KOSTAL
Solar Electric

Ecological thinking

Quality

Independence

...with the PIKO inverters

- Elimination of sensitive components increases the quality and durability of PIKO
- Prevention of voltage asymmetries in the grid by means of three-phase grid feeding
- Installation-friendly, due to weight reduction in every power class

Products in the PIKO family:


PIKO 4.2


PIKO 5.5


PIKO 8.3


PIKO 10.1

PIKO 10.1 inverter

"If a man takes no thought about what is distant, he will find sorrow near at hand."
(Confucius, 551 – 479 B.C., Chinese philosopher)

KOSTAL Solar Electric GmbH is already thinking about the future and, with our PIKO inverters, we want to make a contribution to safeguarding the future for all of us. With the PIKO family, we offer you a small piece of independence from the risks which the energy market holds. At the same time, these inverters are an expression of ecological thinking, which is necessary in order to provide for future generations – and this with consistently high quality across all PIKO power classes.

Shape the future with us!

PIKO 10.1

Technical data

The technical specifications detailed in this data sheet are suitable for Central European product applications only.

Last revised 05/2008

Input side (DC)	
Recommended PV output	11 kWp
MPP input voltage range	180 – 850 V
Max. input voltage	950 V
Number of MPP trackers	3
Max. input current (with parallel connection)	12.5 A (25 A)
Rated DC current (with parallel connection)	11.5 A (23 A)
Feed-in from	40 W

Output side (AC)	
Rated AC power	9.2 kW
Max. AC output	10.1 kW
Rated AC current	13 A [1]
Max. AC current	14.6 A [1]

Consumption	
Standby consumption	< 1 W
Consumption at night	< 1 W

Efficiency ratings	
Maximum efficiency	96.0 %
European-standard efficiency	95.1 %
MPP adaptation efficiency	99.9 %

System data	
Conversion principle	transformerless, three-phase supply
Monitoring	automatic disconnection device (MSD) with three-phase grid monitoring according to DIN VDE 0126-1-1:2006-02
Overvoltage category	III
All-pole isolator	grid relay, double implementation
Ambient temperature	-20 to +40 °C, Derating: +40 to +60 °C
Relative humidity	0 to 95 %
Protection degree	IP 55
Reverse polarity protection	through short circuit diode
Personal protection	earth fault monitoring; all-pole-sensitive residual current monitoring I > 30 mA ensures additional personal protection
Hardware interfaces	Ethernet (RJ45); RS485; pulse output 2,000 pulses/kWh, four analogue inputs 0…10V, SO input, potential-free alarm switch
CE conformity	EN 50178; EN 61000-3-2; EN 61000-6-2/3
Data storage unit	integrated as standard (capacity up to 1 year)
Data visualisation	integrated into the device and accessible via a standard Internet browser
Weight	34 kg
Dimensions (W x H x D)	520 mm x 450 mm x 230 mm
Manufacturer's warranty	see our separately attached warranty conditions

Configurable for:

Belgium, Germany, France, Greece (mainland/islands), Italy, Luxembourg, the Netherlands, Portugal, Switzerland, Spain

Contact

KOSTAL Solar Electric GmbH
Hanferstr. 6
79108 Freiburg i. Br., Germany
Tel. +49 761 703870-0
Fax +49 761 703870-19
www.kostal-solar-electric.com

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1) per phase

Manufacturer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany