Certificato di conformità / *Certificate of conformity*

alle prescrizioni alla Norma CEI 0-21 / *to the requirements of standard CEI 0-21*

Numero di certificato / *Certificate No.*: **LS250148GCC-0**

Data di emissione / *Date of issue*: 2025-11-29

Valido fino a / *Valid until*: Tempo indeterminato / *Indefinitely*

Nome organismo certificatore / *Name of the Certification Body*:
Lyns-tci Technology Guangdong Co., Ltd.
Accreditamen to presso IAS, numero: PCA-159, secondo ISO/IEC 17065 / *Accreditation to IAS, No.: PCA-159, according to ISO/IEC 17065*

Oggetto / *Standard / Guideline*:
[1] 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 rules for the connection of active and passive users to the LV electrical Utilities*

Schema di certificazione / *Certification scheme*:
CMPD-01
(Certificazione di tipo 1a in conformità alla norma ISO/IEC 17067 / *Type 1a Certification in accordance with ISO/IEC 17067*)

Tipo di apparecchiatura a cui si riferisce il certificate / *Type of equipment to which the certificate refers*:

Protezione di Interfaccia / *Interface Protection*	Dispositivo di Interfaccia / *Interface Device*	Dispositivo di conversione statica / *Static conversion device*	Sistema di Accumulo / *Storage System*	Generatore rotante / *Rotating generator*
☒	☒	☒	☒	☐

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

Tipo apparecchiatura / *Type of equipment*:
Inverter ibrido (inverter fotovoltaico con sistema di accumulo lato CC) / *Hybrid inverter (PV inverter with DC-coupled storage)*

Marca / *Brand*:
Deye

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*:	3600 W	5000 W	6000 W	7000 W	7600 W	8000 W	10000 W

(Per ulteriori dettagli, vedere A.2 a pag. 2 / *For further details see A.2 on p.2.*)

Il presente certificato attesta che le unità di generazione sopra indicate e il relativo software sono conformi ai requisiti delle norme e linee guida di riferimento al momento dell'emissione.

Gli inverter non sono dotati di un Sistema di Limitazione dell'Immissione (SLI) integrato per la gestione di potenze nominali superiori a 6 kW. Pertanto, le necessarie misure di limitazione dell'immissione devono essere implementate a livello di impianto. /

This certificate confirms that the above-mentioned generating unit(s) and corresponding software comply with the requirements of the referenced standards and guidelines at the time of issuance.

The inverters are not equipped with an integrated Feed-in Limitation System (SLI) for managing nominal power capacities exceeding 6 kW. Therefore, the required feed-in limitation measures must be implemented at the power plant level.

This certificate is issued as a **Type 1a Certification in accordance with ISO/IEC 17067**. It is based solely on type testing of the identified sample product(s) and the specific tests undertaken. It does not extend to production or ongoing manufacturing.

No certification mark is authorized for this certification scheme. No factory surveillance or follow-up is performed. This certificate becomes **void** if any modification is made to the certified product, its installation, erection, or commissioning that may affect compliance with the evaluated requirements.

This certificate does not imply LYNS's endorsement, approval, certification, or ongoing control of the product(s), either in terms of performance, design, manufacture, or materials used. The certificate and the results stated herein relate solely to the sample product(s) tested and to the specific tests undertaken.

The certificate will remain valid for the stated period provided that no changes are made to the product, production method, or relevant certification scheme. This certificate is only valid when it is also found at http://www.lyns-tci.com/en/certificate-search or by contacting Lyns-tci Technology Guangdong Co., Ltd..

This certificate is for the exclusive use of LYNS's Client and is provided pursuant to the agreement between LYNS and its Client. LYNS's responsibility and liability are limited to the terms and conditions of the agreement. LYNS assumes no liability to any party other than the Client, in accordance with the agreement, for any loss, expense, or damage occasioned by the use of this certification.

The certificate is comprised of 6 pages (including Annex of 5 pages).

Dongguan, 2025-11-29

Digitally signed by Weizhao Zheng
Date: 2025.11.29 15:34:19 +08'00'

Dipl.-Ing. Weizhao Zheng
Head of certification body

IAS ACCREDITED Product Certification Agency
PCA-159

Certification body Lyns-tci Technology Guangdong Co., Ltd. accredited according to ISO/IEC 17065 for product certification.

Release No.: 1.2 (2025)

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Lyns-tci Technology Guangdong Co., Ltd.
Address: Room 1201, Unit 2, Building 18, No. 7, Science and Technology Boulevard, Houjie Town, Dongguan City, Guangdong, 523960 P.R.C
Tel: +86 769 85598986 E-Mail: cb@lyns-tci.com Web: www.lyns-tci.com

Annexe au certificat n°. / *Annex to the Certificate No.*: **LS250148GCC-0**

A.1 Historique de la révision du certificat / *Revision history of the certificate*

Rév. n°. / *Rev. No.*	Date / *Date*	Modifications / *Changes*
0	2025-11-29	Première édition / *Initial issue*

A.2 Données techniques de la (des) unité(s) de génération / *Technical data of the generating unit(s)*

Sez. / Sect. A

I seguenti generatori rispettano le prescrizioni della norma CEI 0-21:2022-03 + V1:2022-11 + V2:2024-01/
The following generators comply with the requirements of the CEI 0-21:2022-03 + 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 / *Type of equipment*	Inverter ibrido (inverter fotovoltaico con sistema di accumulo lato CC) / *Hybrid inverter (PV inverter with DC-coupled storage)*
Marca / *Brand*	Deye
N. fasi / *No. of phases*	☒ Monofase / *Single-phase* ☐ Trifase / *Three-phase* Frequenza / *Frequency*: 50 Hz Tensione / *Voltage*: 230 $V_{a.c.}$ (L + N + PE)
Energia primaria utilizzata	☒ Solare (v. RdP All. B) / *Solar (see report Annex B)* ☒ Accumulo (v. RdP All. Bbis) / *Storage (see report Annex Bbis)* ☐ Eolico (v. RdP All. B/Bter) / *Wind (see report Annex B/Bter)* ☐ Idroelettrico (v. RdP All. B/Bter) / *Hydroelectric (see report Annex B/Bter)* ☐ CHP (v. RdP All. B/Bter) / *Solar (see report Annex B/Bter)* ☐ 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*	3600 W	5000 W	6000 W	7000 W	7600 W	8000 W	10000 W

Il generatore / *The generator*

☐ è idoneo per installazione in impianti con potenza superiore a 11,08 kW / *is suitable for installation in systems with power greater than 11.08 kW*

☒ È in grado di limitare la Idc allo 0,5% della corrente nominale / *can limit I_{dc} to 0.5% of rated current*

☒ utilizza una funzione di protezione sensibile alla corrente continua / *uses a DC-sensitive protection function*

☐ utilizza un trasformatore operante alla frequenza di rete / *uses a transformer operating at mains frequency*

Annexe au certificat n°. / *Annex to the Certificate No.*: **LS250148GCC-0**

Sez. / Sect. B	**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*	☒ Integrata / *Integrated*			☐ Non integrata / *Non-integrated*			
Sez. / Sect. C	**Caratteristiche del convertitore static / *Characteristics of the static converter***							
	Modello del convertitore static / *Static converter 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
	Costruttore del convertitore static / *Static converter manufacturer*	**NingBo Deye Inverter Technology Co., Ltd.**						
	Versione firmware / *Firmware version*	**Ver 0-5387-1515**						
	Potenza nominale convertitore / Nominal converter power (P_{NINV})	3600 W	5000 W	6000 W	7000 W	7600 W	8000 W	10000 W
Sez. / Sect. D	**Convertitore statico utilizzato con generatori rotanti / *Static converter used with rotating generators***							
	☐ il convertitore è stato testato con la fonte primaria (generatore rotante, motore primo), oppure / *the converter was tested with the primary source (rotary generator, prime mover), or*:							
	☐ il convertitore assorbe energia costante da fonte primaria durante B.1.1 e B.1.3 / *the converter absorbs constant energy from the primary source during B.1.1 and B.1.3*							

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Sez. / *Sect.* E

Caratteristiche del Sistema di Accumulo (SdA) / *Characteristics of the Storage System*

Nota / *Note*

P_{NINV}: Potenza nominale convertitore / Converter rated power

P_{MAXINV}: max. potenza attiva di uscita del convertitore / *max. output active power of the converter*

S_{MAXINV}: max. potenza apparente di uscita del convertitore / *max. output apparent power of the converter*

P_{sn}: potenza di scarica nom. / *nom. discharging power*

P_{cn}: potenza di carica nom. / *nom. charging power*

P_{smax}: potenza di scarica max. / *max. discharging power*

P_{cmax}: potenza di carica max. / *max. charging power*

P_{NINV} è un valore nominale definito dal costruttore, al quale le unità possono fornire una potenza reattiva corrispondente a cosφ = 0,9. P_{NINV} è anche utilizzato come base per il controllo del set point di potenza attiva in %.

In assenza di ulteriori limitazioni, le unità possono fornire una potenza attiva pari a P_{MAXINV} (potenza attiva massima in uscita in CA, numericamente uguale alla potenza apparente massima in uscita (S_{MAXINV}) delle unità).

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 come segue /

P_{NINV} is a nominal value defined by manufacturer, at which the units can provide a reactive power supply corresponding to cosφ = 0,9. P_{NINV} is also used as base for active power set point control in %.

If no additional limitation the units can provide active power of P_{MAXINV} (max. AC output active power, which numerically equal to the max. output apparent power (S_{MAXINV}) of the units).

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 as follows:

Modello del convertitore static / *Static converter 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
N. moduli batteria collegati / *No. battery modules connected*							
P_{NINV} [W]	3600	5000	6000	7000	7600	7680	7680
P_{MAXINV} [W]	3600	5000	6000	7000	7600	7680	7680
S_{MAXINV} [VA]	3960	5500	6600	7680	7680	7680	7680
P_{sn} [W]	3600	5000	6000	7000	7600	7680	7680
P_{cn} [W]	3600	5000	5120	5120	5120	5120	5120
P_{smax} [W]	3600	5000	6000	7000	7600	7680	7680
P_{cmax} [W]	3600	5000	5120	5120	5120	5120	5120
Tipologia / *Typology*	☒ Bidirezionale / *Bidirectional*			☐ Monodirezionale / *Monodirectional*			

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	Batterie utilizzabili con i convertitori statici sopra riportati / *Batteries that can be used with the above static converters*	
	Marca / *Brand*	SHENZHEN GSL TECH CO.,LTD
	Tecnologia / *Technology*	LiFePO4
	Modelli / *Models*	GSL051200A-B-GBP2
	CUS modulo / *module* (kWh)	8,192 (10,24kWh, 80%DOD)
	Versione firmware BMS / *BMS firmware version*	GSL-S16A200-02
	N. moduli / No. modules	1 ~ 16
	Nota / *Note*	Le batterie non sono integrate nel convertitore e devono essere installate in conformità alle normative locali. / *The batteries are not integrated in the converter and must be installed according to local regulations.*
Sez. / *Sect. F*	**Caratteristiche del generatore rotante / *Characteristics of the rotating generator***	
	Tipologia generatore / *Generator type*	☐ Sincrono / *Synchronous* ☐ Asincrono / *Asynchronous*
	Modello del gen. Rotante / *Rotating gen. model*	---
	Costruttore gen. rotante / *Rotating gen. manufacturer*	---
	Regolatore di tensione / *Voltage regulator*	---
	Versione firmware reg. / *Reg. firmware version*	---
	Sistema di regolazione della potenza reattiva (generatori asincroni) / *Reactive power regulation system (asynchronous generators)*	---
Sez. / *Sect. G*	**Caratteristiche del motore primo / *Characteristics of the prime engine***	
	Modello motore primo / *Prime engine model*	---
	Costruttore motore primo / *Engine manufactuerer*	---
	Regolatore di velocità / *Speed controller*	---
	Versione firmware reg. / *Reg. firmware version*	---
Sez. / *Sect. H*	**Sistemi ausiliari / *Auxiliary systems***	
	Descrizione / *Description*	---

Annexe au certificat n°. / *Annex to the Certificate No.*: **LS250148GCC-0**

Sez. / *Sect.* I	**Riferimenti dei laboratori che hanno eseguito le prove e dei relativi rapporti di prova (RdP) / *References of the laboratories that performed the tests and their test reports***		
	Metodo prescelto / *Selected method*	☒ Prove eseguite da laboratorio accreditato / *Testing by accredited laboratory*	☐ Prove eseguite sotto la sorveglianza di un ente certificatore / *Tests carried out under the supervision of a certification body*
	Rapporti di prova (RdP) / *Test report*	a. RdP secondo Allegato A / *Test report acc. Annex A*: **LS2A25022201EGIT01** RdP secondo Allegato B / *Test report acc. Annex B*: **LS2A25022201EGIT01** b. RdP secondo Allegato Bbis / *Test report acc. Annex Bbis*: **LS2A25102303EGIT03** **(**Per il modello di batteria / *for battery model*: **GSL051200A-B-GBP2)**	
	Emessi da / *Issued by*	Lab. Accreditato / *Accredited lab*: **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. China	Lab. di esecuzione delle prove / *Test laboratory*: --- Prove eseguite sotto la sorveglianza di / *Tests performed under supervision of*: ---
	N. accreditamento / *Accreditation No.* Rif. ente accreditamento / *Accreditation body ref.*	n. 5200.02 accreditato secondo la norma ISO/IEC 17025 / *no. 5200.02 accredited according to ISO/IEC 17025* A2LA	