



Smart
connections.

Data sheet

PIKO 3.0
KOSTAL Inverter single-phase

3.0

Inverter PIKO 3.0

- Single-phase feed-in
- Transformerless topology
- Datalogging and diverse interfaces as standard: Ethernet, RS485, S0 input and output
- Integrated electronic DC circuit breaker
- Lead-free production according to EU Directive on RoHS



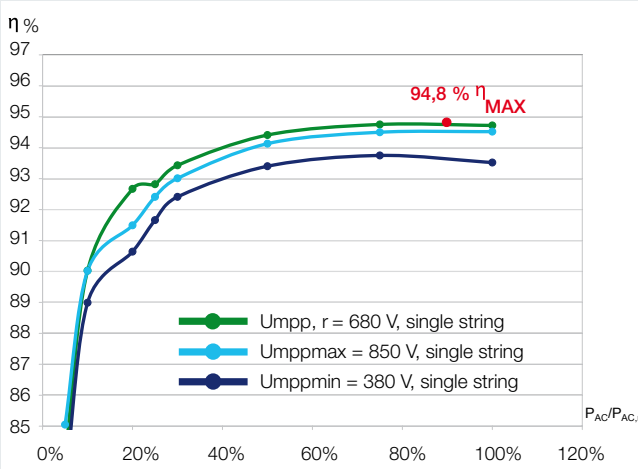
PIKO 3.0

Technical data

Input side (DC)

Number of DC inputs / number of MPP trackers	1/1
Max. recommended DC power	3200 W
Max. input voltage (open circuit voltage)	950 V
Min. input voltage	180 V
Start-up input voltage	180 V
Rated input voltage	680 V
Max. MPP voltage at inverter DC rated power	850 V
Min. MPP voltage U_{mppmin} , at inverter DC rated power	380 V
Extended, lower MPP voltage range, at partial performance of the inverter	180 V ... U_{mppmin}
Max. percentage of DC power to be transferred in the extended MPP voltage range	approx. 70 %
Max. input current	9 A

Efficiency rate characteristic curves



Output side (AC)

Number of feed-in phases	1
Grid voltage	1/N/PE, AC, 230 V
Uacmax, upper voltage switch-off limit	253 V (ES), 255 V (AT), 264.5 V (BE, CH, CZ, DE, GR, LU, NL, FR, PT), 276 V (IT)
Uacmin, lower voltage switch-off limit	184 V (AT, BE, CH, DE, GR, LU, IT, NL, FR), 195.5 V (ES, CZ, PT)
Max. output current	13.1 A
Rated AC output	2800 W
Max. AC power	3000 W
Max. efficiency	94.8 %
European-standard efficiency	93.6 %
Nominal frequency	50 Hz
Min. grid frequency f_{min} ; switch-off limit	47 Hz (AT, PT), 47.5 Hz (DE, CH, FR, HU, BE), 48 Hz (NL), 49 Hz (ES), 49.7 Hz (IT), 49.5 Hz (GR, CZ)
Max. grid frequency f_{max} ; switch-off limit	50.2 Hz (DE, CH), 50.3 Hz (IT), 50.5 Hz (GR, CZ), 51 Hz (HU, NL, ES, AT, FR, BE, PT)
Power loss at night	< 1 W
Protection class	I
Galvanic isolation	Transformerless
Nom. reactive power factor Cos phi	1
Type of grid monitoring	MSD, Frequency shifting
Reverse polarity protection	Short circuit diode at DC side
Personal protection	Universal current sensitive residual current circuit breaker and earth fault monitoring
Operational conditions	interior + exterior
Ambient temperature	-20°... 60° C
Max. ambient temperature at P. rated	40° C
Max. humidity	0 ... 95 %
Type of cooling	Regulated ventilation
Max. sound	< 33 dBA
Ingress protection according to IEC 60529	IP 55
Connection technology at input side	MC 4
Connection technology at output side	Spring-loaded terminal strip
Dimensions (W x D x H)	420 x 211 x 350 mm ³
Weight	19.8 kg
Disconnection device	Integrated electronic circuit breaker

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Contact

KOSTAL Solar Electric GmbH
Hanferstr. 6
79108 Freiburg i. Br.
Germany
Tel. +49 761 7038 70-0
Fax +49 761 7038 70-19
www.kostal-solar-electric.com



Configurable for: Deutschland, España, Portugal, France, Italia, Suisse, Belgique, Luxembourg, Nederland, Česká republika, Ελληνική Δημοκρατία

Manufacturer's Declaration of Conformity: CE marc: EMV-Directive 2004/108/EC: DIN EN 61000-3-2, EN 61000-3-3, DIN EN 61000-6-2, DIN EN 61000-6-3, Low Voltage Directive, 2006/95/EC, DIN EN 50178
MSD document of compliance: Automatic switching device with three-phase (PIKO 3.0/3.6 single-phase), grid monitoring according to DIN V VDE V, 0126-1-1:2006-02, Test principles: DIN V VDE V 0126-1-1, (VDE V 0126-1-1):2006-02 and „Independent generation systems on the low voltage grid“
Document of compliance integrated electronic circuit breaker: IEC 60947-3:1999; DIN EN 60947-3: VDE 0660-107:2006-03, Low voltage switchgear Part 3: load switches, circuit breakers, load circuit breakers and switch fuse units; IEC 60364-7-712:2002-05; DIN VDE 0100-712:2006-06
Producer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany