



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 0-16:2022-03
Declaration of Conformity to Requirements of the Standard CEI 0-16: 2022-03

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

DISPOSITIVO DI INTERFACCIA <i>Interface Device</i>	PROTEZIONE DI INTERFACCIA <i>Interface Protection</i>	DISPOSITIVO DI CONVERSIONE STATICA <i>Static Conversion Device</i>	DISPOSITIVO DI GENERAZIONE ROTANTE <i>Rotary Generating Device</i>
<i>Si/Yes</i>	<i>Si/Yes</i>	<i>Si/Yes</i>	<i>No</i>

COSTRUTTORE: <i>Manufacturer</i>	MODELLO DI INVERTER: <i>Inverter Model</i>	VERSIONE FIRMWARE: <i>Firmware Version</i>	NUMERO DI FASI (monofase/trifase) <i>Number of Phase (Single/Three Phase)</i>	POTENZA NOMINALE: <i>Rated Power [W]</i>
Ginlong Technologies Co., Ltd. No. 57 Jintong Road, Binhai Industrial Park - Xiangshan Ningbo - Zhejiang Province, 315712 - P.R. China	S5-GC50K	DE e superiore/and upper	Trifase/Three-Phase	50000
	S5-GC60K			60000

NOTA: Il dispositivo è in grado di limitare la I_{dc} allo 0,5% della corrente nominale.
Note: The device is capable to limit I_{dc} to 0.5% of the rated current.

Esaminati i Fascicoli Prove n°CN21KXQ5 001, emessi dal laboratorio TÜV Rheinland Product Service GmbH 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.

Taken into account test report No. CN21KXQ5 001 issued by test lab TÜV Rheinland certification and Testing (China) Co., Ltd. Guangzhou Branch 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

DATA 01/12/2022
DATE 01/12/2022

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_2022-03_S5-GC(50-60)K_REV.00.

Grandall Law Firm (Beijing)

December 6, 2022

Handwritten signature in black ink, consisting of three characters: '王', '毅', '明' (Wang Yiming).

C E R T I F I C A T E

of Conformity

Registration No.: AK 50528857 0001

Report No.: CN21KXQ5 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-Interactive PV Inverter)

Identification: Type Designation: S5-GC50K S5-GC60K
Serial Number : Engnieer Sample
Firmware Version: VDE
Remark : Refer to test report CN21KXQ5 001 for
detail.

Tested acc. to: CEI 0-16:2019

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.



Date 24.12.2021


Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Ginlong technologies Co., Ltd.
Zhang Kun

Date : 24.12.2021
Our ref. : LIUPHI 01
Your ref.: Kun Zhang

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

Ref : AK Certificate of Conformity

Type of Equipment : Grid-Interactive PV Inverter
Model Designation : See Certificate
Certificate No. : AK 50528857 0001
Report No. : CN21KXQ5 001

Dear Zhang Kun,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

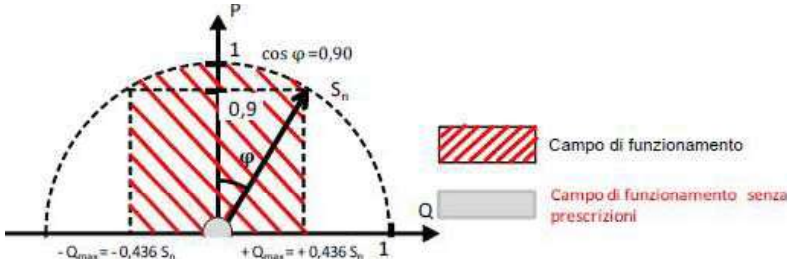
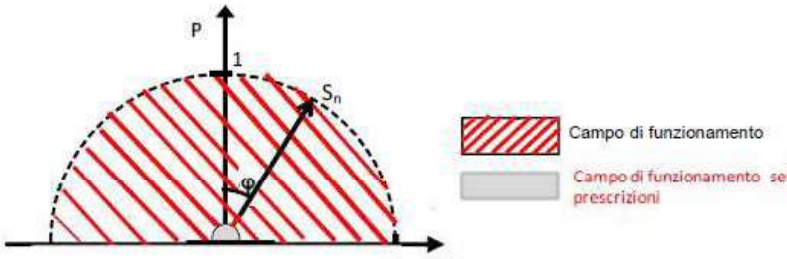
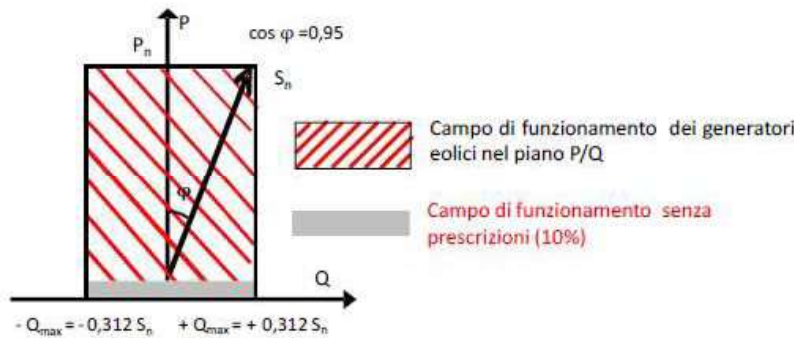
Certification Body


Weichun Li

CC: Ginlong technologies Co., Ltd.

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

N.6.1 Verifica della capability di erogazione della potenza reattiva <i>/reactive power production capability</i>	
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: <i>Maximum power of the destination plant:</i>	<input type="checkbox"/> PV _{plant} < 400 KW (see picture 1A) <input checked="" type="checkbox"/> PV _{plant} ≥ 400 KW (see picture 1B) <input type="checkbox"/> Wind generator (see picture 1C)
Picture 1A	
Picture 1B	
Picture 1C	
<p>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.</p>	
Operator	see coverage
Supervisor	see coverage
Test Date.....	see coverage

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 (Q_{\max}) 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 $\Delta Q \leq \pm 5\%$ 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		Power Factor
	[W]	p.u.	[VA]	p.u.	
0% ±5%	1782.26	2.97%	1032.44	1.72%	0.87
10% ±5%	5996.15	9.99%	1046.20	1.74%	0.99
20% ±5%	11998.20	20.00%	386.86	0.64%	1.00
30% ±5%	17974.50	29.96%	992.00	1.65%	1.00
40% ±5%	23963.90	39.94%	-1105.10	-1.84%	1.00
50% ±5%	29975.00	49.96%	-1398.60	-2.33%	1.00
60% ±5%	36074.40	60.12%	-1472.60	-2.45%	1.00
70% ±5%	42129.50	70.22%	-1681.10	-2.80%	0.87
80% ±5%	47987.30	79.98%	-1968.40	-3.28%	0.99
90% ±5%	53843.00	89.74%	-2312.90	-3.85%	1.00
100% ±5%	59423.20	99.04%	-2520.30	-4.20%	1.00

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

Power-Bin	Active power		Reactive Power		Capability limit for reactive power (picture 1B +/- 5%Sn)	Power Factor
	[W]	p.u.	[VA]	p.u.		
0% ±5%	2695.37	4.49%	60355.74	100.59%	0.59%	0.04
10% ±5%	6890.62	11.48%	60283.64	100.47%	0.47%	0.11
20% ±5%	12873.28	21.46%	60206.47	100.34%	0.34%	0.21
30% ±5%	18847.00	31.41%	60188.35	100.31%	0.31%	0.30
40% ±5%	24887.31	41.48%	60120.77	100.20%	0.20%	0.38
50% ±5%	30855.16	51.43%	60199.36	100.33%	0.33%	0.46
60% ±5%	30789.12	51.32%	60102.25	100.17%	0.17%	0.46
70% ±5%	30829.12	51.38%	60202.05	100.34%	0.34%	0.46
80% ±5%	30884.71	51.47%	60209.44	100.35%	0.35%	0.46
90% ±5%	30868.47	51.45%	60210.42	100.35%	0.35%	0.46
100% ±5%	30820.65	51.37%	60201.08	100.34%	0.34%	0.46

Table 6.1.1c: Maximum capability P-Q (Q=Qmax[ind])

Power-Bin	Active power		Reactive Power		Minimum capability limit (picture 1B +/- 5%Sn)	Power Factor
	[W]	p.u.	[VA]	p.u.		
0% ±5%	842.21	1.40%	-60004.13	-100.01%	-0.01%	0.01
10% ±5%	5014.95	8.36%	-60069.87	-100.12%	-0.12%	0.08
20% ±5%	11073.81	18.46%	-60185.00	-100.31%	-0.31%	0.18
30% ±5%	17005.37	28.34%	-60203.80	-100.34%	-0.34%	0.27
40% ±5%	23101.98	38.50%	-60221.68	-100.37%	-0.37%	0.36
50% ±5%	28261.90	47.10%	-60186.96	-100.31%	-0.31%	0.42
60% ±5%	28203.77	47.01%	-60165.67	-100.28%	-0.28%	0.42
70% ±5%	28151.79	46.92%	-60235.44	-100.39%	-0.39%	0.42
80% ±5%	28132.84	46.89%	-60236.01	-100.39%	-0.39%	0.42
90% ±5%	28151.66	46.92%	-60258.78	-100.43%	-0.43%	0.42
100% ±5%	28137.83	46.90%	-60194.91	-100.32%	-0.32%	0.42