Ginlong Technologies Co., Ltd.
No.57 Jintong Road,
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Dichiarazione di conformità alle prescrizioni della Norma CEI 0-16

Declaration of conformity to the requirements of the standard CEI 0-16

DISPOSITIVO DI INTERFACCIA *INTERFACE DEVICE*	**PROTEZIONE DI INTERFACCIA** *INTERFACE PROTECTION*	**DISPOSITIVO DI CONVERSIONE STATICA** *STATIC CONVERTION 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/triphase)*	POTENZA NOMINALE DI CARICA/SCARICA: *CHARGE/DISCHARGE NOMINAL POWER Psn/Pcn [W]*	POTENZA MASSIMA DI CARICA/SCARICA: *CHARGE/DISCHARGE MAX POWER Psmax/Pcmax[W]*	CORRENTE MASSIMA DI CARICA/SCARICA *CHARGE/DISCHARGE MAX CURRENT [A]*
Ginlong Technologies Co., Ltd. No. 57 Jintong Road, Binhai Industrial Park – Xiangshan Ningbo – Zhejiang Province, 315712 – P.R. China	**S6-EH3P5K2-H**	A2 **o superior** *or upper*	**Trifase** *Three-phase*	5000	5000	25
	S6-EH3P6K2-H			6000	6000	25
	S6-EH3P8K2-H			8000	8000	50
	S6-EH3P10K2-H			10000	10000	50
Ginlong Technologies Co., Ltd. No. 57 Jintong Road, Binhai Industrial Park – Xiangshan Ningbo – Zhejiang Province, 315712 – P.R. China	**S6-EH3P5K2-H-OD**	A2 **o superior** *or upper*	**Trifase** *Three-phase*	5000	5000	25
	S6-EH3P6K2-H-OD			6000	6000	25
	S6-EH3P8K2-H-OD			8000	8000	50
	S6-EH3P10K2-H-OD			10000	10000	50

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Ginlong Technologies Co., Ltd. *No. 57 Jintong Road, Binhai Industrial Park – Xiangshan Ningbo – Zhejiang Province, 315712 – P.R. China*	**S6-EH3P5K-H-EU**	A2 **o superior** *or upper*	**Trifase** *Three-phase*	5000	5000	25
	S6-EH3P6K-H-EU			6000	6000	25
	S6-EH3P8K-H-EU			8000	8000	50
	S6-EH3P10K-H-EU			10000	10000	50
Ginlong Technologies Co., Ltd. *No. 57 Jintong Road, Binhai Industrial Park – Xiangshan Ningbo – Zhejiang Province, 315712 – P.R. China*	**S6-EH3P5K-H-EU-OD**	A2 **o superior** *or upper* A2 **o superior** *or upper*	**Trifase** *Three-phase*	5000	5000	25
	S6-EH3P6K-H-EU-OD			6000	6000	25
	S6-EH3P8K-H-EU-OD			8000	8000	50
	S6-EH3P10K-H-EU-OD			10000	10000	50
	S6-EH3P10K-H-EU-PRO			10000	10000	50

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

Gli inverter suddetti sono certificati in combinazione con una delle seguenti opzioni di batteria al Litio:
*The inverters here above listed are certified according with one of the following options of Lithium Battery (See **Appendix**):*

Esaminati i Fascicoli Prove n°CN220KGG 010, emessi dal laboratorio TÜV Rheinland (Shanghai) Co.; Ltd.

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In conformità a quanto previsto dalla CEI 0-16; V3 del 01-2024, all'allegato Nbis 1.2 che consente l'estensione della certificazione suddetta a sistemi di accumulo appartenenti alla stessa famiglia.

In particolare:

- **essendo il sottosistema di accumulo elettrochimico;**
- **qualificato secondo la norma CEI EN 62619;**
- **rimanendo invariati i perimetri di sicurezza e operativi (es. P_{SMAX} , P_{CMAX}, V, I);**
- **mantenendo la stessa configurazione (Tipo a – per quanto definito in fig. 5 di CEI EN 62619) che non modifica in alcun modo il contenuto del "convertitore" (inverter) per il quale il sottosistema di accumulo è costituito da uno o più pacchi batterie collegati in parallelo, ciascuno dei quali ha un proprio BMS e moduli batterie collegati in serie.**

Ai sensi degli articoli 76 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, 315712 – P.R. China

dichiara

che il sistema di accumulo, combinazione degli inverter di propria costruzione con le batterie sopra menzionate, è conforme alle prescrizioni della 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. CN220KGG 010 issued by test TÜV Rheinland (Shanghai) Co.; Ltd.

In compliance with the provisions of CEI 0-16; V3 of 01-2024, in Annex Nbis 1.2 which allows the extension of the aforementioned certification to storage systems belonging to the same family.

In particular:

- *being the electrochemical storage subsystem;*
- *qualified according to the CEI EN 62619 standard;*
- *the safety and operational perimeters remaining unchanged (e.g. P_{SMAX} , P_{CMAX}, V, I);*
- *maintaining the same configuration (Type a - as defined in fig. 5 of CEI EN 62619) which does not modify in any way the content of the "converter" (inverter) for which the storage subsystem is made up of one or more packs batteries connected in parallel, each of which has its own BMS and battery modules connected in series.*

According with the articles 76 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, 315712 – P.R. China, herewith

Declare

that the storage system, combination of hybrid inverters manufactured by us with the batteries here above listed, is compliant with the requirements of CEI-0-16:2022-03 e CEI 0-16:V1:2022-11, CEI0-16;V2:2023-05,CEI 0-16;V3:2024-01.

FIRMA LEGALE RAPPRESENTANTE
SIGNATURE LEGAL REPRESENTATIVE

DATA 18/12/2024
DATE 18/12/2024

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Appendix:

COSTRUTTORE : *MANUFACTURER*	**MODELLO SOTTOSISTEMA DI ACCUMULO** *SUBSYSTEM STORAGE MODEL*	**Numero di moduli batteria per singola pila collegati in serie** *Number(s) of battery module for single pile series connected*	**Capacità del sistema di accumulo (CUS) [Wh]** *Storage system capacity (CUS) [Wh]*
Oliter	OHS-100/OH-5K (Modulo/*Modul*)	**n da 3 a 8** *n from 3 to 8*	**N(1) x n. di moduli batteria x 5120** *N(1) x n. of battery modules x 5120*
Pylontech	Force H1-48-144V/Force H1-48-192V/Force H1-48-240V/Force H1-48-288V/Force H1-48-336V	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 3552** *N(1) x n. of battery modules x 3552*
	Force H2-96/192/Force H2-96/288/Force H2-96/384	**n da 2 a 4** *n from 2 to 4*	**N(1) x n. di moduli batteria x 3552** *N(1) x n. of battery modules x 3552*
WECO	5K3-XP-EU (Modulo/*Modul*)	**n da 3 a 10** *n from 3 to 10*	**N(1) x n. di moduli batteria x 5370** *N(1) x n. of battery modules x 5370*
	HV-BOX		
	5K3-EVO	**n da 3 a 10** *n from 3 to 10*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
BYD	HVM 8.3/HVM 11.0/HVM 16.6/HVM 19.3/HVM 22.1	**n da 3 a 8** *n from 3 to 8*	**N(1) x n. di moduli batteria x 2760** *N(1) x n. of battery modules x 2760*
	HVS 5.1/HVS 7.7/HVS 10.2/HVS 12.8	**n da 2 a 5** *n from 2 to 5*	**N(1) x n. di moduli batteria x 2560** *N(1) x n. of battery modules x 2560*
Soluna	Soluna10KPackHV(L-E)	**n da 1 a 1** *n from 1 to 1*	**N(1) x n. di moduli batteria x 10752** *N(1) x n. of battery modules x 10752*
	Soluna15KPackHV(L-E)	**n da 1 a 1** *n from 1 to 1*	**N(1) x n. di moduli batteria x 10752** *N(1) x n. of battery modules x 10752*
Dyness	TowerT7/TowerT10/TowerT14/TowerT17	**n da 2 a 5** *n from 2 to 5*	**N(1) x n. di moduli batteria x 3552** *N(1) x n. of battery modules x 3552*
	Tower Pro T7/Tower Pro T11/Tower Pro T15/Tower Pro T19	**n da 2 a 5** *n from 2 to 5*	**N(1) x n. di moduli batteria x 3840** *N(1) x n. of battery modules x 3840*
Sunwoda	SunESS-5/10/15/20H	**n da 2 a 12** *n from 2 to 12*	**N(1) x n. di moduli batteria x 5000** *N(1) x n. of battery modules x 5000*
	SunESS-5/10/15/20H2	**n da 2 a 12** *n from 2 to 12*	**N(1) x n. di moduli batteria x 5000** *N(1) x n. of battery modules x 5000*
Steltec	STE-BSH-5120	**n da 2 a 5** *n from 2 to 5*	**N(1) x n. di moduli batteria x 5120** *N(1) x n. of battery modules x 5120*
	STE-BC5120		
Jiangsu SolarEast Energy Storage Technology Co.. Ltd	PowerCool-LFP-HV-15/PowerCool-LFP-HV-20/PowerCool-LFP-HV-25/PowerCool-LFP-HV-30/PowerCool-LFP-HV-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
	PowerCool-LFP-HVA1-15/PowerCool-LFP-HVA1-20/PowerCool-LFP-HVA1-25/PowerCool-LFP-HVA1-30/PowerCool-LFP-HVA1-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*

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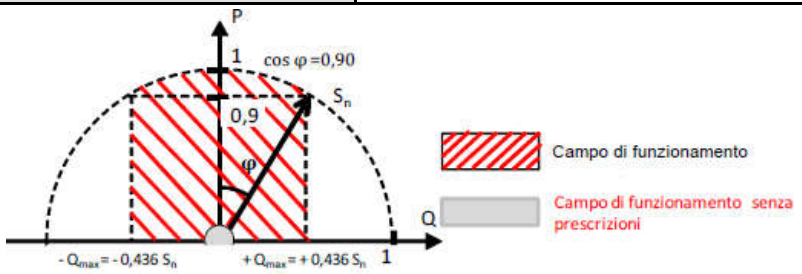
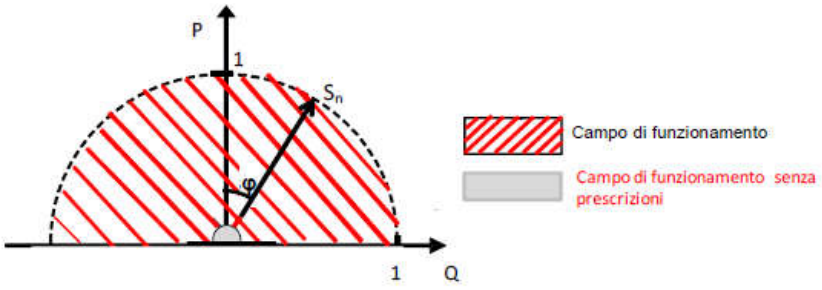
	PowerCool-LFP-HVA2-15/PowerCool-LFP-HVA2-20/PowerCool-LFP-HVA2-25/PowerCool-LFP-HVA2-30/PowerCool-LFP-HVA2-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
	PowerCool-LFP-HVB1-15/PowerCool-LFP-HVB1-20/PowerCool-LFP-HVB1-25/PowerCool-LFP-HVB1-30/PowerCool-LFP-HVB1-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
	PowerCool-LFP-HVB2-15/PowerCool-LFP-HVB2-20/PowerCool-LFP-HVB2-25/PowerCool-LFP-HVB2-30/PowerCool-LFP-HVB2-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
Pytes	HV48100 BMU (Modulo/Modul)	**n da 5 a 10** n from 5 to 10	**N(1) x n. di moduli batteria x 5120** *N(1) x n. of battery modules x 5120*
	HV48100 BMU-5/HV48100 BMU-6/ HV48100 BMU-7/HV48100 BMU-8/ HV48100 BMU-9/HV48100 BMU-10		
DAHAI	DHV-DS-100-10/DHV-DS-100-15/ DHV-DS-100-20/DHV-DS-100-25/ DHV-DS-100-30/DHV-DS-100-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
	DHVA1-DS-100-10/DHVA1-DS-100-15/ DHVA1-DS-100-20/DHVA1-DS-100-25/ DHVA1-DS-100-30/DHVA1-DS-100-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
	DHVA2-DS-100-10/DHVA2-DS-100-15/ DHVA2-DS-100-20/ DHVA2-DS-100-25/ DHVA2-DS-100-30/DHVA2-DS-100-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
	DHVB1-DS-100-10/DHVB1-DS-100-15/ DHVB1-DS-100-20/DHVB1-DS-100-25/ DHVB1-DS-100-30/DHVB1-DS-100-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*
	DHVB2-DS-100-10/ DHVB2-DS-100-15/ DHVB2-DS-100-20/DHVB2-DS-100-25/ DHVB2-DS-100-30/ DHVB2-DS-100-35	**n da 3 a 7** *n from 3 to 7*	**N(1) x n. di moduli batteria x 5220** *N(1) x n. of battery modules x 5220*

(1) **E' possibile installare fino a N pile in parallelo** - *It is allowed to install up to N piles (parallel connected)*

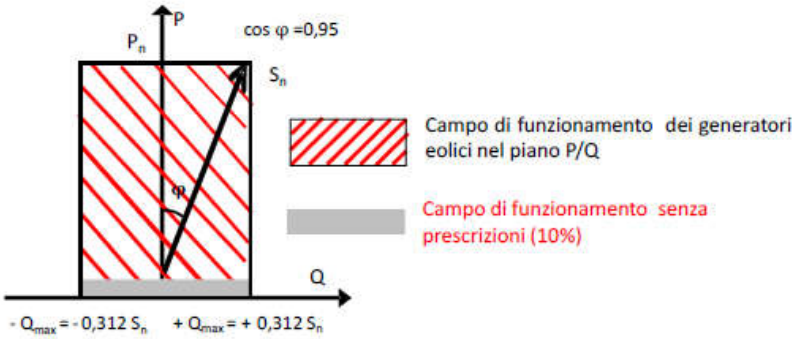
N.6.1 Verifica della capability di erogazione della potenza reattiva */reactive power production capability*	
Ambient temperature (°C) .....:	25 °C ± 5 °C
Humidity (RH %) .....:	65%
Instrumentation list.....:	See table "Measurement equipment and instrumentation"
Uncertainty .....:	See table "Metodi di 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%	499.1	4.5	63.5	0.6	549.0	5.0	0.999
10% ±5%	998.2	9.1	73.7	0.7	1098.0	10.0	0.999
20% ±5%	1943.5	17.7	84.7	0.8	2137.9	19.4	0.999
30% ±5%	2989.1	27.2	65.7	0.6	3288.0	29.9	0.999
40% ±5%	3975.5	36.1	83.7	0.8	4373.1	39.8	0.999
50% ±5%	5002.2	45.5	74.7	0.7	5502.4	50.0	0.999
60% ±5%	5989.6	54.5	61.7	0.6	6588.6	59.9	0.999
70% ±5%	7002.1	63.7	70.7	0.6	7702.3	70.0	0.999
80% ±5%	7991.1	72.6	80.7	0.7	8790.2	79.9	0.999
90% ±5%	8991.2	81.7	71.7	0.7	9890.3	89.9	0.999
100% ±5%	9962.9	90.6	59.7	0.5	10959.2	99.6	0.999

Table 6.1.1b: Maximum capability P-Q (Q=Qmax|cap)

Power-Bin	Active power		Reactive Power		**Capability limit for reactive power (picture 1B +/- 5%Sn)**	DC Power		Power Factor
	[W]	p.u.	[VA]	p.u.		[W]	p.u.	
0% ±5%	499.1	4.5	4821.8	43.8	4843	549	5.0	0.103
10% ±5%	989.2	9.0	4825.1	43.9	4843	1088.1	9.9	0.201
20% ±5%	1943.5	17.7	4827.8	43.9	4843	2137.9	19.4	0.373
30% ±5%	2989.1	27.2	4823.7	43.9	4843	3288	29.9	0.527
40% ±5%	3975.5	36.1	4823.3	43.8	4843	4373.1	39.8	0.636
50% ±5%	4992.1	45.4	4821.6	43.8	4843	5491.3	49.9	0.719
60% ±5%	5959	54.2	4818.4	43.8	4843	6554.9	59.6	0.778
70% ±5%	7002.1	63.7	4820	43.8	4843	7702.3	70.0	0.824
80% ±5%	7949.7	72.3	4819.9	43.8	4843	8744.7	79.5	0.855
90% ±5%	8992.1	81.7	4817.1	43.8	4843	9891.3	89.9	0.881
100% ±5%	9839.9	89.5	4816.2	43.8	4843	10823.9	98.4	0.898

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

Power-Bin	Active power		Reactive Power		**Minimum capability limit (picture 1B +/- 5%Sn)**	DC Power		Power Factor
	[W]	p.u.	[VA]	p.u.		[W]	p.u.	
0% ±5%	498.2	4.5	-4910.1	-44.6	4843	548.0	5.0	0.101
10% ±5%	1002.3	9.1	-4911.2	-44.6	4843	1102.5	10.0	0.2
20% ±5%	1974.7	18.0	-4913	-44.7	4843	2172.2	19.7	0.373
30% ±5%	3005.2	27.3	-4912.3	-44.7	4843	3305.7	30.1	0.522
40% ±5%	3978.1	36.2	-4916.6	-44.7	4843	4375.9	39.8	0.629
50% ±5%	5007.1	45.5	-4917.2	-44.7	4843	5507.8	50.1	0.713
60% ±5%	5994.6	54.5	-4926.4	-44.8	4843	6594.1	59.9	0.773
70% ±5%	6998.1	63.6	-4920	-44.7	4843	7697.9	70.0	0.818
80% ±5%	7984.1	72.6	-4929.9	-44.8	4843	8782.5	79.8	0.851
90% ±5%	9010.1	81.9	-4909.2	-44.6	4843	9911.1	90.1	0.878
100% ±5%	9800.2	89.1	-4932.9	-44.8	4843	10780.2	98.0	0.893

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

DQ-B2313-Dichiarazione_di_conformità_CEI0-16 SOLIS S6-EH3P(5-10)K-H

Grandall Law Firm(Beijing)

December 24, 2024