

Certificato di conformità alle prescrizioni alla Norma CEI 0-21



Certificate of conformity to the requirements of standard CEI 0-21

N. 26-016-00

NOME ORGANISMO **Kiwa Primara GmbH**
CERTIFICATORE: Gewerbestraße 28 - 32, 87600 Kaufbeuren, Germania
Name of Certifier: Accreditemento DAkKS, no. D-ZE-12089-01-00, Rif. DIN EN ISO/IEC 17065
DAkKS Accreditation, no. D-ZE-12089-01-00, acc. DIN EN ISO/IEC 17065

OGGETTO: **SOP-9-1_15 GCC Certification Program, 09/21**
Subject: basato su / based on:
CEI 0-21, 2022-03; V1:2022-11; V2:2024-01
Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica
Reference technical regulation for the connection of active and passive users to the LV networks of electricity distribution companies

TIPOLOGIA APPARATO A CUI SI RIFERISCE LA DICHIARAZIONE:

Type of device to which the declaration refers:

PROTEZIONE DI INTERFACCIA <i>Interface protection</i>	DISPOSITIVO DI CONVERSIONE STATICA <i>Static conversion device</i>	SISTEMA DI ACCUMULO <i>Storage system</i>	DISPOSITIVO DI GENERAZIONE ROTANTE <i>Rotary generating device</i>
X	X	X	

Indicare con una **X** il campo o i campi cui si riferisce la dichiarazione. Identificare in maniera univoca i dispositivi dichiarati conformi mediante l'indicazione delle seguenti informazioni:

Declaration refers as indicated in the X the field(s). The compliant device(s) are unambiguously identifiable by indicating the following information:

COSTRUTTORE: <i>Manufacturer:</i>	NingBo Deye Inverter Technology Co., Ltd. No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China					
TIPO APPARECCHITURA: <i>Type of equipment:</i>	Inverter ibridi con sistema di accumulo <i>Hybrid Inverter with storage system</i>					
MODELLO: <i>Modell:</i>						
-						
SUN-3.6K-SG05LP1-EU	SUN-5K-SG05LP1-EU	SUN-6K-SG05LP1-EU	SUN-7K-SG05LP1-EU	SUN-7.6K-SG05LP1-EU	SUN-8K-SG05LP1-EU	SUN-10K-SG05LP1-EU
SUN-3.6K-SG05LP1-EU-AM2-P	SUN-5K-SG05LP1-EU-AM2-P	SUN-6K-SG05LP1-EU-AM2-P	SUN-7K-SG05LP1-EU-AM2-P	SUN-7.6K-SG05LP1-EU-AM2-P	SUN-8K-SG05LP1-EU-AM2-P	SUN-10K-SG05LP1-EU-AM2-P
SUN-3.6K-SG05LP1-EU-SM2-P	SUN-5K-SG05LP1-EU-SM2-P	SUN-6K-SG05LP1-EU-SM2-P	SUN-7K-SG05LP1-EU-SM2-P	SUN-7.6K-SG05LP1-EU-SM2-P	SUN-8K-SG05LP1-EU-SM2-P	SUN-10K-SG05LP1-EU-SM2-P
-	-	-	SUN-7K-SG05LP1-EU-SM2	SUN-7.6K-SG05LP1-EU-SM2	SUN-8K-SG05LP1-EU-SM2	SUN-10K-SG05LP1-EU-SM2
AI-W5.1-3.6P1-EU-B	AI-W5.1-5P1-EU-B	AI-W5.1-6P1-EU-B	AI-W5.1-7P1-EU-B	AI-W5.1-7.6P1-EU-B	AI-W5.1-8P1-EU-B	AI-W5.1-10P1-EU-B
POTENZA NOMINALE: <i>rated power:</i>						
3600W	5000W	6000W	7000W	7600W	8000W	10000W

Gli inverter non sono dotati di un sistema che previene sbilanciamenti superiori a 6 kW. Questo aspetto deve essere considerato a livello di centrale elettrica.

The inverters are not equipped with a system pre-venting imbalance of more than 6kW. It must be considered at the power plant level.

Data di emissione: **2026-01-27**


date of issue:

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Tanja Rottach
Certification Engineer

Annex to certificate

I seguenti generatori rispettano le prescrizioni della norma CEI 0-21 ed. 2022-03; V1:2022-11; V2:2024-01							
The following generators comply with the requirements of standard CEI 0-21 ed. 2022-03; V1:2022-11; V2:2024-01							
Costruttore Manufacturer	NingBo Deye Inverter Technology Co., Ltd. No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China						
Tipo apparecchiatura Equipment type	Inverter ibridi con sistema di accumulo Hybrid Inverter with storage system						
Marca Brand							
N. fasi No. of phases	<input checked="" type="checkbox"/> Monofase / single phase <input type="checkbox"/> Trifase / three phase Frequenza / frequency: 50Hz Tensione / Voltage: 230V						
Energia primaria utilizzata Primary energy used	<input checked="" type="checkbox"/> Solare / solar <input type="checkbox"/> Eolico / wind power <input type="checkbox"/> CHP / CHP			<input checked="" type="checkbox"/> Accumulo / storage <input type="checkbox"/> Idroelettrico / hydroelectric <input type="checkbox"/> Altro / other:			
Modello del generatore Generator model	SUN-3.6K-SG05LP1-EU	SUN-5K-SG05LP1-EU	SUN-6K-SG05LP1-EU	SUN-7K-SG05LP1-EU	SUN-7.6K-SG05LP1-EU	SUN-8K-SG05LP1-EU	SUN-10K-SG05LP1-EU
	SUN-3.6K-SG05LP1-EU-AM2-P	SUN-5K-SG05LP1-EU-AM2-P	SUN-6K-SG05LP1-EU-AM2-P	SUN-7K-SG05LP1-EU-AM2-P	SUN-7.6K-SG05LP1-EU-AM2-P	SUN-8K-SG05LP1-EU-AM2-P	SUN-10K-SG05LP1-EU-AM2-P
	SUN-3.6K-SG05LP1-EU-SM2-P	SUN-5K-SG05LP1-EU-SM2-P	SUN-6K-SG05LP1-EU-SM2-P	SUN-7K-SG05LP1-EU-SM2-P	SUN-7.6K-SG05LP1-EU-SM2-P	SUN-8K-SG05LP1-EU-SM2-P	SUN-10K-SG05LP1-EU-SM2-P
	-	-	-	SUN-7K-SG05LP1-EU-SM2	SUN-7.6K-SG05LP1-EU-SM2	SUN-8K-SG05LP1-EU-SM2	SUN-10K-SG05LP1-EU-SM2
	AI-W5.1-3.6P1-EU-B	AI-W5.1-5P1-EU-B	AI-W5.1-6P1-EU-B	AI-W5.1-7P1-EU-B	AI-W5.1-7.6P1-EU-B	AI-W5.1-8P1-EU-B	AI-W5.1-10P1-EU-B
Potenza nominale Rated power	3600W	5000W	6000W	7000W	7600W	8000W	10000W
Il generatore: The generator:	<input type="checkbox"/> è idoneo per installazione in impianti con potenza superiore a 11,08 kW is suitable for installation in systems with an output of more than 11.08 kW <input checked="" type="checkbox"/> È in grado di limitare la I _{dc} allo 0,5% della corrente nominale: It is able to limit I _{dc} to 0.5% of the rated current: <input checked="" type="checkbox"/> utilizza una funzione di protezione sensibile alla corrente continua uses a DC-sensitive protection function <input type="checkbox"/> utilizza un trasformatore operante alla frequenza di rete uses a transformer operating at mains frequency						
Caratteristiche del sistema di protezione di interfaccia							
Characteristics of the interface protection system							
Costruttore Manufacturer	NingBo Deye Inverter Technology Co., Ltd.						
Modello Model	SUN-3.6K-SG05LP1-EU SUN-5K-SG05LP1-EU SUN-6K-SG05LP1-EU SUN-7K-SG05LP1-EU SUN-7.6K-SG05LP1-EU SUN-8K-SG05LP1-EU SUN-10K-SG05LP1-EU SUN-3.6K-SG05LP1-EU-AM2-P SUN-5K-SG05LP1-EU-AM2-P SUN-6K-SG05LP1-EU-AM2-P SUN-7K-SG05LP1-EU-AM2-P SUN-7.6K-SG05LP1-EU-AM2-P SUN-8K-SG05LP1-EU-AM2-P SUN-10K-SG05LP1-EU-AM2-P SUN-3.6K-SG05LP1-EU-SM2-P SUN-5K-SG05LP1-EU-SM2-P			SUN-6K-SG05LP1-EU-SM2-P SUN-7K-SG05LP1-EU-SM2-P SUN-7.6K-SG05LP1-EU-SM2-P SUN-8K-SG05LP1-EU-SM2-P SUN-10K-SG05LP1-EU-SM2-P SUN-7K-SG05LP1-EU-SM2 SUN-7.6K-SG05LP1-EU-SM2 SUN-8K-SG05LP1-EU-SM2 SUN-10K-SG05LP1-EU-SM2 AI-W5.1-3.6P1-EU-B AI-W5.1-5P1-EU-B AI-W5.1-6P1-EU-B AI-W5.1-7P1-EU-B AI-W5.1-7.6P1-EU-B AI-W5.1-8P1-EU-B AI-W5.1-10P1-EU-B			
Tipo Type	<input checked="" type="checkbox"/> Integrata / Integrated <input type="checkbox"/> Non integrata / not integrated						

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P _{sn} [W] (potenza di scarica nom.) <i>(nominal discharge power)</i>	3600	4800	4800	4800	4800	4800	4800
P _{cn} [W] (potenza di carica nom.) <i>(nominal charging power)</i>	3600	4800	4800	4800	4800	4800	4800
P _{smax} [W] (potenza di scarica max.) <i>(max. discharge power)</i>	3600	4800	4800	4800	4800	4800	4800
P _{cmax} [W] (potenza di carica max.) <i>(max. charging power)</i>	3600	4800	4800	4800	4800	4800	4800
N. moduli <i>No. of modules</i>	2						
P _{NINV} [W] (Potenza nominale convertitore bidirezionale) <i>(Nominal converter power Bidirectional)</i>	3600	5000	6000	7000	7600	8000	9600
P _{MAXINV} [W] (Potenza maximale convertiore bidirezionale) <i>(maximal converter power Bidirectional)</i>	3600	5000	6000	7000	7600	8000	9600
S _{MAXINV} [VA] (Potenza maximale convertiore bidirezionale) <i>(maximal converter power Bidirectional)</i>	3960	5500	6600	7700	8360	8800	9600
P _{sn} [W] (potenza di scarica nom.) <i>(nominal discharge power)</i>	3600	5000	6000	7000	7600	8000	9600
P _{cn} [W] (potenza di carica nom.) <i>(nominal charging power)</i>	3600	5000	6000	7000	7600	8000	9600
P _{smax} [W] (potenza di scarica max.) <i>(max. discharge power)</i>	3600	5000	6000	7000	7600	8000	9600
P _{cmax} [W] (potenza di carica max.) <i>(max. charging power)</i>	3600	5000	6000	7000	7600	8000	9600

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N. moduli <i>No. of modules</i>	3 ~ 15						
P_{NINV} [W] (Potenza nominale convertitore bidirezionale) <i>(Nominal converter power Bidirectional)</i>	3600	5000	6000	7000	7600	8000	10000
P_{MAXINV} [W] (Potenza maximale convertiore bidirezionale) <i>(maximal converter power Bidirectional)</i>	3600	5000	6000	7000	7600	8000	10000
S_{MAXINV} [VA] (Potenza maximale convertiore bidirezionale) <i>(maximal converter power Bidirectional)</i>	3960	5500	6600	7700	8360	8800	11000
P_{sn} [W] (potenza di scarica nom.) <i>(nominal discharge power)</i>	3600	5000	6000	7000	7600	8000	10000
P_{cn} [W] (potenza di carica nom.) <i>(nominal charging power)</i>	3600	5000	6000	7000	7600	8000	10000
P_{smax} [W] (potenza di scarica max.) <i>(max. discharge power)</i>	3600	5000	6000	7000	7600	8000	10000
P_{cmax} [W] (potenza di carica max.) <i>(max. charging power)</i>	3600	5000	6000	7000	7600	8000	10000
Tipologia <i>Typology</i>	<input checked="" type="checkbox"/> Bidirezionale / <i>bidirectional</i> <input type="checkbox"/> Monodirezionale / <i>non-bidirectional</i>						
Nota <i>Note</i>	<p>Il convertitore bidirezionale comunica con il BMS della batteria tramite la porta BMS integrata. Il numero/capacità delle batterie collegate viene identificato e P_{NINV}, P_{MAXINV}, S_{MAXINV} (e quindi P_{SN}, P_{CN}, P_{SMAX} e P_{CMAX}) vengono limitati di conseguenza.</p> <p><i>The bidirectional converter communicates with the battery BMS via the integrated BMS port. Number / capacity of the batteries connected will be identified and P_{NINV}, P_{MAXINV}, S_{MAXINV} (and hence the P_{SN}, P_{CN}, P_{SMAX} and P_{CMAX}) will be limited accordingly</i></p>						

Annex to certificate

Batterie utilizzabili con i convertitori statici sopra riportati <i>Batteries that can be used with the above-mentioned static converters</i>		
Marca <i>Brand</i>	V-TAC EXPORTS LIMITED	
Tecnologia <i>Technology</i>	LiFePO4	
Modelli <i>Models</i>	VT-91600	
CUS modulo (kWh) <i>CUS module (kWh)</i>	8,64 (9,60kWh, 90%DOD)	
Versione firmware BMS <i>BMS firmware version</i>	AK11(9.6kWh&ST)_03C_52100_16S_T4_STM32F407VE_V1.0	
N. moduli <i>No. of modules</i>	1 ~ 15	
Nota <i>Note</i>	Le batterie non sono integrate nel convertitore e devono essere installate in conformità con le normative locali. <i>The batteries are not integrated in the converter and must be installed according to local regulations.</i>	
Caratteristiche del generatore rotante <i>Rotating generator characteristics</i>		
-		
Caratteristiche del motore primo <i>Characteristics of the primary engine</i>		
-		
Sistemi ausiliari <i>Auxiliary systems</i>		
Descrizione <i>Description</i>	-	
Riferimenti dei laboratori che hanno eseguito le prove e dei relativi rapporti di prova (RdP) <i>References of the laboratories that carried out the tests and their test reports (TR)</i>		
Metodo prescelto <i>Selected method</i>	<input type="checkbox"/> Prove eseguite da laboratorio Accreditato <i>Tests carried out by an accredited laboratory</i>	<input checked="" type="checkbox"/> Prove eseguite sotto la sorveglianza di un ente certificatore <i>Tests carried out under the supervision of a certification body</i>
Rapporti di prova (RdP) <i>Test reports (TR)</i>	RdP secondo Allegato A /TR according to Annex A: LS2A25022201EGIT01 RdP secondo Allegato B /TR according to Annex B: LS2A25022201EGIT01 RdP secondo Allegato Bbis / TR according to Annex Bbis: LS2A25102303EGIT06 (Batterie Modelli / Battery Model: VT-91600)	
Emessi da <i>Issued by</i>	Lab. accreditato: --- <i>Accredited lab: ---</i>	Lab. di esecuzione delle prove: <i>Testing laboratory:</i> Lyns-tci Technology Guangdong Co., Ltd. Room 1201, Unit 2, Building 18, No. 7, Science and Technology Boulevard, Houjie Town, Dongguan City, Guangdong, 523960 P.R.C Accreditamento A2LA, no. 5200.02, Rif. DIN EN ISO/IEC 17025 <i>A2LA Accreditation no. 5200.02 acc. DIN EN ISO/IEC 17025</i>
N. accreditamento <i>Accreditation No.</i>	---	
Rif. ente accreditamento <i>Accreditation body reference:</i>	---	Prove eseguite sotto la sorveglianza di: <i>Tests carried out under the supervision of:</i> Kiwa Primara GmbH Accreditamento DAkKS, no. D-ZE-12089-01-00, Rif. DIN EN ISO/IEC 17065 <i>DAkKS Accreditation, no. D-ZE-12089-01-00, acc. DIN EN ISO/IEC 17065</i>

Manufacturer's Declaration

DECLARATION OF CONFORMITY WITH CEI 0-21 STANDARD

1. Type of equipment to which the declaration refers

Builder	NingBo Deye Inverter Technology Co., Ltd.			
Equipment type	Interface device	Interface protection	Static conversion device	Rotating generating device
	X	X	X	
Template	SUN-3.6K-SG05LP1-EU/SUN-3.6K-SG05LP1-EU-AM2-P/SUN-3.6K-SG05LP1-EU-SM2-P	SUN-5K-SG05LP1-EU/SUN-5K-SG05LP1-EU-AM2-P/SUN-5K-SG05LP1-EU-SM2-P	SUN-6K-SG05LP1-EU/SUN-6K-SG05LP1-EU-AM2-P/SUN-6K-SG05LP1-EU-SM2-P	SUN-7K-SG05LP1-EU/SUN-7K-SG05LP1-EU-AM2-P/SUN-7K-SG05LP1-EU-SM2-P
Firmware version	Ver 0-5387-1515	Ver 0-5387-1515	Ver 0-5387-1515	Ver 0-5387-1515
Nominal power	3.6KW	5KW	6KW	7KW
Number of phases	Single phases	Single phases	Single phases	Single phases
Note	<p>The device is able to limit the Idc to 0.5% of the rated current.</p> <p>The device is for systems of any power</p> <p>The device uses a DC sensitive protection function</p> <p>The device is bidirectional</p>			
Template	SUN-7.6K-SG05LP1-EU/SUN-7.6K-SG05LP1-EU-AM2-P/SUN-7.6K-SG05LP1-EU-SM2-P/SUN-7.6K-SG05LP1-EU-SM2	SUN-8K-SG05LP1-EU/SUN-8K-SG05LP1-EU-AM2-P/SUN-8K-SG05LP1-EU-SM2-P/SUN-8K-SG05LP1-EU-SM2	SUN-10K-SG05LP1-EU/SUN-10K-SG05LP1-EU-AM2-P/SUN-10K-SG05LP1-EU-SM2-P/SUN-10K-SG05LP1-EU-SM2	
Firmware version	Ver 0-5387-1515	Ver 0-5387-1515	Ver 0-5387-1515	
Nominal power	7.6KW	8KW	10KW	
Number of phases	Single phases	Single phases	Single phases	
Note	<p>The device is able to limit the Idc to 0.5% of the rated current.</p> <p>The device is for systems of any power</p> <p>The device uses a DC sensitive protection function</p> <p>The device is bidirectional</p>			

2. References of the laboratories that carried out the tests and the related test files

Test dossier no:	LS2A25022201EGIT01
Issued by	Lyns-tci Technology Guangdong Co., Ltd.
Accreditation	A2LA Accreditation no. 5200.02 acc. DIN EN ISO/IEC 17025

Additional information:

3. The inverter listed above may be installed with following batteries:

Manufacturer:	V-TAC EXPORTS LIMITED
Battery Model	VT48280 / VT14336W / VT14336B
Capacity per module [kWh]	14.33
CUS module (kWh)	14.33
Number of battery module recommended by the manufacturer	1 ~ 15

4. The inverter listed above may be installed with following batteries:

Manufacturer:	V-TAC EXPORTS LIMITED
Battery Model	VT12040-1 / VT10240W / VT10240B
Capacity per module [kWh]	10.24
CUS module (kWh)	10.24
Number of battery module recommended by the manufacturer	1 ~ 15

5. The inverter listed above may be installed with following batteries:

Manufacturer:	V-TAC EXPORTS LIMITED
Battery Model	VT51201-W / VT51201-B
Capacity per module [kWh]	5.12
CUS module (kWh)	4.608
Number of battery module recommended by the manufacturer	1 ~ 32

6. The inverter listed above may be installed with following batteries:

Manufacturer:	V-TAC EXPORTS LIMITED
Battery Model	VT48200B
Capacity per module [kWh]	9.6
CUS module (kWh)	7.68
Number of battery module recommended by the manufacturer	1 ~ 15

7. The inverter listed above may be installed with following batteries:

Manufacturer:	V-TAC EXPORTS LIMITED
Battery Model	VT-91600
Capacity per module [kWh]	9.6
CUS module (kWh)	8.64
Number of battery module recommended by the manufacturer	1 ~ 15

8. Declaration of conformity with the requirements of CEI 0-21: 2022-03+ V1:2022-11+V2:2024-01

With this declaration, drawn up pursuant to article 47 of Presidential Decree 28 December 2000, number 445, the undersigned DAI YADONG, as representative of the company NingBo Deye Inverter Technology Co., Ltd.No. 26 South YongJing Road, Daqi, Beilun, NingBo, China registered in the business register of the District Court of (City) Ningbo Beilun Market Supervision with registration number 91330200665572062U

DECLARE

that the inverters of its own construction, referred to in point 1 above, comply with the requirements of the CEI 0-21: 2022-03 and variant V1:2022-11 and variant V2:2024-01 Standard. It also certifies that the production of the devices takes place under a quality system (according to ISO 9001:2015.Certificate registration no.50052889 QM15).