



BUREAU
VERITAS

Certificate of compliance

Applicant

Kostal Solar Electric GmbH
Hanferstraße 6
79108 Freiburg
Germany

Type of grid and plant protection	Automatic disconnection device between a generator and the public low-voltage grid			
Assigned to generation unit type	Plenticore MP S G3 3.0	Plenticore MP S G3 3.6	Plenticore MP S G3 4.0	Plenticore MP M G3 4.6
	Plenticore MP M G3 5.0	Plenticore MP M G3 6.0	Plenticore MP M G3 7.0	--

Firmware version

3.05.00.19100

Use in accordance with regulations:

Automatic disconnection device with single-phase mains surveillance in accordance with DIN VDE 0126-1-1 for Photovoltaic and battery inverter (Hybrid-Inverter) systems with a single-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter. This serves as a replacement for the disconnection device with insulating function, which the distribution network provider can access at any time

Applicable standards / directives

DIN VDE 0126-1-1:2013-08; VDE V 0126-1-1:2013-08

Automatic disconnection device between a generator and the public low-voltage grid

At the time of issue of this certificate, the representative product listed above corresponds to the stated rules and standards.

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Certificate number: U25-0674

Certification Program: NSOP-0032-DEU-ZE-V10

Date of issue: 2025-07-14

Certification body

Accreditation



Domenik Koll
Head of Energy Systems Germany



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkkS) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkkS) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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ZERT-0072-DEU-ZE-ES-V01/TEMP-0048-DEU-ZE-ES-V01

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Type Approval and declaration of compliance with the requirements of Dubai Electricity & Water Authority				
Manufacturer	Kostal Solar Electric GmbH Hanferstraße 6 79108 Freiburg Germany			
Product type	Photovoltaic and battery inverter (Hybrid-Inverter)			
Static converter model	Plenticore MP S G3 3.0	Plenticore MP S G3 3.6	Plenticore MP S G3 4.0	Plenticore MP M G3 4.6
Input DC (photovoltaic)				
MPP voltage range [V]	85 - 800	125 - 800	125 - 800	95 - 800
Max. input voltage [V]	1000	1000	1000	1000
Max. input current per MPPT [A]	2 x 17	2 x 17	2 x 17	2 x 17
Input DC (battery)				
DC voltage range [V]	95 - 820	95 - 820	95 - 820	95 - 820
Max. DC voltage [V]	1000	1000	1000	1000
Max. DC current per DC input [A]	17	17	17	17
Output AC				
Rated AC voltage [V]	230 / 50Hz	230 / 50Hz	230 / 50Hz	230 / 50Hz
Rated output current [A]	13,0	15,7	17,4	20,0
Max. output current [A]	19,3	19,3	19,3	32,0
Nom. converter output (P_{NINV}) [W]	3000	3600	4000	4600
Rated apparent power [VA]	3000	3600	4000	4600
In on-grid battery mode AC				
P_{sn} (nom. discharge power) [W]	3000	3600	4000	4600
P_{cn} (nom. charging power) [W]	3000	3600	4000	4600
P_{smax} (max. discharge power) [W]	3000	3600	4000	4600
P_{cmax} (max. charging power) [W]	3000	3600	4000	4600
Type	Bidirectional	Bidirectional	Bidirectional	Bidirectional

Static converter model	Plenticore MP M G3 5.0	Plenticore MP M G3 6.0	Plenticore MP M G3 7.0	--
Input DC (photovoltaic)				
MPP voltage range [V]	105 - 800	125 - 800	145 - 800	--
Max. input voltage [V]	1000	1000	1000	--
Max. input current per MPPT [A]	2 x 17	2 x 17	2 x 17	--
Input DC (battery)				
DC voltage range [V]	95 - 820	95 - 820	95 - 820	--
Max. DC voltage [V]	1000	1000	1000	--
Max. DC current per DC input [A]	17	17	17	--
Output AC				
Rated AC voltage [V]	230 / 50Hz	230 / 50Hz	230 / 50Hz	--
Rated output current [A]	21,7	26,1	30,4	--
Max. output current [A]	32,0	32,0	32,0	--
Nom. converter output (P_{NINV}) [W]	5000	6000	7000	--
Rated apparent power [VA]	5000	6000	7000	--
In on-grid battery mode AC				
P_{sn} (nom. discharge power) [W]	5000	6000	7000	--
P_{cn} (nom. charging power) [W]	5000	6000	7000	--
P_{smax} (max. discharge power) [W]	5000	6000	7000	--
P_{cmax} (max. charging power) [W]	5000	6000	7000	--
Type	Bidirectional	Bidirectional	Bidirectional	--

Interface protection system and interface switch (Network and system protection “NS-protection”)	
Type of protection	integrated NS-protection
Assigned to generation unit type	Plenticore MP S G3 3.0, Plenticore MP S G3 3.6, Plenticore MP S G3 4.0, Plenticore MP M G 4.6, Plenticore MP M G3 5.0, Plenticore MP M G3 6.0, Plenticore MP M G3 7.0
Integrated interface switch	Typ Schalteinrichtung 1: Relais (Model NF32) Typ Schalteinrichtung 2: Relais (Model NF32)
	Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.
Firmware version	3.05.00.19100
Note The settings of the interface protection are password protected adjustable. In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.	