



Smart  
connections.

Data sheet

PIKO 4.2 MP

4.2

# Technical data PIKO 4.2 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	5.2
Rated input voltage ( $V_{DC,r}$ )	V	540
Max. input voltage ( $V_{DCmax}$ )	V	845
Min. input voltage ( $V_{DCmin}$ )	V	350
Start-up input voltage ( $V_{DCstart}$ )	V	350
Max. MPP voltage ( $V_{MPPmax}$ )	V	700
Min. MPP voltage for DC rated output in single tracker mode ( $V_{MPPmin}$ )	V	350
Min. MPP voltage for DC rated output in two-tracker mode ( $V_{MPPmin}$ )	V	-
Max. input current ( $I_{DCmax}$ )	A	12
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	4.2
Max. output apparent power, $\cos \varphi, adj$	kVA	4.2
Max. output voltage ( $V_{ACmax}$ )	V	276
Min. output voltage ( $V_{ACmin}$ )	V	185
Rated output current	A	18.3
Max. output current ( $I_{ACmax}$ )	A	18.5
Short-circuit current (peak / RMS)	A	47/18.5
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
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## Efficiency

Max. efficiency	%	98.6
European efficiency	%	98.3
MPP adjustment efficiency	%	99.7

## Warranty

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

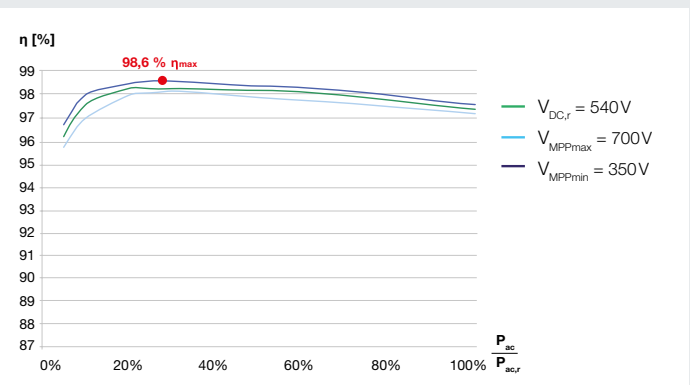
## System data

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 <sup>2</sup>	4	
Minimum cable cross-section of DC connecting line	mm <sup>2</sup>	2.5	
Max. fusing on output side			B20
Operator protection (EN 62109-2)			RCMU/RCCB Typ B
Electronic disconnection device integrated			✓
Height	mm	608	
Width	mm	340	
Depth	mm	222	
Weight	kg	9.1	
Cooling principle - convection			-
Cooling principle - regulated fans			✓
Max. air throughput	m <sup>3</sup> /h	-	
Max. noise emission	dBA	31	
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 4.2 MP



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## Contact

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