



Smart
connections.

Data sheet

PIKO 36 EPC

36

Technical data PIKO 36 EPC



- High European efficiency >98%
- IP65 protection class
- High input voltage of max. 1100 V with up to 25 modules on one string
- Maintenance-free string fuse
- Grid and system protection provided as standard by an internal PIKO EPC AC Off Switch card
- Integrated electronic DC switch
- Interfaces: 2x Ethernet and 1x RS485
- Optional overvoltage protection for AC and DC (type 2)
- Optional overvoltage protection for communication via the Ethernet and RS485

Input side (DC)

Max. PV power (cos φ = 1)	kWp	40
Rated input voltage (V _{DC,r})	V	580
Max. input voltage (V _{DCmax})	V	1100
Start-up input voltage (V _{DCstart})	V	580
Min. MPP voltage (V _{MPPmin})	V	580
Max. MPP voltage (V _{MPPmax})	V	800
Max. working voltage (V _{DCworkmax})	V	1000
Max. input current (I _{DCmax}) per DC input pair (DC1-2, DC3-4, DC5-6)	A	26
Number of DC inputs		6
Number of independent MPP trackers		1

Output side (AC)

Rated output, cos φ = 1 (P _{AC,r})	kW	36
Max. output apparent power, COS φ, adj	kVA	36
Max. output voltage (V _{ACmax})	V	460
Min. output voltage (V _{ACmin})	V	320
Rated output current	A	52
Max. output current (I _{ACmax})	A	55
Short-circuit current (peak / RMS)	A	82.4/58.3
Grid connection		3~, 400V
Rated frequency (f _i)	Hz	50
Max. grid frequency (f _{max})	Hz	52
Min. grid frequency (f _{min})	Hz	47.5
Setting range of the power factor (COS φ _{AC,r})		0.80...1...0.80
Power factor for rated power (COS φ _{AC,r})		1
Max. total harmonic distortion	%	3

Device properties

Standby (Night)	W	3.7
-----------------	---	-----

Efficiency

Max. efficiency	%	98.7
European efficiency	%	98.3
Californian efficiency	%	98.4
MPP adjustment efficiency	%	99.9

Interfaces

Ethernet LAN (RJ45)		2
RS485		1
Webserver		✓

Warranty

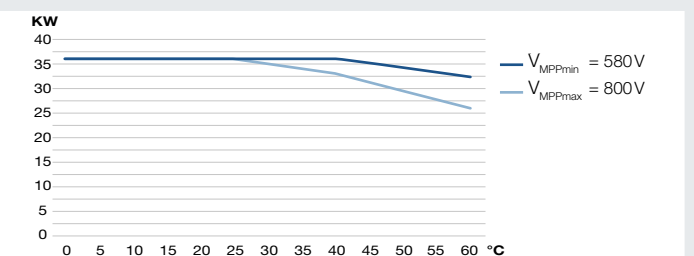
Warranty (years)		5
Warranty extension optional (years)		10 / 15 / 20

System data

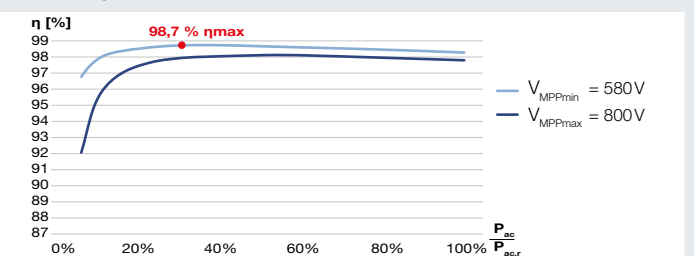
Topology: Without galvanic separation - transformerless		✓
Internal protection according to IEC 60529		IP 65
Protective class according to IEC 62103		I
Overvoltage category according to IEC 60664-1 Input side (PV generator)		II
Overvoltage category according to IEC 60664-1 Output side (grid connection)		III
Overvoltage protection DC/AC		optional type 2
Overvoltage protection LAN/RS485		optional
Pollution Degree		4
Environmental category (outdoor installation)		✓
Environmental category (interior installation)		✓
UV resistance		✓
Minimum cable cross-section AC	mm ²	16
Minimum cable cross-section DC	mm ²	4
Max. fusing on output side		B63, C63
Operator protection (EN 62109-2)		RCMU/RCCB Typ B
Automatic disconnection device integrated according to VDE V 0126-1-1		✓
Height/Width/Depth	mm in	540/700/265 21.26/27.56/10.43
Weight	kg	51.0 (112.5 lb)
Cooling principle - regulated fans		✓
Max. noise emission	dB(A)	64
Ambient temperature	°C	-25...60 (-13...140 °F)
Max. installation altitude above sea level (Derating from 2000 m (6562 ft))	m	3000 (9843 ft)
Relative humidity	%	4...100
Connection technology DC side		SUNCLIX
Connection technology AC side		Spring-loaded terminal strip

Guidelines/certification (*does not apply to all national Annexes to EN 50438) CE, GS, EN62109-1, EN62109-2, TR3, TR4, TR8, BDEW, VDE-AR-N 4105, NAV/EEA, VDE 0126-1-1, CEI 0-16, C10/11, RD661, PO 12.3, G59/3-2, IEC 62116, IEC 61727, EN 50438*, CLC/TS 50549-1, TSE K 191, CLC/TS 50549-2, TSE K 192, TOR D4, ERDF-PRO-RES 64E

Temperature Derating



Efficiency characteristics



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