

Certificate No.: **AHC2408090123GC03**

Date of issue: 2024-10-18

Valid until: Indefinitely

**Applicant:** **Jiangsu Weiheng Intelligent Technology Co., Ltd.**  
Sheng Xiang, Yaxi Community, Luoshe Town, Huishan District,  
214000, Wuxi City, Jiangsu, Province, P.R. China

**Device Type:** Electrical energy storage system  
**Model** **WH-TIANWU-50-233B, WH-TIANWU-100-233B**

**Trademark:** 

**Technical data:** Rated output power [kW]: 50 ~ 100  
Nominal output AC voltage [V]: 400 (3L + PE, 50 Hz)  
(For further details see A.2 *Technical data of the power generating unit(s)* on p.2)

**Software version:** 2.4.2

**Applied standard(s) / guideline(s):** **EN 50549-1:2019**  
Requirements for generating plants to be connected in parallel with distribution networks - Part 1-1: Connection to a LV distribution network - Generating plants up to and including Type B

**Certification scheme:** **CMPD-01**

**Test report no.:** **HC2408090123GC03 (2024-10-15)**

The above-mentioned generating unit(s) are certified for type A generating modules.

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.

The generating units are considered to be compliant with the relevant articles (see Annex H, EN 50549-1:2019) of *Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators* (NC RfG), provided that all settings as specified by the DSO and responsible party are complied with.

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..

This certificate is for the exclusive use of LYNS's Client and is provided pursuant to the agreement between LYNS and its Client. LYNS's responsibility and liability are limited to the terms and conditions of the agreement. LYNS assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned using this verification.

The certificate is comprised of 3 pages (including Annex of 2 pages).



Dongguan, 2024-10-18

**Dip. 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
Rev. 0	2024-10-18	Initial issue

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

Product family	WH-TIANWU-{50/100}-233B	
Model	WH-TIANWU-50-233B	WH-TIANWU-100-233B
Battery connection		
Battery voltage range [V]	728 ~ 936	
Battery charging current [A]	max. 140	
Battery discharging current [A]	max. 140	
Battery type	LiFePO <sub>4</sub>	
AC connection		
No. of phases	<input type="checkbox"/> Single-phase <input checked="" type="checkbox"/> Three-phase	
Nominal output AC voltage [V]	400 (3L + PE, 50 Hz)	
Max. output AC current [A]	72	144
Nominal active output power [kW]	50	100
Max. apparent output power [kVA]	50	100
Operating temperature range	-20°C ~ +55°C	
Degree of protection	IP55 (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	
Firmware version	2.4.2	
Manufacturer	<b>Jiangsu Weiheng Intelligent Technology Co., Ltd.</b> Sheng Xiang, Yaxi Community, Luoshe Town, Huishan District, 214000, Wuxi City, Jiangsu, Province, P.R. China	

### A.3 Remarks for type testing

Testing laboratory	<b>LYNS-TCI TECHNOLOGY GUANGDONG CO., LTD.</b> Room 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	2024-08-12 ~ 2024-09-18

**A.4 Conformity assessment**

Based on the test results submitted, this certificate provides the following conformity assessment according to the specifications listed on the cover sheet:

Electrical characteristics	Type testing performed	Assessment
4.4 Normal operating range	<input checked="" type="checkbox"/>	Compliant
4.5 Immunity to disturbances	<input checked="" type="checkbox"/>	Compliant
4.6 Active response to frequency deviation	<input checked="" type="checkbox"/>	Compliant
4.7 Power response to voltage variations and voltage changes	<input checked="" type="checkbox"/>	Compliant
4.8 EMC and power quality	<input checked="" type="checkbox"/>	Compliant
4.9 Interface protection	<input checked="" type="checkbox"/>	Compliant
4.10 Connection and starting to generate electrical power	<input checked="" type="checkbox"/>	Compliant
4.11 Ceasing and reduction of active power on set point	<input checked="" type="checkbox"/>	Compliant
4.12 Remote information exchange	<input type="checkbox"/>	Not applicable
4.13 Requirements regarding single fault tolerance of interface protection system and interface switch	<input checked="" type="checkbox"/>	Compliant