



**BUREAU
VERITAS**

Certificate of compliance

Applicant: NingBo Deye Inverter Technology Co., Ltd.
No. 26 South YongJiang Road, Daqi, Beilun, NingBo
China

Product: Photovoltaic inverter

Model: SUN-18K-G05, SUN-20K-G05, SUN-22K-G05,
SUN-23K-G05, SUN-25K-G05, SUN-18K-G05P3-EU-CM2,
SUN-20K-G05P3-EU-CM2, SUN-22K-G05P3-EU-CM2,
SUN-23K-G05P3-EU-CM2, SUN-25K-G05P3-EU-CM2

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

Dubai Electricity & Water Authority

Standards for distributed renewable resources generators connected to the distribution network

Version 3.0 December 2023

Appendix D.3 Inverters for Low voltage connected RRGUs

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

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

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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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Type Approval and declaration of compliance with the requirements of Dubai Electricity & Water Authority				
Manufacturer	NingBo Deye Inverter Technology Co., Ltd. No. 26 South YongJiang Road, Daqi, Beilun, NingBo China			
Product type	Photovoltaic inverter			
Static converter model	SUN-18K-G05	SUN-20K-G05	SUN-22K-G05	SUN-23K-G05
Input DC (photovoltaic)				
MPP voltage range [V]	200-1000	200-1000	200-1000	200-1000
Max. input voltage [V]	1100	1100	1100	1100
Max. input current per MPPT [A]	26+26	26+26	26+26	26+26
Output AC				
Rated AC voltage [V]	3L/N/PE, 230/400, 50Hz	3L/N/PE, 230/400, 50Hz	3L/N/PE, 230/400, 50Hz	3L/N/PE, 230/400, 50Hz
Rated output current [A]	26,1	29,0	31,9	33,4
Max. output current [A]	28,7	31,9	35,1	36,7
Nom. converter output (P _{NINV}) [kW]	18,0	20,0	22,0	23,0
Max. apparent power [kVA]	19,8	22,0	24,2	25,3
Static converter model	SUN-25K-G05	SUN-18K-G05P3-EU-CM2	SUN-20K-G05P3-EU-CM2	SUN-22K-G05P3-EU-CM2
Input DC (photovoltaic)				
MPP voltage range [V]	200-1000	200-1000	200-1000	200-1000
Max. input voltage [V]	1100	1100	1100	1100
Max. input current per MPPT [A]	26+26	26+26	26+26	26+26
Output AC				
Rated AC voltage [V]	3L/N/PE, 230/400, 50Hz	3L/N/PE, 230/400, 50Hz	3L/N/PE, 230/400, 50Hz	3L/N/PE, 230/400, 50Hz
Rated output current [A]	36,2	26,1	29,0	31,9
Max. output current [A]	39,8	28,7	31,9	35,1
Nom. converter output (P _{NINV}) [kW]	25,0	18,0	20,0	22,0
Max. apparent power [kVA]	27,5	19,8	22,0	24,2
Static converter model	SUN-23K-G05P3-EU-CM2	SUN-25K-G05P3-EU-CM2	--	--
Input DC (photovoltaic)				
MPP voltage range [V]	200-1000	200-1000	--	--
Max. input voltage [V]	1100	1100	--	--
Max. input current per MPPT [A]	26+26	26+26	--	--
Output AC				
Rated AC voltage [V]	3L/N/PE, 230/400, 50Hz	3L/N/PE, 230/400, 50Hz	--	--
Rated output current [A]	33,4	36,3	--	--

Max. output current [A]	36,7	39,9	--	--
Nom. converter output (P _{NINV}) [kW]	23,0	25,0	--	--
Max. apparent power [kVA]	25,3	27,5	--	--

Note:

a) The device is able to limit the Idc to 0.5% of the nominal current.

1) The device is for systems up 400kW.

The inverters of NingBo Deye Inverter Technology Co., Ltd. have a maximum apparent power limit. In the case where a system should be able to reach in every working condition a determined power factor, it is necessary to set the maximum active power in such a way, that you can reach at any time the cos φ wanted.

The inverter is intended for outdoor application and provide an IP65 enclosure.

The inverter is able to keep the power derating smaller or equal to 25% of the rated power at an ambient temperature of 50°C.

Interface protection system and interface switch (Network and system protection "NS-protection")

Type of protection	integrated NS-protection
Assigned to generation unit type	SUN-18K-G05, SUN-20K-G05, SUN-22K-G05, SUN-23K-G05, SUN-25K-G05, SUN-18K-G05P3-EU-CM2, SUN-20K-G05P3-EU-CM2, SUN-22K-G05P3-EU-CM2, SUN-23K-G05P3-EU-CM2, SUN-25K-G05P3-EU-CM2
Integrated interface switch	Type of switching equipment 1: Relay (Model AZSR143) Type of switching equipment 2: Relay (Model AZSR143)
	Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.
Firmware version	5512-0326

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.