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Certificate of compliance

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

Product: **Photovoltaic (PV) and battery inverter**

Model: **SUN-3.6K-SG03LP1-EU**
SUN-5K-SG03LP1-EU

Inverter for single-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:

C10/11:2021-03

Specific technical requirements for generator in parallel operation with the distribution network

D.3 Interface protection

D.4 Operating ranges

D.5 Immunity to disturbances

D.6 Active response to frequency deviation

D.7 Power response to voltage changes

D.8 Connection and reconnection

D.9 Ceasing and reduction of active power on set point

Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG).

Type approval for generation units to use in Type A plants.

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

Report number: **ASUE-ESH-P22030300**

Certification program: **NSOP-0032-DEU-ZE-V01**

Certificate number: **U22-0414**

Date of issue: **2022-06-29**

Certification body

Alf ASSENKAMP



Certification body of Bureau Veritas Consumer Products Services Germany GmbH Accredited according to DIN EN ISO/IEC 17065

Testing laboratory accredited according to DIN EN ISO/IEC 17025

A partial representation of the certificate requires the written permission of Bureau Veritas Consumer Products Services Germany GmbH



Annex to the EN 50549-1 / C10/11 certificate of compliance No. U22-0414

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Appendix

Extract from test report according to EN 50549-1 / C10/11 Nr. ASUE-ESH-P22030300

Type Approval and declaration of compliance with the requirements of EN 50549-1, Commission Regulation (EU) 2016/631 of 14 April 2016 and C10/11 for Belgium

Manufacturer / applicant	NingBo Deye Inverter Technology Co., Ltd. No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China
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Micro-generator Type	Photovoltaic and battery inverter			
	SUN-3.6K-SG03LP1-EU	SUN-5K-SG03LP1-EU	--	--
MPP DC voltage range [V]	150-425	150-425	--	--
Input DC voltage range [V]	125-500	125-500	--	--
Input DC current [A]	13/13	13/13	--	--
Output AC voltage [V]	L/N/PE 220/230	L/N/PE 220/230	--	--
Output AC current [A]	15,7	21,7	--	--
Output power [W]	3600	5000	--	--
Battery DC voltage range [V]	40-60	40-60	--	--
Battery charge current [A]	90	120	--	--
Battery discharge current [A]	90	120	--	--

Firmware version	beginning with Ver2131
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Description of the structure of the power generation unit:
 The power generation unit is equipped with a PV and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in (each) line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.

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.
 The above stated generators are tested according to the requirements in the C10/11 for Belgium. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.