

02/2013

EN

Smart
connections.

Data sheet

PIKO 3.0

3.0

Technical data PIKO 3.0



- Single-phase feed-in
- Transformerless converting
- An ergonomically designed casing for easy handling
- Broad input voltage range
- Integrated switch contact for internal consumption control
- Integrated robust electronic DC switch
- Integrated data logger and web server for system monitoring
- Various communication interfaces integrated as a standard: 2 x Ethernet (integrated switch), RS485, S0, 4 x analogue inputs (e.g. for ripple control receivers)
- Graphic display with 3-button operating concept

Input side (DC)

		PIKO 3.0
Inverter type		PIKO 3.0
Max. PV power	kW	4.3
Rated input voltage (U _{dc,r})	V	400
Max. input voltage (U _{dc,max})	V	900
Min. input voltage (U _{dc,min})	V	160
Start input voltage (U _{dc,start})	V	180
Max. MPP voltage (U _{mpp,max})	V	730
Min. MPP voltage with DC rated output in single-tracker operation (U _{mpp,min})	V	270
Min. MPP voltage with DC rated output in dual-tracker or parallel operation (U _{mpp,min})		-
Max. input current (I _{dc,max})	A	12.5
Max. input current with parallel connection	A	-
Number of DC inputs		1
Number of independent MPP trackers		1

Output side (AC)

Rated output, cos φ = 1 (P _{ac,r})	kW	3
Max. output apparent power cos φ, adj	kVA	3
Max. output voltage (U _{ac,max})	V	264.5
Min. output voltage (U _{ac,min})	V	184
Rated output current	A	13
Max. output current (I _{ac,max})	A	13.7
Short-circuit current (peak)	A	26.4
Grid connection		1/N/PE, AC, 230 V
Rated frequency (f _r)	Hz	50
Setting range of the power factor cos φ _{ac,r}		0,9...1...0,9
Max. total harmonic distortion	%	≤3

Device properties

Max. night-time consumption of inverters	W	0.1
Max. night-time consumption of communication board	W	1.6

Degree of efficiency

Max. efficiency	%	96.2
European efficiency rate	%	95.5

Warranty

Warranty (years)		5
Warranty extension optional (years)		10/20

This manual is subject to technical changes and printing errors.
 You can find current information at www.kostal-solar-electric.com.
 Manufacturer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany

Contact

KOSTAL Solar Electric GmbH
 Hanferstr. 6
 79108 Freiburg
 Germany
 Tel. +49 761 477 44 - 100
 Fax +49 761 477 44 - 111
www.kostal-solar-electric.com

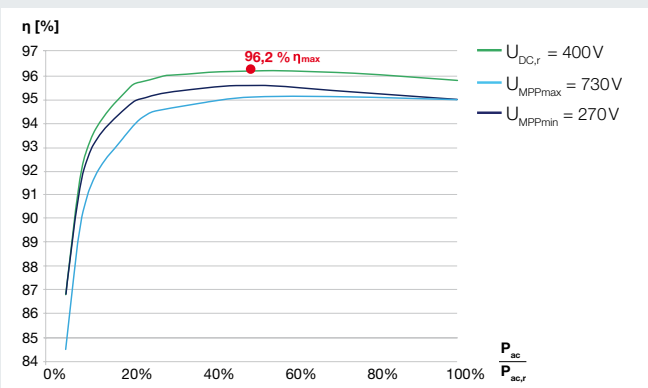
System data

Topology: Without galvanic separation - transformerless		✓
Internal protection according to IEC 60529		IP 55
Protection class according to IEC 62103		I
Surge category according to IEC 60664-1 Input side (PV generator)		II
Surge category according to IEC 60664-1 Output side (grid connection)		III
Degree of contamination		3
Environmental category (outdoor installation)		✓
Environmental category (interior installation)		✓
UV resistance		✓
Minimum cable cross-section of AC connecting line	mm ²	1.5
Minimum cable cross-section of DC connecting line	mm ²	4
Min. fusing on output side		B16, C16
Operator protection		RCCM type B 30mA
Electronic disconnection device integrated		✓
Height	mm	385
Width	mm	500
Depth	mm	222
Weight	kg	22
Cooling principle - convection		✓
Cooling principle - regulated fans		-
Max. air throughput	m ³ /h	-
Max. noise emission	dBA	< 33
Ambient temperature	°C	-20...60
Max. installation altitude above sea level	m	2000
Relative humidity (non-condensing)	%	0...95
Connection technology at input side - MC 4		✓
Connection technology at output side - spring-loaded terminal strip		✓

Various interfaces

Ethernet RJ45		2
RS485		1
S0		1
Analogue inputs		4

Efficiency rate characteristic curves PIKO 3.0



Smart connections.