Ginlong Technologies Co., Ltd.
No. 57 Jintong Road,
Binhai Industrial Park - Xiangshan
Ningbo - Zhejiang Province, 315712 - P.R. China
Tel: (+86) 574 6580 2188 - info@ginlong.com

Dichiarazione di conformità alle prescrizioni della Norma CEI 0-16
Declaration of Conformity to Requirements of the Standard CEI 0-16

TIPOLOGIA DI APPARATO CUI SI RIFERISCE LA DICHIARAZIONE:
Type of Device to Which This Declaration Refers:

DISPOSITIVO DI INTERFACCIA Interface Device	**PROTEZIONE DI INTERFACCIA** Interface Protection	**DISPOSITIVO DI CONVERSIONE STATICA** Static Conversion Device	**DISPOSITIVO DI GENERAZIONE ROTANTE** Rotary Generating Device
Sì/Yes	Sì/Yes	Sì/Yes	No

COSTRUTTORE: Manufacturer	**MODELLO DI INVERTER:** Inverter Model	**VERSIONE FIRMWARE:** Firmware Version	**NUMERO DI FASI (monofase/trifase)** Number of Phase (Single/Three Phase)	**POTENZA NOMINALE:** Rated Power [W]
Ginlong Technologies Co., Ltd. No. 57 Jintong Road, Binhai Industrial Park - Xiangshan Ningbo - Zhejiang Province, 315712 - P.R. China	S6-GC80K	A1 e superiore/and upper	Trifase/Three-Phase	80000
	S6-GC100K			100000
	S6-GC110K			110000
	S6-GC125K			125000

Il generatore *– The generator:*
☐ ***è idoneo per installazione in impianti con potenza inferiore o uguale a 400 kW*** *- It is suitable for installation in systems with a power of 400 kW or less.*
Il generatore *– The generator:*
✓ ***è idoneo per installazione in impianti con potenza superiore a 400 kW*** *- It is suitable for installation in systems with a power greater than 400 kW*

Esaminati i Fascicoli Prove n°CN24NKF1 001, emessi dal laboratorio TÜV Rheinland (Shanghai) Co., Ltd. con accreditamento DAkkS (D-ZE-14169-01-02)
Ai sensi degli articoli 46 e 47 del DPR 28 Dicembre 2000, n° 445, il sottoscritto Yiming Wang, in qualità di legale rappresentante di Ginlong Technologies Co., Ltd. - No. 57 Jintong Road - Binhai Industrial Park - Xiangshan - Ningbo - Zhejiang Province - China, dichiara che il prodotto indicato è conforme alle prescrizioni CEI-0-16:2022-03 e CEI 0-16:V1:2022-11, CEI 0-16;V2:2023-05,CEI 0-16;V3:2024-01

Taken into account test report No. CN24NKF1 001 issued by test lab TÜV Rheinland (Shanghai) Co., Ltd. with DAkkS accreditation (No. D-ZE-14169-01-02)
According with the articles 46 and 47 of Italian DPR 28 December 2000, n° 445, the undersigned Yiming Wang, as legal representative of Ginlong Technologies Co., Ltd. - No. 57 Jintong Road - Binhai Industrial Park - Xiangshan - Ningbo - Zhejiang Province - China, hereby declares that the product complies with the requirements of CEI-0-16:2022-03 e CEI 0-16:V1:2022-11, CEI 0-16;V2:2023-05,CEI 0-16;V3:2024-01

DATA 02/07/2025
DATE 02/07/2025

FIRMA LEGALE RAPPRESENTANTE
SIGNATURE LEGAL REPRESENTATIVE

I hereby certify,that the above is the true signature,subscribed in my presence,of

Mr.Yiming Wang, born on April 13,1981,business address No.57 Jintong Road, Binhai Industrial Park, Xiangshan, Ningbo, Zhejiang Province, China, identified himself by submission of his valid government-issued photo identification

Acting on behalf of Ginlong Technologies Co., Ltd. as Chief Executive Officer under the document

Dichiarazioni di conformit_Declaration_of_Comformity_CEI_0-16_S6-GC(80-125)K

Grandall Law Firm (Beijing)

July 24, 2025

CERTIFICATE
of Conformity

TÜVRheinland®

Registration No.: A3 50634282 0001

Report No.: CN24NKF1 001

Holder:
Ginlong technologies Co., Ltd.
No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Product:
PV-Inverter
(Grid-Connected PV Inverter)

Identification:

Type Designation : S6-GC50K-LV , S6-GC60K-LV , S6-GC75K-LV ,
S6-GC80K , S6-GC100K , S6-GC110K ,
S6-GC125K , S6-GC125K-HV
Serial Number : 120030199180010
Firmware version : A1
Remark(s) : Refer to report CN24NKF1 001 for details.

Tested acc. to:

CEI 0-16:2022-03
CEI 0-16; V1:2022-11
CEI 0-16; V2:2023
CEI 0-16; V3:2024-01/01.24

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Durch die DAkkS nach
DIN EN ISO/IEC 17065:2013
akkreditierte Zertifizierungsstelle.
Die Akkreditierung gilt nur für den in der
Urkundenanlage D-ZE-14169-01-02
aufgeführten Akkreditierungsumfang.

Certification Body

Date 19.07.2024

A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

10/020 d 04.08 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

OGGETTO: Dichiarazione di conformità alla normativa CEI 0-16:2022-03, CEI 0-16; V1:2022-11, CEI 0-16 V2:2023 e CEI 0-16;V3:2024-01
"Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti AT ed MT delle imprese distributrici di energia elettrica"
SUBJECT: *Declaration of Conformity to CEI 0-16:2022-03, CEI 0-16; V1:2022-11, CEI 0-16 V2:2023 and CEI 0-16;V3:2024-01*
"Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company"

Certificate No.: A3 50634282 0001

TIPOLOGIA DI APPARATO A CUI SI RIFERISCE LA DICHIARAZIONE:
TYPE OF APPARATUS WHICH THE DECLARATION IS REFERED TO:

DISPOSITIVO DI INTERFACCIA Interface Device	PROTEZIONE DI INTERFACCIA Interface Protection Device	DISPOSITIVO DI CONVERSIONE STATICA Static Conversion Device	DISPOSITIVO DI GENERAZIONE ROTANTE Rotating Device
☒	☒	☒	☐

Titolare della licenza
License Holder

Ginlong technologies Co., Ltd.
No.57 Jintong Road, Binhai, (seafront), Industrial Park, Xiangshan Ningbo 315712 Zhejiang, P.R. China

Modello/Tipo *Model/Type*	S6-GC50K-LV	S6-GC60K-LV	S6-GC75K-LV	S6-GC80K	S6-GC100K
Potenza Attiva Nominate (P_{NINV}) *Nominal Power [kW]*	50	60	75	80	100
Max. Potenza Apparente (S_{MAX}) *Maximum Apparent Power [kVA]*	55	66	75	88	110

Modello/Tipo *Model/Type*	S6-GC110K	S6-GC125K	S6-GC125K-HV
Potenza Attiva Nominate (P_{NINV}) *Nominal Power [kW]*	110	125	125
Max. Potenza Apparente (S_{MAX}) *Maximum Apparent Power [kVA]*	121	125	137.5

TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

DAkkS Deutsche Akkreditierungsstelle D-ZE-14169-01-02

TÜVRheinland® Precisely Right.

OGGETTO: Dichiarazione di conformità alla normativa CEI 0-16:2022-03, CEI 0-16; V1:2022-11, CEI 0-16 V2:2023 e CEI 0-16;V3:2024-01
"Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti AT ed MT delle imprese distributrici di energia elettrica"
SUBJECT: *Declaration of Conformity to CEI 0-16:2022-03, CEI 0-16; V1:2022-11, CEI 0-16 V2:2023 and CEI 0-16;V3:2024-01*
"Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company

Certificate No.: A3 50634282 0001

Firmware release *Firmware*	A1
Numero di Fasi *Number of phases*	Trifase Three Phases
Potenza massima dell'impianto di destinazione: *Maximum power of the destination plant:*	☐ P_{plant} < 400 kW ☒ P_{plant} ≥ 400 kW
laboratorio di prova *Test laboratory*	TÜV Rheinland (Shanghai) Co., Ltd. Accreditation CNAS no. L3038

Esaminati I Fascicoli Prove N.: CN24NKF1 001 emesso da TÜV Rheinland (Shanghai) S.r.l.
Having assessed the Test Files N. CN24NKF1 001 issued by TÜV Rheinland (Shanghai) Co., Ltd.

Si dichiara che i prodotti indicati soddisfano i requisiti della CEI 0-16:2022-03, CEI 0-16; V1:2022-11, CEI 0-16 V2:2023 e CEI 0-16;V3:2024-01 "Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti AT ed MT delle imprese distributrici di energia elettrica"
We declare that the products indicated meet the requirements laid down by CEI 0-16:2022-03, CEI 0-16; V1:2022-11, CEI 0-16 V2:2023 and CEI 0-16;V3:2024-01 "Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company"

Validità della Dichiarazione *Validity of the Declaration*	Questa Dichiarazione è valida per i prodotti indicate, cosl come descritt nei Fascicoli citati. Nuovi requisiti o emendamenti a requisiti esistenti, cosl come modifiche al prodotto, possono implicare nuove verifiche e certificazioni. *This Declaration is valid only for the products indicated herein, as described in the Files mentioned. New requirements or amendment to existing ones, or modifications to the product, may imply re-verification and re-certification.*

Data: 19.07.2024
Date:

Firma
Signature :

A. Chen
Certificatore

TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

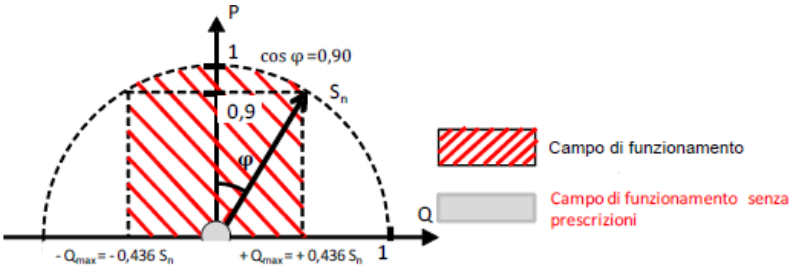
DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-14169-01-02

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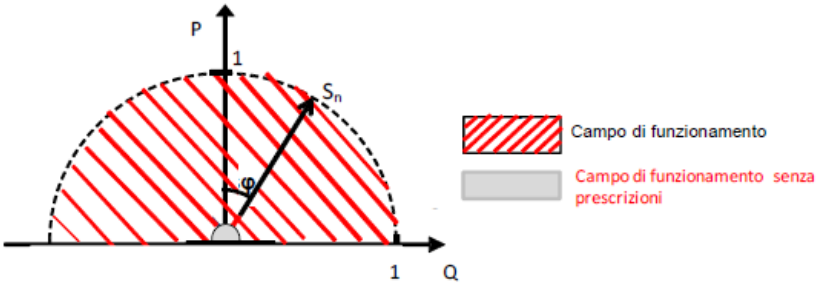
N. 6 Verifica dei requisiti costruttivi circa lo scambio di potenza reattiva ***/Reactive power capability***				
Test	**Ref. CEI 0-16**	**Ref. standard**	**Result**	**Sample**
Verifica della capability di erogazione della potenza reattiva */reactive power production capability*	N.6.1	CEI 0-16:2022-03 CEI 0-16; V1:2022-11 CEI 0-16; V2:2023 CEI 0-16;V3:2024-01/01.24	P	S6-GC125K
Scambio di potenza reattiva secondo un livello assegnato */Reactive power production according to an assigned level*	N.6.2 Annex I	CEI 0-16:2022-03 CEI 0-16; V1:2022-11 CEI 0-16; V2:2023 CEI 0-16;V3:2024-01/01.24	Note[2]	Note[2]
Tempo di risposta ad una variazione a gradino del livello assegnato */Reaction time after a step variation of the assigned level.*	N.6.2.1	CEI 0-16:2022-03 CEI 0-16; V1:2022-11 CEI 0-16; V2:2023 CEI 0-16;V3:2024-01/01.24	Note[2]	Note[2]
Regolazione automatica di potenza reattiva secondo una curva caratteristica cosφ = f(P) */Automatic reactive power production according to a characteristic curve cos(phi)=f(P)*	N.6.3	CEI 0-16:2022-03 CEI 0-16; V1:2022-11 CEI 0-16; V2:2023 CEI 0-16;V3:2024-01/01.24	Note[2]	Note[2]
Erogazione/assorbimento automatico di potenza reattiva secondo una curva caratteristica Q=f(V) applicabile a generatori con capability rettangolare */Automatic reactive power production according to a characteristic curve Q=f(V)*	N.6.4	CEI 0-16:2022-03 CEI 0-16; V1:2022-11 CEI 0-16; V2:2023 CEI 0-16;V3:2024-01/01.24	Note[2]	Note[2]

Note[2] Refer to CEI 0-21 Report CN24PN7H 001 issued by TÜV Rheinland (Shanghai) Co., Ltd

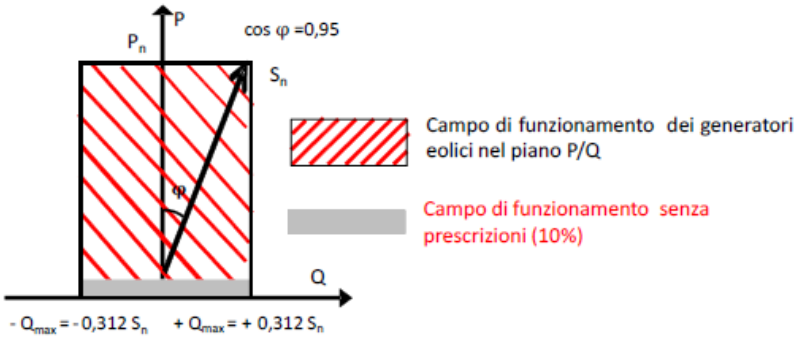
N.6.1 Verifica della capability di erogazione della potenza reattiva ***/reactive power production capability***	
Ambient temperature (°C) .....:	25 °C ± 5 °C
Humidity (RH %) .....:	65%
Instrumentation list.....:	See table "Measurement equipment and instrumentation"
Uncertainty .....:	See table "Metodi di prova/Testing methods"
Potenza massima dell'impianto di destinazione: *Maximum power of the destination plant:*	☐ PV $_{plant}$ < 400 KW *(see picture 1A)* ☒ PV $_{plant}$ ≥ 400 KW *(see picture 1B)* ☐ Wind generator *(see picture 1C)*



Picture 1A



Picture 1B



Picture 1C

For each of the 11 levels of active power, 1 values of inductive reactive power and 1 values of capacitive reactive power must be recorded, as averaged values in 1 min, based on the measurements at the fundamental frequency in a window of 200ms.

Operator .....:	See Cover Page
Supervisor .....:	See Cover Page
Test Date.....:	See Cover Page

N.6.1.1 Modalità di esecuzione e registrazione della prova applicabile a generatori statici
/ test execution and recording modes (applicable to static generators)

The DUT is set so that it can absorb (inductive behavior) and deliver (capacitive behavior) the maximum reactive power available in each of the active power bins (0%, 10%, …, 100%).
The input power is set such that the DUT can deliver the maximum active power.

The maximum absorption capability (Q min) and delivery (Qmax) of reactive power resulting from the sequence of the above measures and that for Q = 0 has to be documented in tabular form.
The test is passed successfully if the detected value of maximum reactive power, reported in a P-Q diagram, is external or at least coincident with the perimeter of the minimum capability of Picture 1B.

For each measured point, a maximum deviation of reactive power AQ ≤ ± 5% of the rated apparent power is allowed.
Values are measured as 1-min average.

Table 6.1.1a: Maximum capability P-Q (Q=0)

Power-Bin	Active power		Reactive Power		DC Power		Power Factor
	[W]	p.u.	[VA]	p.u.	[W]	p.u.	
0% ±5%	-0.71	0.00%	1742.31	1.39%	176.66	0.14%	0.00
10% ±5%	12620.23	10.10%	2951.63	2.36%	13059.11	10.45%	0.97
20% ±5%	25280.25	20.22%	2579.53	2.06%	25900.08	20.72%	1.00
30% ±5%	37904.25	30.32%	2607.17	2.09%	38787.97	31.03%	1.00
40% ±5%	50573.73	40.46%	2633.36	2.11%	51763.42	41.41%	1.00
50% ±5%	63233.03	50.59%	2659.81	2.13%	64763.70	51.81%	1.00
60% ±5%	75858.38	60.69%	2704.82	2.16%	77810.67	62.25%	1.00
70% ±5%	88507.06	70.81%	2771.69	2.22%	90897.73	72.72%	1.00
80% ±5%	101123.22	80.90%	2879.29	2.30%	103976.15	83.18%	1.00
90% ±5%	113095.13	90.48%	3004.75	2.40%	116321.72	93.06%	1.00
100% ±5%	125563.43	100.45%	3093.94	2.48%	129241.99	103.39%	1.00

Table 6.1.1b: Maximum capability P-Q (Q=$Q_{max|cap}$)

Power-Bin	Active power		Reactive Power		DC Power		Power Factor
	[W]	p.u.	[VA]	p.u.	[W]	p.u.	
0% ±5%	2239.64	1.79%	126221.15	100.98%	5599.00	4.48%	0.02
10% ±5%	13362.60	10.69%	124717.61	99.77%	16816.61	13.45%	0.10
20% ±5%	25948.98	20.76%	123219.73	98.58%	29473.92	23.58%	0.20
30% ±5%	39698.29	31.76%	118312.39	94.65%	43114.45	34.49%	0.32
40% ±5%	50967.35	40.77%	114812.17	91.85%	54467.26	43.57%	0.40
50% ±5%	63465.42	50.77%	108733.89	86.99%	66967.27	53.57%	0.50
60% ±5%	75934.91	60.75%	100137.02	80.11%	79444.75	63.56%	0.60
70% ±5%	89677.09	71.74%	87798.71	70.24%	93199.90	74.56%	0.71
80% ±5%	101947.58	81.56%	72801.11	58.24%	105503.80	84.40%	0.81
90% ±5%	113452.66	90.76%	53488.86	42.79%	117036.45	93.63%	0.90
100% ±5%	124915.54	99.93%	3210.60	2.57%	128628.09	102.90%	1.00

Table 6.1.1c: Maximum capability P-Q (Q=Qmax\|ind)

Power-Bin	Active power		Reactive Power		DC Power		Power Factor
	[W]	p.u.	[VA]	p.u.	[W]	p.u.	
0% ±5%	-2298.12	-1.84%	-123130.96	-98.50%	1280.34	1.02%	-0.02
10% ±5%	12868.75	10.29%	-122926.38	-98.34%	16550.16	13.24%	0.11
20% ±5%	25533.62	20.43%	-120587.26	-96.47%	29265.83	23.41%	0.21
30% ±5%	37486.32	29.99%	-117934.40	-94.35%	41198.77	32.96%	0.31
40% ±5%	50940.06	40.75%	-112905.27	-90.32%	54666.51	43.73%	0.41
50% ±5%	63576.46	50.86%	-106404.52	-85.12%	67287.54	53.83%	0.52
60% ±5%	73580.94	58.86%	-100429.67	-80.34%	77370.21	61.90%	0.59
70% ±5%	85955.53	68.76%	-87888.22	-70.31%	89585.64	71.67%	0.70
80% ±5%	98808.92	79.05%	-74090.65	-59.27%	102506.66	82.01%	0.80
90% ±5%	111743.08	89.39%	-49355.12	-39.48%	115365.57	92.29%	0.92
100% ±5%	125038.40	100.03%	-3214.64	-2.57%	128774.62	103.02%	1.00

Figure 6.1.1 Reactive Power capability of the product

