



Smart
connections.

Data sheet

PIKO 8.3

KOSTAL Inverter 3phase

8.3

Inverter PIKO 8.3

- 3phase feed-in to avoid voltage asymmetries
- Transformerless converting
- Two independent MPP trackers
- Possible parallel connection of two MPP trackers to extend the input current range
- 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 8.3

Technical data

Input side (DC)

Number of MPP trackers	2
Max. input voltage (open circuit voltage)	950 V
Min. input voltage	180 V
Start-up input voltage	180 V
Rated input voltage	680 V
Min. MPP voltage ... max. MPP voltage at rated power of the inverter	400...850 V
Extended, lower MPP voltage range at partial performance of the inverter	180...400 V
Max. input current	12.5 A
Max. input current with parallel connection	25 A

Output side (AC)

Max. output current per phase	12 A
Rated AC output	7600 W
Max. AC power	8300 W
Number of feed-in phases	3
Grid voltage	230 V

Protection class	I
Galvanic isolation	transformerless
Maximum efficiency	96 %
European-standard efficiency	95.1 %
Power loss at night	< 1 W
Nominal frequency	50 Hz
Nom. reactive power factor Cos phi	1

Type of grid monitoring	MSD, three-phase monitoring
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)	520 x 230 x 450 mm
Weight	33 kg
Disconnection device	integrated electronic circuit breaker



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

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