



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 0-21
Declaration of conformity to the requirements of the standard CEI 0-21

TIPOLOGIA DEL SISTEMA DI ACCUMULO CUI SI RIFERISCE LA DICHIARAZIONE:
TYPE OF STORAGE SYSTEM 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
Si/Yes	Si/Yes	Si/Yes	No

COSTRUTTORE: MANUFACTURER	MODELLO DI INVERTER: INVERTER MODEL	VERSIONE FIRMWARE: FIRMWARE VERSION:	NUMERO DI FASI (monofase/trifase) NUMBER OF PHASE (single/triphas)	POTENZA MASSIMA DI CARICA/SCARICA: CHARGE/DISCHARGE MAX POWER [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	RHI-3P5K-HVES-5G	31 o superior or upper	Trifase Three-phase	5000	25
	RHI-3P6K-HVES-5G			6000	25
	RHI-3P8K-HVES-5G			8000	25
	RHI-3P10K-HVES-5G			10000	25

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:

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]
Pylontech	PowerCube X1/X2/H1/H2	SC0500 (BMS)	H48050 (Modulo/ Modul)	n da 4 a 11 n from 4 to 11	N ⁽¹⁾ x n. di moduli batteria x 2400 N ⁽¹⁾ x n. of battery modules x 2400
		SC1000 (BMS)			
		SC0500 (BMS)	H48074 (Modulo/ Modul)		N ⁽¹⁾ x n. di moduli batteria x 3552 N ⁽¹⁾ x n. of battery modules x 3552
		SC1000 (BMS)			





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Pylontech	Force H1	FC0500-40S (BMS)	n da 4 a 7 n from 4 to 7	N ⁽¹⁾ x n. di moduli batteria x 3552 N ⁽¹⁾ x n. of battery modules x 3552
		FH48074 (Modulo/Modul)		
	Force H2	FC0500M-40S (BMS)	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
		FH9637M (Modulo/Modul)		
	Force H3	FC1000 (BMS)	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
		FH10050 (Modulo/Modul)		
Dyness	Tower S3	Tower S3 - BDU (BMS)	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
		HV9637S (Modulo/Modul)		
	Tower Pro	Tower Pro - BDU (BMS)	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
		HV9640 (Modulo/Modul)		
	Stack 100	SBDU100 (BMS)	n da 4 a 10 n from 4 to 10	N ⁽¹⁾ x n. di moduli batteria x 5120 N ⁽¹⁾ x n. of battery modules x 5120
		S51100 (Modulo/Modul)		
	Stack 100 Pro	SBDU100 Pro (BMS)	n da 4 a 10 n from 4 to 10	N ⁽¹⁾ x n. di moduli batteria x 5120 N ⁽¹⁾ x n. of battery modules x 5120
		S51100 Pro (Modulo/Modul)		

(1) E' possibile installare fino a N = 6 pile in parallelo - It is allowed to install up to N = 6 piles (parallel connected)

Il generatore – The generator:

☐ è idoneo per installazione in impianti con potenza superiore a 11,08 kW - It is suitable for installation in systems with a power greater than 11.08 kW

☐ È in grado di limitare la I_{dc} allo 0,5% della corrente nominale - It is able to limit the I_{dc} to 0.5% of the rated current:

☐ utilizza una funzione di protezione sensibile alla corrente continua - Uses a DC sensitive protection feature

☐ utilizza un trasformatore operante alla frequenza di rete - Uses a transformer operating at the mains frequency

Esaminati i Fascicoli Prove n° 50387786 003, emessi dal laboratorio TÜV Rheinland (Shanghai) Co.; Ltd.

In conformità a quanto previsto dalla CEI 0-21; V2 del 01-2024, all'allegato Bbis 2.2 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.





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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-0-21:2022-03 e CEI 0-21:V1:2022-11, CEI 0-21;V2:2024-01.

Taken into account test report No. 50387786 003 issued by test TÜV Rheinland (Shanghai) Co.; Ltd.

In compliance with the provisions of CEI 0-21; V2 of 01-2024, in Annex Bbis 2.2 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-0-21:2022-03 e CEI 0-21:V1:2022-11, CEI 0-21;V2:2024-01.

DATA 25/06/2026
DATE 25/06/2026

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

*Dichiarazione di conformità CEI0-21 SOLIS
RHI-3P(5-10)K-HVES-5G*

Grandall Law Firm (Beijing)

July 24th 2024



CERTIFICATE of Conformity



Registration No.: A3 50630545 0001

Report No.: 50387786 003

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

Product: PV-Inverter
(Hybrid Grid-Interactive Inverter With Storage Battery System)

Identification: Type Designation: Hybrid Inverter: RHI-3PxK-HVES-5G
(x=5, 6, 8, 10)
Serial Number : 110F40186080001
Firmware Version: Hybrid Inverter:A2; BMS:V4.6; Battery:V3.0
Remark(s) : Model above maybe installed with:
Pylon battery:H48074, H48050
Pylon BMS :SC1000, SC5000
Refer to report 50387786 003 for details.

Tested acc. to: CEI 0-21:2022-03
CEI 0-21; V1:2022-11
CEI 0-21;V2: 2024-01

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 27.05.2024

A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

GGETTO: Dichiarazione di conformità alla normativa CEI 0-21:2022-03 e CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 “Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica”
SUBJECT: Declaration of Conformity to CEI 0-21:2022-03 and CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 “Reference technical rules for the connection of active and passive users to the LV electrical Utilities”

Certificate No.: A3 50630545 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
☒	☒	☒	☐

Costruttore
Manufacturer

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

Modello/Tipo
Model/Type

RHI-3P10K-HVES-5G with H48050

Potenza Attiva Nominale (P_{NINV}) Nominal Power [W]	10000							
Max. Potenza Apparente (S_{MAX}) Maximum Apparent Power [VA]	10000							
Numero di unità batteria Number of battery unit	4	5	6	7	8	9	10	11
Potenza di Scarica Massima (P_{Smax})* Maximum Discharge Power [W]	4500	5700	6800	8000	9200	10000	10000	10000
Potenza di Carica massima (P_{Cmax})* Maximum charging power [W]	5100	6400	7600	8800	10000	10000	10000	10000
Capacità della batteria Capacity of battery [kWh]	9.76	12.20	14.64	17.08	19.52	21.96	24.40	26.84

Modello/Tipo
Model/Type

RHI-3P10K-HVES-5G with H48074

Potenza Attiva Nominale (P_{NINV}) Nominal Power [W]	10							
Max. Potenza Apparente (S_{MAX}) Maximum Apparent Power [VA]	10000							
Numero di unità batteria Number of battery unit	4	5	6	7	8	9	10	11
Potenza di Scarica Massima (P_{Smax})* Maximum Discharge Power [W]	4500	5700	6800	8000	9200	10000	10000	10000
Potenza di Carica massima (P_{Cmax})* Maximum charging power [W]	5100	6400	7600	8800	10000	10000	10000	10000
Capacità della batteria Capacity of battery [kWh]	14.20	17.75	21.30	24.85	28.40	31.95	35.50	39.05

OGGETTO: Dichiarazione di conformità alla normativa CEI 0-21:2022-03 e CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 "Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica"

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Pagina 2/5

Modello/Tipo Model/Type	RHI-3P8K-HVES-5G with H48050							
Potenza Attiva Nominata (P_{NINV}) Nominal Power [W]	8000							
Max. Potenza Apparente (S_{MAX}) Maximum Apparent Power [VA]	8000							
Numero di unità batteria Number of battery unit	4	5	6	7	8	9	10	11
Potenza di Scarica Massima (P_{Smax})* Maximum Discharge Power [W]	4500	5700	6800	8000	8000	8000	8000	8000
Potenza di Carica massima (P_{Cmax})* Maximum charging power [W]	5100	6400	7600	8000	8000	8000	8000	8000
Capacità della batteria Capacity of battery [kWh]	9.76	12.20	14.64	17.08	19.52	21.96	24.40	26.84

Modello/Tipo Model/Type	RHI-3P8K-HVES-5G with H48074							
Potenza Attiva Nominata (P_{NINV}) Nominal Power [W]	8000							
Max. Potenza Apparente (S_{MAX}) Maximum Apparent Power [VA]	8000							
Numero di unità batteria Number of battery unit	4	5	6	7	8	9	10	11
Potenza di Scarica Massima (P_{Smax})* Maximum Discharge Power [W]	4500	5700	6800	8000	8000	8000	8000	8000
Potenza di Carica massima (P_{Cmax})* Maximum charging power [W]	5100	6400	7600	8000	8000	8000	8000	8000
Capacità della batteria Capacity of battery [kWh]	14.20	17.75	21.30	24.85	28.40	31.95	35.50	39.05



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Tillystraße 2 · 90431 Nürnberg · Germany

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OGGETTO: Dichiarazione di conformità alla normativa CEI 0-21:2022-03 e CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 "Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica"

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Pagina 3/5

Modello/Tipo Model/Type	RHI-3P6K-HVES-5G with H48074							
Potenza Attiva Nominata (P_{NINV}) Nominal Power [W]	6000							
Max. Potenza Apparente (S_{MAX}) Maximum Apparent Power [VA]	6000							
Numero di unità batteria Number of battery unit	4	5	6	7	8	9	10	11
Potenza di Scarica Massima (P_{Smax})* Maximum Discharge Power [W]	4500	5700	6000	6000	6000	6000	6000	6000
Potenza di Carica massima (P_{Cmax})* Maximum charging power [W]	5100	6000	6000	6000	6000	6000	6000	6000
Capacità della batteria Capacity of battery [kWh]	14.20	17.75	21.30	24.85	28.40	31.95	35.50	39.05

Modello/Tipo Model/Type	RHI-3P6K-HVES-5G with H48050							
Potenza Attiva Nominata (P_{NINV}) Nominal Power [W]	6000							
Max. Potenza Apparente (S_{MAX}) Maximum Apparent Power [VA]	6000							
Numero di unità batteria Number of battery unit	4	5	6	7	8	9	10	11
Potenza di Scarica Massima (P_{Smax})* Maximum Discharge Power [W]	4500	5700	6000	6000	6000	6000	6000	6000
Potenza di Carica massima (P_{Cmax})* Maximum charging power [W]	5100	6000	6000	6000	6000	6000	6000	6000
Capacità della batteria Capacity of battery [kWh]	9.76	12.20	14.64	17.08	19.52	21.96	24.40	26.84



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D-ZE-14169-01-02

OGGETTO: Dichiarazione di conformità alla normativa CEI 0-21:2022-03 e CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 “Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica”

SUBJECT: Declaration of Conformity to CEI 0-21:2022-03 and CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 “Reference technical rules for the connection of active and passive users to the LV electrical Utilities”

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Modello/Tipo
Model/Type

RHI-3P5K-HVES-5G with H48050

Potenza Attiva Nominata (P_{NINV})
Nominal Power [W]

5000

Max. Potenza Apparente (S_{MAX})
Maximum Apparent Power [VA]

5000

Numero di unità batteria
Number of battery unit

4 5 6 7 8 9 10 11

Potenza di Scarica Massima (P_{Smax})*
Maximum Discharge Power [W]

4500 5000 5000 5000 5000 5000 5000 5000

Potenza di Carica massima (P_{Cmax})*
Maximum charging power [W]

5000 5000 5000 5000 5000 5000 5000 5000

Capacità della batteria
Capacity of battery [kWh]

9.76 12.2 14.64 17.08 19.52 21.96 24.40 26.84

Modello/Tipo
Model/Type

RHI-3P5K-HVES-5G with H48074

Potenza Attiva Nominata (P_{NINV})
Nominal Power [W]

5000

Max. Potenza Apparente (S_{MAX})
Maximum Apparent Power [VA]

5000

Numero di unità batteria
Number of battery unit

4 5 6 7 8 9 10 11

Potenza di Scarica Massima (P_{Smax})*
Maximum Discharge Power [W]

4500 5000 5000 5000 5000 5000 5000 5000

Potenza di Carica massima (P_{Cmax})*
Maximum charging power [W]

5000 5000 5000 5000 5000 5000 5000 5000

Capacità della batteria
Capacity of battery [kWh]

14.20 17.75 21.30 24.85 28.40 31.95 35.50 39.05



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OGGETTO: Dichiarazione di conformità alla normativa CEI 0-21:2022-03 e CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 "Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica"

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Esaminati I Fascicoli Prove N.: 50387786 003 emesso da TÜV Rheinland (Shanghai) S.r.l.
Having assessed the Test Files N. 50387786 003 issued by TÜV Rheinland (Shanghai) Co., Ltd.

Si dichiara che i prodotti indicati soddisfano i requisiti della CEI 0-21:2022-03 e CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 "Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica"

We declare that the products indicated meet the requirements laid down by CEI 0-21:2022-03 and CEI 0-21;V1:2022-11, CEI 0-21; V2: 2024-01 "Reference technical rules for the connection of active and passive users to the LV electrical Utilities"

Validità della Dichiarazione
Validity of the Declaration

Questa Dichiarazione è valida per i prodotti indicate, così come descritti nei Fascicoli citati. Nuovi requisiti o emendamenti a requisiti esistenti, così 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.

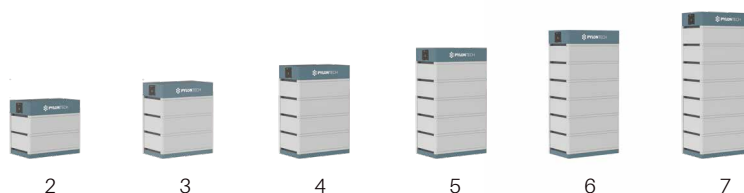
Date: 27.05.2024

Signature :

A. Chen



SPECIFICATION (Force H1/ 96~336 V)



Basic Parameters						
Battery Module	FH48074					
Battery Module Voltage(Vdc)	48					
Battery Module Capacity(Ah)	74					
Battery Module Qty. (Optional)	2	3	4	5	6	7
Battery System Voltage (V)	96	144	192	240	288	336
Battery System Capacity(Ah)	74					
Battery System Capacity(kWh)	7.1	10.65	14.21	17.76	21.31	24.86
Dimension (W*D*H mm)	600*380*530	600*380*700	600*380*870	600*380*1040	600*380*1210	600*380*1380
Weight(kg)	86	122	158	194	230	266
Depth of Discharge	95%					
Charge/ Discharge Current(A)	(Recommend) (Max.)					
	37 40					
Multi-group	Max. 6 systems in parallel					
Communication	CANBUS/Modbus RTU					
IP rating	IP55					
Working Temperature/ °C	0~50					
Shelf Temperature/ °C	-20~60					
Humidity	5%~95%(w/o condensing)					
Altitude	<2000					
Design Life	15+ Years (25 °C/°F)					
Cycle Life	>8,000, 25 °C					
Certification	UL 1973/VDE2510-50/IEC62619/IEC62477/ IEC62040-1/CE/UN38.3					

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ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ CERTIFICADO ♦ CERTIFICAT



Product Service

CERTIFICATE

No. Z2 090762 0022 Rev. 00

Holder of Certificate: **Pylon Technologies Co., Ltd.**
No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park
201203 Pudong, Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Batteries**
(LFP Lithium Ion Energy Storage Battery System)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 64280190115301

Valid until: 2024-08-06

Date, 2019-08-07

(Harry Zhang)



Product Service

CERTIFICATE

No. Z2 090762 0022 Rev. 00

Model(s):

Force-H1-48/96V, Force-H1-48/144V,
Force-H1-48/192V, Force-H1-48/240V,
Force-H1-48/288V, Force-H1-48/336V,
Force-H1-48/384V

Brand Name:

PYLONTECH



Parameters:

Nominal voltage: Force-H1-48/96V: 96Vd.c.;
Force-H1-48/144V: 144Vd.c.;
Force-H1-48/192V: 192Vd.c.;
Force-H1-48/240V: 240Vd.c.;
Force-H1-48/288V: 288Vd.c.;
Force-H1-48/336V: 336Vd.c.;
Force-H1-48/384V: 384Vd.c.
Rated capacity: 74Ah

**Tested
according to:**

IEC 62619:2017

**Production
Facility(ies):**

091237

SPECIFICATION (Force H2/192~384 V)



Basic Parameters				
Battery Module		FH9637M		
Battery Module Voltage(Vdc)		96		
Battery Module Capacity(Ah)		37		
Battery Module Qty. (Optional)	2	3	4	5
Battery System Voltage (V)	192	288	384	480
Battery System Capacity(Ah)		37		
Battery System Capacity(kWh)	7.1	10.65	14.21	17.75
Dimension (W*D*H mm)	450*296*822	450*296*1118	450*296*1414	450*296*1710
Weight(kg)	82	117.5	152	188.5
Depth of Discharge		95%		
Charge/ Discharge	(Recommend)	18.5		
Current(A)	(Max.)	40		
Multi-group		Max. 6 systems in parallel		
Communication		CANBUS/Modbus RTU		
IP rating		IP55		
Working Temperature/ °C		0~50		
Shelf Temperature/ °C		-20~60		
Humidity		5%~95%(w/o condensing)		
Altitude		<2000		
Design Life		15+ Years (25 C /77 F)		
Cycle Life		>8,000, 25 C		
Certification		VDE-AR-E 2510-50/ IEC62619/IEC63056/IEC62040-1/CEC/CE		



Product Service

CERTIFICATE

No. Z2 090762 0027 Rev. 00

Holder of Certificate: **Pylon Technologies Co., Ltd.**

No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park
201203 Pudong, Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

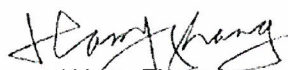
Batteries
(LFP Lithium Ion Energy Storage Battery System)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 64280193048401

Valid until: 2025-03-03

Date, 2020-03-04


(Harry Zhang)



Product Service

CERTIFICATE

No. Z2 090762 0027 Rev. 00

Model(s): Force-H2-96/96V, Force-H2-96/192V,
Force-H2-96/288V, Force-H2-96/384V,
Force-H2-96/480V

Brand Name: PYLONTECH



Parameters:

Nominal voltage: Force-H2-96/96V: 96Vd.c.,
Force-H2-96/192V: 192Vd.c.,
Force-H2-96/288V: 288Vd.c.,
Force-H2-96/384V: 384Vd.c.,
Force-H2-96/480V: 480Vd.c.
Rated capacity: 37Ah

**Tested
according to:**
**Production
Facility(ies):**

IEC 62619:2017

091237

SPECIFICATION (Force H3/204.8~716.8 V)



Basic Parameters						
Battery Module	FH10050					
Battery Module Voltage(Vdc)	102.4					
Battery Module Capacity(Ah)	50					
Battery Module Qty. (Optional)	2	3	4	5	6	7
Battery System Voltage (V)	204.8	307.2	409.6	512	614.4	716.8
Battery System Capacity(Ah)	50					
Battery System Capacity(kWh)	10.2	15.4	20.5	25.6	30.7	35.8
Dimension (W*D*H mm)	540*350*530	540*350*700	540*350*870	540*350*1040	540*350*1210	540*350*1380
Weight(kg)	92	131	170	209	248	287
Depth of Discharge	95%					
Charge/ Discharge	(Recommend) 50					
Current(A)	(Max.) 52					
Multi-group	Max. 6 systems in parallel					
Communication	CANBUS/Modbus RTU					
IP rating	IP55					
Working Temperature/ °C	-10~50					
Shelf Temperature/ °C	-20~60					
Humidity	5%~95%(w/o condensing)					
Altitude	<4000					
Design Life	15+ Years (25 °C /77 °F)					
Cycle Life	>8,000, 25 °C					
Certification	UL9540A/UL 1973/IEC62619/IEC63056/IEC62040-1/VDE-AR-E 2510-50/IEC62477-1/UN38.3					



Product Service

CERTIFICATE

No. B 090762 0075 Rev. 00

Holder of Certificate: **Pylon Technologies Co., Ltd.**

No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park
201203 Pudong, Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

Batteries
(LFP Lithium Ion Energy Storage Battery
System)

The product was tested on a voluntary basis and complies with the essential requirements.
The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64280236042201

Valid until: 2028-10-26

Date, 2023-10-27

(Harry Zhang)

CERTIFICATE

No. B 090762 0075 Rev. 00

Model(s): Force-H3-102.4/102.4, Force-H3-102.4/204.8,
Force-H3-102.4/307.2, Force-H3-102.4/409.6,
Force-H3-102.4/512, Force-H3-102.4/614.4,
Force-H3-102.4/716.8, Force-H3-102.4/819.2

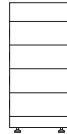
Brand Name: PYLONTECH



Parameters:

Nominal voltage: Force-H3-102.4/102.4: 102.4Vd.c.;
Force-H3-102.4/204.8: 204.8Vd.c.;
Force-H3-102.4/307.2: 307.2Vd.c.;
Force-H3-102.4/409.6: 409.6Vd.c.;
Force-H3-102.4/512: 512.0Vd.c.;
Force-H3-102.4/614.4: 614.4Vd.c.;
Force-H3-102.4/716.8: 716.8Vd.c.;
Force-H3-102.4/819.2: 819.2Vd.c.
Rated capacity: 50Ah

Tested according to: IEC 62619:2022

Modello	Tower TS7	Tower TS10	Tower TS14	Tower TS17	Tower TS21
Schema del prodotto					
Tipo di modulo batteria	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄
Quantità di moduli batteria	2	3	4	5	6
Capacità nominale	7,10 kWh	10,66 kWh	14,21 kWh	17,76 kWh	21,31 kWh
Capacità utilizzabile	6,745 kWh	10,127 kWh	13,499 kWh	16,872 kWh	20,245 kWh
Tensione operativa	168~216 V	252~324 V	336 ~ 432 V	420~540 V	504 ~ 648 V
Tensione nominale	192 V	288 V	384 V	480 V	576 V
Capacità nominale	37 Ah	37 Ah	37 Ah	37 Ah	37 Ah
Potenza massima di carica/scarica continua*	4,26 kW	6,39 kW	8,52 kW	10,65 kW	12,78 kW
Profondità di scarica (DOD) consigliata	95%	95%	95%	95%	95%
Dimensioni [L/P/A] (mm)	504/380/720	504/380/920	504/380/1120	504/380/1320	504/380/1520
Peso netto [kg]	103 kg	143 kg	183 kg	223 kg	263 kg
Intervallo di temperatura di ricarica	0~50 °C				
Intervallo di temperatura di scarica	-10~50 °C				
Interfacce di comunicazione	CAN/RS485				
Ciclo di vita**	≥ 6000 cicli				
Livello di protezione	IP54				
Nome del modulo batteria	HV9637S				
Espansione	Possono essere collegate in parallelo fino a 12 sistemi Tower				
Certificazione	CE-EMC/CE-RED/IEC62040/IEC62619/IEC62477/IEC63056/UN38.3/CEI 0-21				
Inverter compatibili	Ingeteam/Solis/GoodWe/Solplanet/SAJ/DEYE/Hoymiles/SOLINTEG/Kaco ecc.				

* La potenza massima di scarica/carica continua quando si comunica con l'inverter è di 0,6C

** Condizioni di test: 0,2C carica e scarica a 25°C, DOD 95%, EOL 70%



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Rechargeable Li-ion Battery system
Name and address of the applicant	Dyness Digital Energy Technology Co., LTD. Building 5, 688 Liupu Road, Wuzhong District, Suzhou, Jiangsu 215100, China
Name and address of the manufacturer	Daqin New Energy Tech(Taizhou) Co., Ltd No.511 West Chenzhuang Road, Sanshui Street, Jiangyan District, 225500, Taizhou City, Jiangsu Province, China
Name and address of the factory	Daqin New Energy Tech(Taizhou) Co., Ltd No.511 West Chenzhuang Road, Sanshui Street, Jiangyan District, 225500, Taizhou City, Jiangsu Province, China
When more than one factory	☐ Additional information on page 2
Ratings and principal characteristics	Product data – type TS10 Ratings: 288 Vdc, 37 Ah, 10,7 kWh Product data – type TS14 Ratings: 384 Vdc, 37 Ah, 14,2 kWh Product data – type TS17 Ratings: 480 Vdc, 37 Ah, 17,8 kWh Product data – type TS21 Ratings: 576 Vdc, 37 Ah, 21,3 kWh Product data – type TS7 Ratings: 192 Vdc, 37 Ah, 7,1 kWh
Trademark / Brand (if any)	DYNESS
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	TS10, TS14, TS17, TS21 and TS7
Additional information	☐ Additional information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62619:2022
As shown in the Test Report Ref. No. which forms part of this Certificate	6234135.50

This CB Test Certificate is issued by the National Certification Body

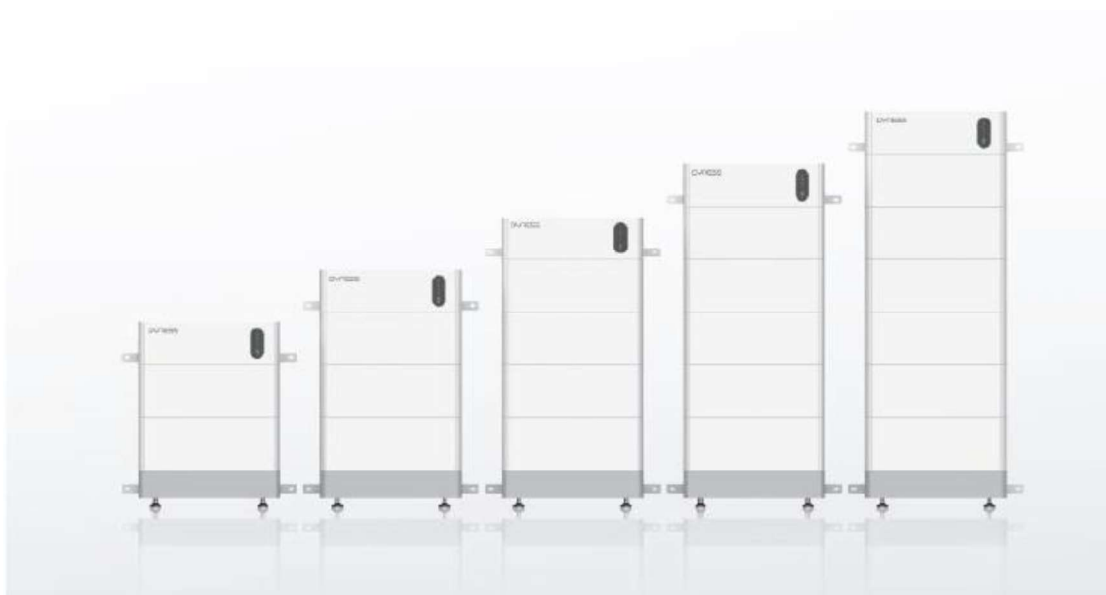
DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands

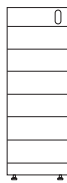
Date: 2025-11-11


Signature: Iris Lu

DYNES

Tower Pro



Modello	Tower Pro TP7	Tower Pro TP11	Tower Pro TP15	Tower Pro TP19	Tower Pro TP23
Schema prodotto					
Tipo di modulo batteria	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄
Quantità di moduli batteria	2	3	4	5	6
Energia nominale	7.68 kWh	11.52 kWh	15.36 kWh	19.2 kWh	23.04 kWh
Energia utilizzabile	7.296 kWh	10.944 kWh	14.592 kWh	18.24 kWh	21.888 kWh
Tensione di funzionamento	168~216V	252~324V	336~432V	420~540V	504~648V
Tensione nominale	192V	288V	384V	480V	576V
Capacità nominale	40Ah	40Ah	40Ah	40Ah	40Ah
Potenza di ricarica/scarica massima CA*	7.68 kW	11.52 kW	15.36 kW	19.2 kW	23.04 kW
Profondità di scarica consigliata (DOD)	95%	95%	95%	95%	95%
Dimensioni [L/P/A] (mm)	587/310/788	587/310/1009	587/310/1230	587/310/1451	587/310/1672
Peso netto [kg]	109.5	150	190.5	231	271.5
Intervallo temperatura di ricarica	-20~55°C				
Intervallo temperatura di scarica	-20~55°C				
Comunicazione	CAN/RS485/RS232				
Ciclo di vita **	≥8000 cicli				
Livello di protezione	IP55				
Garanzia	10 anni				
Vita progettata	15 anni				
Funzione di riscaldamento	Riscaldamento con film di polimide				
Funzione di protezione antincendio	Estinzione di incendi con aerosol				
Funzione di aggiornamento remoto OTA	Dotato				
Nome modulo batteria	HV9640				
Espansione	Fino a 12 Tower Pro possono essere collegate in parallelo				
Certificazioni	IEC62619/IEC63056/IEC62477/IEC62040/CE-EMC/VDE2510-50/CEI 0-21/CEI 0-16				
Inverter compatibili	KOSTAL/Ingeteam/Solis/GoodWe/Kaco/Solplanet/DEYE/Hoymiles/SOLINTEG ect.				

* Potenza di Carica/Scarica Continua Massima quando si comunica con l'inverter è 1C

** Condizioni di prova: Carica e scarica 0,2 C, a 25°C, 95% DOD





Product Service

CERTIFICATE

No. B 120387 0026 Rev. 00

Holder of Certificate: **Dyness Digital Energy Technology Co., LTD.**
Building 5, 688 Liupu Road
Wuzhong District
215100 Suzhou City, Jiangsu Province
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Batteries**
(Rechargeable Li-ion Battery System)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64280246002001

Valid until: 2030-03-11

Date, 2025-03-12

(Ryan Jin)



Product Service

CERTIFICATE

No. B 120387 0026 Rev. 00

Model(s): TP7, TP11, TP15, TP19, TP23

Brand Name: DYNESS

DYNESS



DYNESS

Parameters:

Nominal voltage: TP7: 192Vd.c.
 TP11: 288Vd.c.
 TP15: 384Vd.c.
 TP19: 480Vd.c.
 TP23: 576Vd.c.
 Rated capacity: 40Ah

Tested according to: IEC 62619:2022
 IEC 63056:2020

DYNES

STACK100



Technical Specifications

Model	STACK100
Battery Type	LiFePO4
Module Voltage/Capacity	51.2V/100Ah
System Modules Serial Number	3~15
System Energy Range	15.36-76.8kWh
Operating Voltage	134-876V
Recommended Charge/Discharge Current	50A (0.5C)
Max. Charge/Discharge Current	100A (1C)
Peak Discharge Current (2min 25°C)	125A(1.25C)
Depth of Discharge	95%
Communication	CAN/RS485
Cycle Life ^[1]	Unlimited cycles / 10 Years
Signal Module Weight	47Kg
Max. Single Cluster Dimension[W*D*H]	591*390*1700mm – 11 module
Charging Temp. Range	0 ~ 55°C
Discharging Temp. Range	-20 ~ 55°C
Protection Level	IP20
Fire Protection System	Aerosol fire extinguisher
Installation method	Stack type
Cooling method	Forced wind cooling
WIFI Module	Built-in WIFI module; APP OTA function
Certification & Safety Standard	CE-EMC/CE-RED/62619/63056/62477/62040 /UN38.3
Compatible Inverters	Deye/Goodwe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 95% DOD



Ref. Certif. No.

SE-115579

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Rechargeable Li-ion battery system

Name and address of the applicant

Dyness Digital Energy Technology Co., LTD.
Building 5, 688 Liupu Road, Wuzhong District, Suzhou City,
215100 Jiangsu, China

Name and address of the manufacturer

Same as applicant

Name and address of the factory

Daqin New Energy Technology (Taizhou) Co., Ltd.
No.511 Chenzhuang West Road, Sanshui Street, Jiangyan
District, Taizhou City, Jiangsu Province, China

Note: When more than one factory, please report on page 2

☐ Additional Information on page 2

Ratings and principal characteristics

See page 2

Trademark / Brand (if any)

DYNESS

Customer's Testing Facility (CTF) Stage used

-

Model / Type Ref.

See page 2

Additional information (if necessary may also be reported on page 2)

☐ Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 62619:2022

As shown in the Test Report Ref. No. which forms part of this Certificate

2407B2387SHA-001

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Torshamnsgatan 43
Box 1103
SE-164 22 Kista, Sweden

Date: 02 January, 2025

intertek

Signature:

Hyden Li

Model / Type Ref.

STACK100-3S, STACK100-4S, STACK100-5S, STACK100-6S, STACK100-7S, STACK100-8S, STACK100-9S, STACK100-10S, STACK100-11S, STACK100-12S, STACK100-13S, STACK100-14S, STACK100-15S

Ratings and principal characteristics

STACK100-3S: 153.6V, 100Ah;
STACK100-4S: 204.9V, 100Ah;
STACK100-5S: 256.0V, 100Ah;
STACK100-6S: 307.2V, 100Ah;
STACK100-7S: 358.4V, 100Ah;
STACK100-8S: 409.6V, 100Ah;
STACK100-9S: 460.8V, 100Ah;
STACK100-10S: 512.0V, 100Ah;
STACK100-11S: 563.2V, 100Ah;
STACK100-12S: 614.4V, 100Ah;
STACK100-13S: 665.6V, 100Ah;
STACK100-14S: 716.8V, 100Ah;
STACK100-15S: 768.0V, 100Ah

Date: 02 January, 2025

Signature:

A handwritten signature in blue ink, appearing to be 'upflee'.

DYNES

STACK100 Pro



SPECIFICATION

Model	STACK100 Pro
Battery Type	LiFePO ₄ (LFP)
Nominal Battery Energy	5.12kWh
Usable Battery Energy	4.864kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Module Number per Cluster	3~15 Pcs
Operating Voltage	134.4V~864V
System Energy Range	15.36kWh~76.8kWh
Recommended Charge & Discharge C Rate	0.5C (50A)
Max. Charge & Discharge C Rate	1C (100A)
Peak Discharge Current (25°C)	125A, 2min
Recommended Charging & Discharging Power	2.56kW
Max. Charging & Discharge Power	5.12kW
Depth of Discharge (DOD)	95%
Charging Temp. Range	0°C~55°C/-20°C~55°C (Optional)
Discharging Temp. Range	-20°C~55°C
Net Weight (kg) ^[1]	34.6+55*n
Single Cluster Dimension (W/D/H) ^[2]	657/460/292+169*n
Protection Level	IP66
Communication	CAN/RS485
Cycle Life ^[3]	≥8000 Cycles
User Interface	Built-in WIFI module + APP, LED
Safety Protection	Pressure relief valve, Aerosol fire extinguisher, Temperature probe. Aerogel pad between batteries(Optional), Fireproof protection for the module(Optional), CO detector(Optional)
Cooling method	Natural Cooling
Installation	Cable-free stacking
Expansion	Up to 12 clusters in parallel
Warranty Period ^[4]	10 Years
Country of Manufacture	China
Battery Module Name	S51100 pro
Certification & Safety Standard	CE-EMC/CE-RED/62619/63056/62477/62040/UN38.3/VED2510
Compatible Inverters	Solis/GoodWe/Growatt/DEYE/Solinteg ect.

[1] Net Weight of Expansion Base and Expansion Upper Cover: 18.8kg. "n" stands for the number of battery modules

[2] Height of Expansion Upper Cover: 92mm

[3] Test conditions: 0.2C Charging & Discharging, 25°C, 95% DOD, 70%EOL

[4] Refer to Dyness Warranty Letter



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Rechargeable Li-ion Battery System

Name and address of the applicant

Dyness Digital Energy Technology Co., LTD.
Building 5, 688 Liupu Road, Wuzhong District, Suzhou City
215100 JiangSu
China

Name and address of the manufacturer

Dyness Digital Energy Technology Co., LTD.
Building 5, 688 Liupu Road, Wuzhong District, Suzhou City
215100 JiangSu
China

Name and address of the factory

Note: When more than one factory, please report on page 2

DAQIN NEW ENERGY TECHNOLOGY (TAIZHOU) CO., LTD.
No.511 Chenzhuang West Road, Sanshui Street, Jiangyan District
Taizhou City
China

☐ Additional information on page 2

Ratings and principal characteristics

1) 153.6V, 100Ah, 15.36kWh, 2) 204.8V, 100Ah, 20.48kWh, 3) 256.0V, 100Ah, 25.60kWh, 4) 307.2V, 100Ah, 30.72kWh, 5) 358.4V, 100Ah, 35.84kWh, 6) 409.6V, 100Ah, 40.96kWh, 7) 460.8V, 100Ah, 46.08kWh, 8) 512.0V, 100Ah, 51.20kWh, 9) 563.2V, 100Ah, 56.32kWh, 10) 614.4V, 100Ah, 61.44kWh, 11) 665.6V, 100Ah, 66.56kWh, 12) 716.8V, 100Ah, 71.68kWh, 13) 768.0V, 100Ah, 76.80kWh

Trademark / Brand (if any)

Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

1) STACK100 Pro-3S, 2) STACK100 Pro-4S, 3) STACK100 Pro-5S, 4) STACK100 Pro-6S, 5) STACK100 Pro-7S, 6) STACK100 Pro-8S, 7) STACK100 Pro-9S, 8) STACK100 Pro-10S, 9) STACK100 Pro-11S, 10) STACK100 Pro-12S, 11) STACK100 Pro-13S, 12) STACK100 Pro-14S, 13) STACK100 Pro-15S

Additional information (if necessary may also be reported on page 2)

☐ Additional information on page 2

A sample of the product was tested and found to be in conformity with

IEC 62619:2022, IEC 63056:2020

As shown in the Test Report Ref. No. which forms part of this Certificate

BL-DG2570062-301, BL-DG2570060-301

This CB Test Certificate is issued by the National Certification Body

TÜV NORD CERT GmbH
Am TÜV 1
Essen, 45307
Germany

**TÜV NORD**

Date: 2025-11-18

Signature: Shimeng Wei