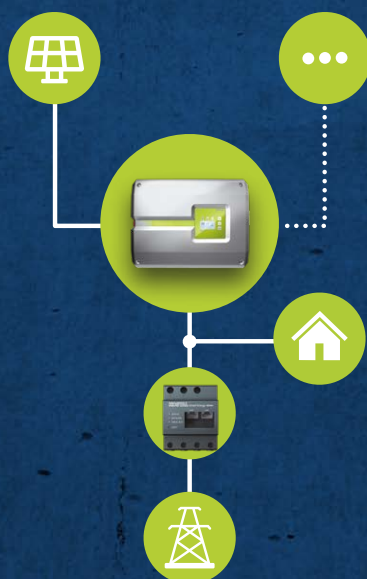
**Convenient:** The visual display shows information at a glance and allows configuration and data preparation

## Performance features

The PIKO 12-20 is suitable for a wide range of roof alignments and challenges. The MPP trackers operate independently and ensure that the system is always operated optimally in almost any combination – for both private and commercial PV systems.

- ✚ 2 or 3 independently operating MPP trackers
- ✚ Can be installed indoors and outdoors (IP 65)
- ✚ Device display for convenient operation
- ✚ Communication package containing data logger, system monitoring and Webserver integrated as standard
- ✚ Simple communication via 2-way LAN interface with integrated switch
- ✚ Integrated switch contact for self-consumption optimisation
- ✚ Integrated DC switch
- ✚ Multiple-inverter connection possible with KOSTAL Smart Energy Meter
- ✚ Quick and tool-free AC and DC installation
- ✚ Easy layout design with KOSTAL Solar Plan

# The PIKO 12-20 delivers impressive flexibility and adaptability.



Featuring up to three MPP trackers working independently of each other, every solar module alignment can be operated optimally and efficiently. The self-learning shadow management enables optimum operation even if the solar generator is temporarily shaded without the need for additional components.

## Technical information

|             |  | PIKO 12-20 |                  |             |      |    |
|-------------|--|------------|------------------|-------------|------|----|
| Input (DC)  | Power class  |            | 12               | 15          | 17   | 20 |
|             | Max. PV power (cos φ = 1)  | kWp        | 18               | 22.5        | 25.5 | 30 |
|             | Input voltage range (U <sub>DCmin</sub> - U <sub>DCmax</sub> )                 | V          | 160...1000       |             |      |    |
|             | MPP working voltage range (U <sub>MPPworkmin</sub> - U <sub>MPPworkmax</sub> ) | V          | 180...800        |             |      |    |
|             | Number of DC inputs  |            | 2                | 3           |      |    |
|             | Number of independent MPP trackers   |            | 2                | 3           |      |    |
| Output (AC) | Max. apparent output power, cos φ <sub>adj</sub>                               | kVA        | 12               | 15          | 17   | 20 |
|             | Grid connection  |            | 3N~, 400V, 50 Hz |             |      |    |
|             | Setting range of the power factor (cos φ <sub>AC,r</sub> )                     |            | 0.8...1...0.8    |             |      |    |
| System data | Max. efficiency  | %          | 97.7             | 98.0        |      |    |
|             | Protection class according to EN 60529   |            | IP 65/IP 55      |             |      |    |
|             | Height / width / depth   | mm         | 445/580/248      | 540/700/265 |      |    |
|             | Weight   | kg         | 37.5             | 48.5        |      |    |
|             | Ambient temperature  | °C         | -20...60         |             |      |    |
| Interfaces  | Ethernet LAN TCP/ IP (RJ45)  |            | 2                |             |      |    |
|             | RS485  |            | 1                |             |      |    |
|             | Analogue inputs  |            | 1                |             |      |    |
|             | KOSTAL Smart AC Switch   |            | No               | Yes         |      |    |
|             | Warranty (Smart Warranty/Smart Warranty plus <sup>1)</sup> )                   | Years      | 10 (5+5)         |             |      |    |

1) Activate your free warranty (Smart Warranty) now in the KOSTAL Solar online shop (shop.kostal-solar-electric.com). This does not affect your statutory warranty. You will find more information about the service and warranty conditions in the download area for your product. Subject to technical changes. Errors excepted.

Explore the KOSTAL product portfolio and discover its wide range of applications.

You can find more information at [www.kostal-solar-electric.com](http://www.kostal-solar-electric.com)

