CERTIFICATE OF CONFORMITY

CERTIFICATO DI CONFORMITÀ

Issued to:	NingBo Deye Inverter Technology Co., Ltd. No.26 South YongJiang Road, Daqi, Beilun NingBo, 315800, Zhejiang, P.R.China
For the product:	Hybrid inverter
Trade name:	Deye
Type/Model:	SUN-14K-SG05LP3-EU-SM2, SUN-15K-SG05LP3-EU-SM2, SUN-16K-SG05LP3-EU-SM2, SUN-18K-SG05LP3-EU-SM2, SUN-20K-SG05LP3-EU-SM2
Ratings:	See Annex
Manufactured by:	NingBo Deye Inverter Technology Co., Ltd. No.26 South YongJiang Road, Daqi, Beilun NingBo, 315800, Zhejiang, P.R.China
Requirements:	TOR Erzeuger Type A Version 1.3:2024-07-01 OVE-Richtlinie R 25:2020-03-01

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6213883.50

The examination has been carried out on one single specimen of the product. The certificate does not include an assessment of the minilecture's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

This Test Certificate expires at the latest on 2030-03-21 or expires upon withdrawal of one of the above mentioned standards.

Shanghai, 2025-03-21 Number: 6213883.01COC

DEKRA Testing and Certification (Shanghai) Ltd.

Kreny Lin
Certification Manager

IAS ACCREDITED Product Certification Agency

PCA-141

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Annex

Document no. : 6213883.01COC

Test basics:

TOR Erzeuger Type A Version 1.3:2024-07-01
Connection and parallel operation of Type A power generation systems and small-scale generation systems

OVE-Richtlinie R 25: 2020-03-01
Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks

5.1 Testing the network perturbations
5.2 Testing the symmetry behavior of three-phase inverters
5.3 Testing the behavior of the generating unit on the network
5.4 Testing the automatic activation point
5.5 Testing the connection conditions and synchronization
5.6 Proof of robustness and dynamic network support

Ratings of product:

Operating temperature range: - 40°C to + 60°C

Protective class: I

Ingress protection rating: IP65

OVC: DC II / AC III

Power factor range (adjustable): > 0.99 (0.8 leading…0.8 lagging)

SUN-14K-SG05LP3-EU-SM2

PV Input: Max 800 Vdc, MPPT voltage range: 160-650 Vdc, Max 36 / 36 A, Isc PV: 54 / 54 A

Battery: Type Lead-acid or Lithium-ion, Voltage 48 Vdc (40-60 V), Max. Charging / Discharging Current 260 A

AC Output: 230/400 Vac, 3L/N/PE, 50 / 60 Hz, Max current: 22.4 A, Max 15.4 kVA, rated active power: 14 kW

SUN-15K-SG05LP3-EU-SM2

PV Input: Max 800 Vdc, MPPT voltage range: 160-650 Vdc, Max 36 / 36 A, Isc PV: 54 / 54 A

Battery: Type Lead-acid or Lithium-ion, Voltage 48 Vdc (40-60 V), Max. Charging / Discharging Current 280 A

AC Output: 230/400 Vac, 3L/N/PE, 50 / 60 Hz, Max current: 24 A, Max 16.5 kVA, rated active power: 15 kW

SUN-16K-SG05LP3-EU-SM2

PV Input: Max 800 Vdc, MPPT voltage range: 160-650 Vdc, Max 36 / 36 A, Isc PV: 54 / 54 A

Battery: Type Lead-acid or Lithium-ion, Voltage 48 Vdc (40-60 V), Max. Charging / Discharging Current 300 A

AC Output: 230/400 Vac, 3L/N/PE, 50 / 60 Hz, Max current: 25.6 A, Max 17.6 kVA, rated active power: 16 kW

SUN-18K-SG05LP3-EU-SM2

PV Input: Max 800 Vdc, MPPT voltage range: 160-650 Vdc, Max 36 / 36 A, Isc PV: 54 / 54 A

Battery: Type Lead-acid or Lithium-ion, Voltage 48 Vdc (40-60 V), Max. Charging / Discharging Current 330 A

AC Output: 230/400 Vac, 3L/N/PE, 50 / 60 Hz, Max current: 28.7 A, Max 19.8 kVA, rated active power: 18 kW

SUN-20K-SG05LP3-EU-SM2

PV Input: Max 800 Vdc, MPPT voltage range: 160-650 Vdc, Max 36 / 36 A, Isc PV: 54 / 54 A

Battery: Type Lead-acid or Lithium-ion, Voltage 48 Vdc (40-60 V), Max. Charging / Discharging Current 350 A

AC Output: 230/400 Vac, 3L/N/PE, 50 / 60 Hz, Max current: 31.9 A, Max 22 kVA, rated active power: 20 kW

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