

Smart
connections.

Data sheet

PIKO 17

17

Technical data PIKO 17



- 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-ready, EEBus 1.0-ready

Input side (DC)

Max. PV power ($\cos \varphi = 1$)	kWp	19.2
Rated input voltage ($U_{DC,r}$)	V	680
Max. input voltage ($U_{DC,max}$)	V	1000
Min. input voltage ($U_{DC,min}$)	V	160
Start-up input voltage ($U_{DC,start}$)	V	180
Max. MPP voltage ($U_{MPP,max}$)	V	800
Min. MPP voltage for DC rated output in single tracker mode ($U_{MPP,min}$)	V	-
Min. MPP voltage for DC rated output in two-tracker mode ($U_{MPP,min}$)	V	440
Min. MPP voltage for DC rated output in three-tracker mode ($U_{MPP,min}$)	V	290
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	17
Max. output apparent power, $\cos \varphi, adj$	kVA	17
Max. output voltage ($U_{AC,max}$)	V	264.5
Min. output voltage ($U_{AC,min}$)	V	184
Rated output current	A	24.6
Max. output current ($I_{AC,max}$)	A	27.4
Short-circuit current (peak/RMS)	A	41.3/29
Grid connection		3/N/PE, AC, 400V
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

Max. total night-time consumption (own requirements standby)	W	2.15
Max. night-time consumption of communication board	W	2

Efficiency

Max. efficiency	%	98.0
European efficiency	%	97.3
MPP adjustment efficiency	%	99.9

Warranty

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

Contact

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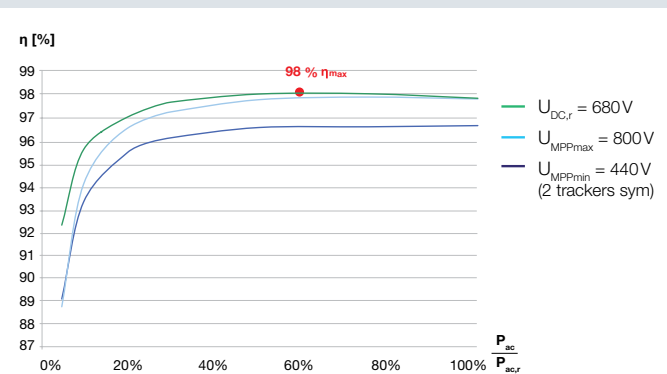
System data

Topology: Without galvanic separation - transformerless		✓
Internal protection according to IEC 60529		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
Degree of contamination		3
Environmental category (outdoor installation)		✓
Environmental category (interior installation)		✓
UV resistance		✓
Minimum cable cross-section of AC connecting line	mm ²	6
Minimum cable cross-section of DC connecting line	mm ²	4
Max. fusing on output side		B32, C32
Operator protection (EN 62109-2)		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 ³ /h	2x48
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 - MC 4		✓
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 17



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