



Smart
connections.

Data sheet

PIKO 5.5 10A

5.5

Technical data PIKO 5.5 10A



- Three-phase feed-in
- Transformerless topology
- Two independent MPP trackers
- Integrated circuit contact for self-consumption control
- Integrated electronic DC circuit breaker
- Integrated data logger and web server for system monitoring
- Various communication interfaces included as standard:
2 x Ethernet (integrated switch), RS485, S0, 4 x analogue inputs
- Graphic display with 3-button control

Input side (DC)

Max. PV power (cos $\varphi = 1$)	kWp	6
Rated input voltage ($U_{DC,r}$)	V	680
Max. input voltage ($U_{DC,max}$)	V	950
Min. input voltage ($U_{DC,min}$)	V	180
Start-up input voltage ($U_{DC,start}$)	V	180
Max. MPP voltage ($U_{MPP,max}$)	V	850
Min. MPP voltage for DC rated output in single tracker mode ($U_{MPP,min}$)	V	600
Min. MPP voltage for DC rated output in two-tracker mode ($U_{MPP,min}$)	V	360
Max. input current ($I_{DC,max}$)	A	10
Max. input current with parallel connection	A	-
Number of DC inputs		2
Number of independent MPP trackers		2

Output side (AC)

Rated output, cos $\varphi = 1$ ($P_{AC,r}$)	kW	5.5 (ES, PT: 5.0)
Max. output apparent power, cos $\varphi,_{adj}$	kVA	5.5
Max. output voltage ($U_{AC,max}$)	V	264.5
Min. output voltage ($U_{AC,min}$)	V	184
Rated output current	A	7
Max. output current ($I_{AC,max}$)	A	8
Short-circuit current	A	10,2
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 $\varphi_{AC,r}$		0,90...1...0,90
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	2.7
Max. night-time consumption of communication board	W	1.7

Efficiency

Max. efficiency	%	96.2
European efficiency	%	95.7
MPP adjustment efficiency	%	99.9

Warranty

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

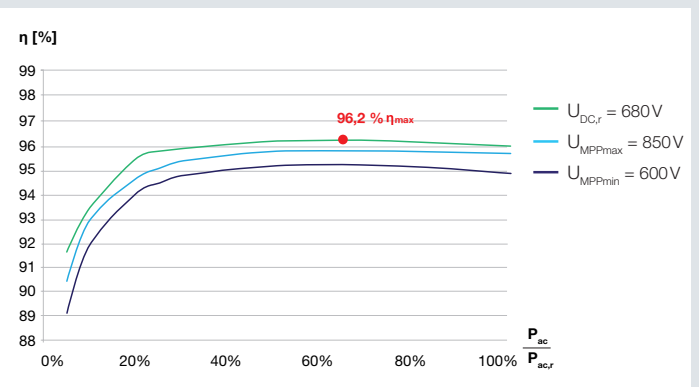
System data

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	2,5
Minimum cable cross-section of DC connecting line	mm ²	4
Min. fusing on output side		B16, C16
Operator protection (EN 62109-2)		RCCB Typ B
Electronic disconnection device integrated		✓
Height	mm	350 (13.78 in)
Width	mm	420 (16.54 in)
Depth	mm	211 (8.31 in)
Weight	kg	21,1 (46.52 lb)
Cooling principle - convection		-
Cooling principle - regulated fans		✓
Max. air throughput	m ³ /h	0
Noise emission	dBA	46
Ambient temperature	°C	-20...60 (-4...140 °F)
Max. installation altitude above sea level	m	2000 (6562 ft)
Humidity	%	0...95
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

Efficiency characteristics of PIKO 5.5 10A



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