


Certificate No.: **LS250018GCC-0**

Date of issue: 2025-03-12

Valid until: Indefinitely

Applicant:	Shenzhen SOFARSOLAR Co., Ltd. 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, P.R.China
Product:	Hybrid Inverter (PV + DC coupled storage)
Model(s):	ESI-5K-T1, ESI-6K-T1, ESI-6.5K-T1, ESI-8K-T1, ESI-9.9K-T1-A, ESI-10K-T1; ESI-12K-T1
Trademark:	
Technical data:	Nominal active output power [kW]: 5.0 ~ 12.0 Nominal output AC voltage [V]: 230 / 400 (3L + N + PE, 50 Hz) (For further details see A.2 on p.2)
Software version:	V000001
Applied standard(s) / guideline(s):	IEC 62116:2014 Utility-interconnected photovoltaic inverters – Test procedure of islanding prevention measures
Certification scheme:	CMPD-01
Test report no.:	HC2411270269GC04 (2025-02-20)

This certificate confirms that the above-mentioned generating unit(s) with corresponding software meet the requirements of the referenced standard(s) / guideline(s) at the time of issuance of the certificate.

This certificate relates to type testing and does not imply LYNS's endorsement, approval, certification or on-going control of the product(s), either in terms of performance, design, manufacture or materials used. This 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 providing no changes are made to the product, production method etc. This certificate is only valid when this is also found at <http://www.lyns-tci.com/en/certificate-search> or contact Lyns-tci Technology Guangdong Co., Ltd..

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The certificate is comprised of 2 pages (including Annex of 1 pages).

Dongguan, 2025-03-12

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 (LS250018GCC-0)	2025-03-12	Initial issue	Active

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

Model	ESI-5K-T1	ESI-6K-T1	ESI-6.5K-T1	ESI-8K-T1
Input PV (DC)				
Max. DC input voltage [V]	1000			
Operating MPPT voltage range [V]	160 ~ 950			
Max. input DC current [A]	20 / 20 / 20			
Input battery (DC)				
Voltage range [V]	350 ~ 435			
Max. charging current [A]	max. 25.0			
Max. discharging current [A]	max. 15.0	max. 18.0	max. 19.5	max. 24.0
Battery type	Lithium-ion			
Output (AC)				
Rated output AC voltage [V]	230 / 400 (3L + N + PE, 50 Hz)			
Max. Output AC current [A]	8.0	9.6	10.3	12.8
Rated active power [kW]	5.0	6.0	6.5	8.0
Max. apparent power [kVA]	5.5	6.6	7.15	8.8

Model	ESI-9.9K-T1-A	ESI-10K-T1	ESI-12K-T1
Input PV (DC)			
Max. DC input voltage [V]	1000		
Operating MPPT voltage range [V]	160 ~ 950		
Max. input DC current [A]	20 / 20 / 20		
Input battery (DC)			
Voltage range [V]	350 ~ 435		
Max. charging current [A]	max. 25.0		
Max. discharging current [A]	max. 29.7	max. 30.0	max. 30.0
Battery type	Lithium-ion		
Output (AC)			
Rated output AC voltage [V]	230 / 400 (3L + N + PE, 50 Hz)		
Max. Output AC current [A]	14.3	15.9	19.1
Rated active power [kW]	9.9	10.0	12.0
Max. apparent power [kVA]	9.9	11.0	13.2

Operating temperature range	-30°C ~ +60°C
Degree of protection	IP66 (according to EN 60529)
Protection class	I (according to IEC 62109-1)
Over voltage category	AC: III; DC: II (according to IEC 62109-1)
Topology	No galvanic isolation
Software version	V000001

A.3 Remarks for type testing

Testing laboratory	Lyns-tci Technology Guangdong Co., Ltd. 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	2024-12-04 - 2025-01-21