



Smart
connections.

Data sheet

PIKO 3.0

KOSTAL Inverter 1phase

3.0

Inverter PIKO 3.0

- 1 phase feed-in
- Transformerless converting
- Control of active power reduction for PV systems >100 kW
- Datalogging and diverse interfaces as standard:
Ethernet, RS485, S0 input and output
- Integrated electronic DC circuit breaker



PIKO 3.0

Technical data

Input side (DC)

Number of MPP trackers	1
Max. input voltage (open circuit voltage)	950 V
Min. input voltage	180 V
Start-up input voltage	180 V
Rated input voltage	600 V
Min. MPP voltage ... max. MPP voltage at rated power of the inverter	330...850 V
Extended, lower MPP voltage range at partial performance of the inverter	180...330 V
Max. input current	9 A
Max. input current with parallel connection	not possible

Output side (AC)

Max. output current per phase	13.1 A
Rated AC output	2800 W
Max. AC power	3000 W
Number of feed-in phases	1
Grid voltage	230 V

Protection class	I
Galvanic isolation	transformerless
Maximum efficiency	94.8 %
European-standard efficiency	94 %
Power loss at night	< 1 W
Nominal frequency	50 Hz
Nom. reactive power factor Cos phi	1
Type of grid monitoring	MSD, Frequency Shifting
Reverse polarity protection	short circuit diode at DC side
Personal protection	universal current sensitive residual current circuit breaker and earth fault monitoring
Operational conditions	interior + exterior
Ambient temperature	-20° to 60°C
Max. ambient temperature at Prated	40°C
Max. humidity	0 to 95 %
Type of cooling	regulated ventilation
Ingress protection according to IEC 60529	IP 55
Connection technology at input side	MC 4
Connection technology at output side	spring-loaded terminal strip
Dimensions (W x D x H)	420 x 211 x 350 mm
Weight	approx. 19.8 kg
Disconnection device	integrated electronic circuit breaker



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Contact

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Configurable for Deutschland, España, France, Italia, Suisse, Belgique, Luxembourg, Nederlands, Česká republika, Ελλάδα

Conformity declarations :

CE mark: EMC Directive (2004/108/EC): DIN EN 61000-3-2, EN 61000-3-3, DIN EN 61000-6-2, DIN EN 61000-6-3, Low Voltage Directive 2006/95/EC, DIN EN 50178

España:

interruptor de interconexión interno para la desconexión automática; protección interna de máxima y mínima frecuencia (49 – 51 Hz); protección interna de máxima y mínima tensión (0,85 – 1,1 Un); vigilante de aislamiento a tierra en la parte de continua; El ajuste de los límites de actuación de las protecciones así como el software de ajuste de éstas no es accesible al usuario de la instalación; Los inversores cumplen con todas las normas y directrices de seguridad aplicables; Real Decreto 1663/2000; Directriz 89/336/EWG, EN 61000-6-4, EN 61000-6-2; Directriz 73/23/EWG, EN50178; El certificado „CE“ Selbsttätige Schaltstelle mit einphasiger Netzüberwachung gemäß DIN V VDE V 0126-1-1:2006-02; Prüfgrundlagen: DIN V VDE V 0126-1-1 (VDE V 0126-1-1);2006-02 und „Eigenerzeugungsanlagen am Niederspannungsnetz España: Real Decreto 1663/2000; Artículo 11 del RD 1663/2000; IEC 61727:2001; RD 1663/2000 y DIN V VDE V 0126-1-1:2006-02 Italia:

OGGETTO: Dichiarazione di conformità alle prescrizioni ENEL DK 5940 Ed. 2.2; TIPOLOGIA APPARATO A CUI SI RIFERISCE LA DICHIARAZIONE: DISPOSITIVO DI INTERFACCIA; PROTEZIONE DI INTERFACCIA; DISPOSITIVO DI CONVERSIONE STATICA

Elektronischer DC-Schalter: IEC 60947-3:1999; DIN EN 60947-3; VDE 0660-107:2006-03 „Niederspannungsschaltgeräte - Teil 3: Lastschalter, Trennschalter, Lasttrennschalter und Schalter-Sicherungs-Einheiten“; IEC 60364-7-712:2002-05; DIN VDE 0100-712:2006-06

Manufacturer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany