

Smart  
connections.

Data sheet

PIKO 15

15

# Technical data PIKO 15



- 3-phase feed-in
- Transformerless converting
- Integrated electronic DC switch
- Broad input voltage range
- Standard integrated communication package with data logger, web server, solar portal and the following interfaces: 2x Ethernet, RS485, S0, 4x analogue inputs (e.g. for ripple control receivers or PIKO Sensor)
- PIKO BA Sensor can be connected for the measurement of building consumption and for dynamic active power control
- Integrated switch contact for self-consumption optimisation
- Smart Home and EEBus compatible

## Input side (DC)

Max. PV power ( $\cos \varphi = 1$ )	kWp	16.9
Rated input voltage ( $V_{DC,r}$ )	V	680
Max. input voltage ( $V_{DC,max}$ )	V	1000
Min. input voltage ( $V_{DC,min}$ )	V	160
Start-up input voltage ( $V_{DC,start}$ )	V	180
Max. MPP voltage ( $V_{MPP,max}$ )	V	800
Min. MPP voltage for DC rated output in single tracker mode ( $V_{MPP,min}$ )	V	–
Min. MPP voltage for DC rated output in two-tracker mode ( $V_{MPP,min}$ )	V	390
Min. MPP voltage for DC rated output in three-tracker mode ( $V_{MPP,min}$ )	V	sym.: 260/260/260, unsym.: 325/325/250
Max. input current ( $I_{DC,max}$ )	A	sym.: 20/20/20, unsym.: 20/20/10
Max. input current with parallel connection (input DC1+DC2/DC3)	A	40/20
Number of DC inputs		3
Number of independent MPP trackers		3

## Output side (AC)

Rated output, $\cos \varphi = 1$ ( $P_{AC,r}$ )	kW	15
Max. output apparent power, $\cos \varphi_{adj}$	kVA	15
Max. output voltage ( $V_{AC,max}$ )	V	264.5
Min. output voltage ( $V_{AC,min}$ )	V	184
Rated output current	A	21.7
Max. output current ( $I_{AC,max}$ )	A	24.2
Short-circuit current (peak/RMS)	A	42/28.5
Grid connection		3N~, AC, 400 V
Rated frequency ( $f_r$ )	Hz	50
Max. grid frequency ( $f_{max}$ )	Hz	51.5
Min. grid frequency ( $f_{min}$ )	Hz	47.5
Setting range of the power factor $\cos \varphi_{AC,r}$		0.80...1...0.80
Power factor for rated power ( $\cos \varphi_{AC,r}$ )		1
Max. total harmonic distortion	%	3

## Device properties

Standby consumption	W	2.15
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## Efficiency

Max. efficiency	%	98.0
European efficiency	%	97.2
MPP adjustment efficiency	%	99.9

## Warranty

Warranty (years)		5
Warranty extension optional (years)		10/15/20

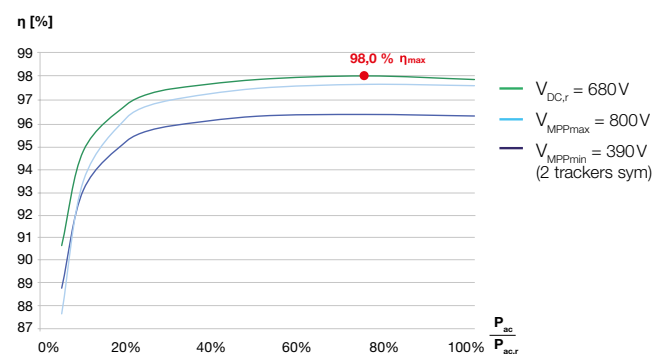
## System data

Topology: Without galvanic separation - transformerless		✓
Internal protection according to IEC 60529 housing / fan		IP 65 / IP 55
Protective class according to IEC 62103		I
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		4
Environmental category (outdoor installation)		✓
Environmental category (interior installation)		✓
UV resistance		✓
Minimum cable cross-section of AC connecting line	mm <sup>2</sup>	6
Minimum cable cross-section of DC connecting line	mm <sup>2</sup>	4
Max. fusing on output side		B32, C32
Operator protection (EN 62109-2)		RCMU/RCCB Typ B
Electronic disconnection device integrated		✓
Height	mm	540 (21.26 in)
Width	mm	700 (27.56 in)
Depth	mm	265 (10.43 in)
Weight	kg	48.5 (106.9 lb)
Cooling principle - convection		–
Cooling principle - regulated fans		✓
Max. air throughput	m <sup>3</sup> /h	2x84
Max. noise emission	dBA	56
Ambient temperature	°C	-20...60 (-4...140 °F)
Max. installation altitude above sea level	m	2000 (6562 ft)
Relative humidity	%	4...100
Connection technology at input side		SUNCLIX
Connection technology at output side - spring-loaded terminal strip		✓

## Interfaces

Ethernet RJ45		2
RS485		1
S0		1
Analogue inputs		4
PIKO BA Sensor Interface		1

## Efficiency characteristics of PIKO 15



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## Contact

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