


Certificate No.: LS260100GCC-0

Date of issue: 2026-04-30

Valid until: Indefinitely

Applicant:	NingBo Deye Inverter Technology Co.,Ltd. No.26 South Yongjiang Road, Daqi, Beilun, Ningbo, China
Product:	Hybrid inverter with integrated AFPE function
Model(s):	SUN-3K-SG04LP1-24-EU, SUN-3K-SG04LP1-EU, SUN-3.6K-SG04LP1-EU, SUN-5K-SG04LP1-EU, SUN-6K-SG04LP1-EU; SUN-3K-SG04LP1-24-EU-SM1, SUN-3K-SG04LP1-EU-SM1; SUN-3.6K-SG04LP1-EU-SM2, SUN-5K-SG04LP1-EU-SM2, SUN-6K-SG04LP1-EU-SM2
Trademark:	
Technical data:	Nominal active output power [W]: 3000 - 6000 Nominal output AC voltage [V]: 220 / 230 (L + N + PE, 50 / 60 Hz) (For further details see A.2 on p.2)
Software version:	Ver 0-4388-1516
Applied standard(s) / guideline(s):	IEC 63027:2023 Photovoltaic power systems - DC arc detection and interruption
Certification scheme:	CMPD-01 (Type 1a Certification in accordance with ISO/IEC 17067)
Test report no.:	LS2A26012201EGIE04 (2026-04-19)

This certificate confirms that the integrated AFPE function of the inverter models listed above was evaluated and found to comply, within the scope defined herein, with the applicable requirements of IEC 63027:2023 at the time of issuance.

The scope of this certificate is limited to the inverter-integrated AFPE for string-inverter application in accordance with Annex B.2 of IEC 63027:2023. The certified scope covers the applicable classification, ratings, product information, construction and performance requirements, series arc fault tests, self-test function, and manual reconnection requirements, as documented in the relevant test report.

No conformity is implied for micro-inverter application, module-level DC/DC conversion application, or external combined-string application.

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 3 pages (including Annex of 2 pages).

Dongguan, 2026-04-30

Dipl.-Ing. Weizhao Zheng
Head of certification body

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

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A.1 Revision history of the certificate

Rev. No.	Date	Changes	Status
0	2026-04-30	Initial issue	Active

A.2 Technical data of the power generating unit(s)

Model	SUN-3K-SG04LP1-24-EU		SUN-3K-SG04LP1-EU
	SUN-3K-SG04LP1-24-EU-SM1		SUN-3K-SG04LP1-EU-SM1
Input PV (DC)			
Max. DC input voltage [V]	500		
Operating MPPT voltage range [V]	150 - 425		
Max. input DC current [A]	18		
Max. Short Circuit current [A]	27		
No. of MPP Trackers	1		
No. of strings per MPP Tracker	1		
Input Battery			
Battery voltage range (V)	20 - 30	40 - 60	
Max. charging / discharge current (A)	140	70	
Battery type	Lead-acid or Lithium-ion		
Output (AC)			
Rated output AC voltage [V]	220 / 230 (L + N + PE, 50 / 60 Hz)		
Max. Output AC current [A]	"-EU" model:	15.0 / 14.3	
	"-EU-SM1" model:	15.0 / 14.4	
Rated active power [W]	3000		
Max. apparent power [VA]	3300		
AFPE / AFCI classification	F-I-AFPE-1-1-1		

Model	SUN-3.6K-SG04LP1-EU		SUN-5K-SG04LP1-EU	SUN-6K-SG04LP1-EU
	SUN-3.6K-SG04LP1-EU-SM2		SUN-5K-SG04LP1-EU-SM2	SUN-6K-SG04LP1-EU-SM2
Input PV (DC)				
Max. DC input voltage [V]	500			
Operating MPPT voltage range [V]	150 - 425			
Max. input DC current [A]	18 / 18			
Max. Short Circuit current [A]	27 / 27			
No. of MPP Trackers	2			
No. of strings per MPP Tracker	1			
Input Battery				
Battery voltage range (V)	40 - 60			
Max. charging / discharge current (A)	90	120	135	
Battery type	Lead-acid or Lithium-ion			
Output (AC)				
Rated output AC voltage [V]	220 / 230 (L + N + PE, 50 / 60 Hz)			
Max. Output AC current [A]	"-EU" model:	18.0 / 17.2	25.0 / 23.9	30.0 / 28.7
	"-EU-SM1" model:	18.0 / 17.3	25.0 / 24.0	30.0 / 28.7

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Rated active power [W]	3600	5000	6000
Max. apparent power [VA]	3960	5500	6600
AFPE / AFCI classification	F-I-AFPE-1-2-1		
Operating temperature range	-40°C - 60°C		
Degree of protection	IP65		
Protection class	I		
Overvoltage category	AC: III; DC: II		
Topology	No galvanic isolation		
Software version	Ver 0-4388-1516		
Manufacturing factory	NingBo Deye Inverter Technology Co.,Ltd. No.26 South YongJiang Road, Daqi, Beilun, Ningbo, China		

A.3 Remarks for type testing

Testing laboratory	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 (Accredited acc. ISO/IEC 17025: A2LA Accreditation no. 5200.02)
Testing location	Same as above
Measurement period	2026-01-22 - 2026-03-18