



Smart
connections.

Data sheet

PIKO 2.0 MP

2.0

Technical data PIKO 2.0 MP



- Single-phase feed-in
- Transformerless conversion
- Wide input voltage range
- Long life cycle thanks to effective cooling technology
- Standard integrated communication package with data logger, web server and solar
- Simple menu-guided operation and installation
- Light weight
- Convenient connection area and integrated DC switch
- Energy meters can be integrated

Input side (DC)

Max. PV power ($\cos \varphi = 1$)	kWp	2.5
Rated input voltage ($V_{DC,r}$)	V	255
Max. input voltage (V_{DCmax})	V	420
Min. input voltage (V_{DCmin})	V	75
Start-up input voltage ($V_{DCstart}$)	V	90
Max. MPP voltage (V_{MPPmax})	V	350
Min. MPP voltage for DC rated output in single tracker mode (V_{MPPmin})	V	180
Min. MPP voltage for DC rated output in two-tracker mode (V_{MPPmin})	V	-
Max. input current (I_{DCmax})	A	11.5
Max. input current with parallel connection (input DC1+DC2)	A	-
Number of DC inputs		1
Number of independent MPP trackers		1

Output side (AC)

Rated output, $\cos \varphi = 1$ ($P_{AC,r}$)	kW	2.0
Max. output apparent power, $\cos \varphi, adj$	kVA	2.0
Max. output voltage (V_{ACmax})	V	276
Min. output voltage (V_{ACmin})	V	185
Rated output current	A	8.7
Max. output current (I_{ACmax})	A	12
Short-circuit current (peak / RMS)	A	27/12
Grid connection		1~, AC, 230V
Rated frequency (f_r)	Hz	50
Max. grid frequency (f_{max})	Hz	65
Min. grid frequency (f_{min})	Hz	45
Setting range of the power factor $\cos \varphi_{AC,r}$		0.95...1...0.95
Power factor for rated power ($\cos \varphi_{AC,r}$)		1
Max. total harmonic distortion	%	<2

Device properties

Standby consumption	W	<4
---------------------	---	----

Efficiency

Max. efficiency	%	98
European efficiency	%	97.5
MPP adjustment efficiency	%	99.7

Warranty

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

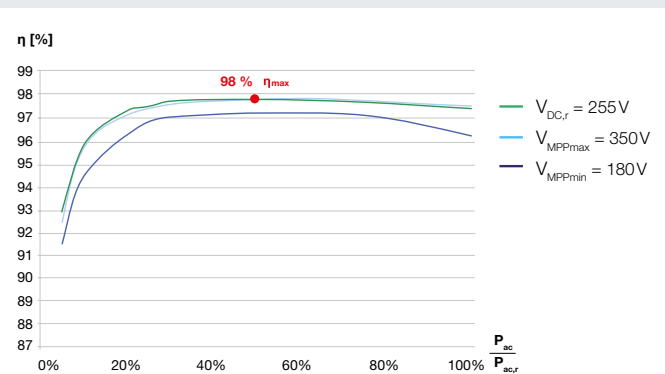
System data

Topology: Without galvanic separation - transformerless			✓
Internal protection according to IEC 60529			IP 21
Protective class according to IEC 62103			II
Overvoltage category according to IEC 60664-1 Input side (PV generator)			II
Overvoltage category according to IEC 60664-1 Output side (grid connection)			III
Pollution Degree			3
Environmental category (outdoor installation)			-
Environmental category (interior installation)			✓
UV resistance			-
Minimum cable cross-section of AC connecting line	mm ²	2.5	
Minimum cable cross-section of DC connecting line	mm ²	2.5	
Max. fusing on output side			B16
Operator protection (EN 62109-2)			RCMU/RCCB Typ B
Electronic disconnection device integrated			✓
Height	mm	608	
Width	mm	340	
Depth	mm	222	
Weight	kg	8.3	
Cooling principle - convection			-
Cooling principle - regulated fans			✓
Max. air throughput	m ³ /h	-	
Max. noise emission	dBA	29	
Ambient temperature	°C	-15...60	
Max. installation altitude above sea level	m	2000 (6562 ft)	
Relative humidity	%	0...95	
Connection technology at input side - Phoenix Contact SUNCLIX			✓
Connection technology at output side - Plug Wieland RST25i3			✓

Interfaces

Ethernet (RJ45)		1
RS485 (RJ45)		2
Modbus RTU (RJ10)		1
Analogue inputs		-
PIKO BA Sensor Interface		-

Efficiency characteristics of PIKO 2.0 MP



Smart connections.

Contact

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