

Certificate No.: **LS250043GCC-0**

Date of issue: 2025-04-29

Valid until: Indefinitely

Applicant:	Wuxi Solinteg Power Co., Ltd. Building H1-1001, No. 6 Jingxian Road, Xinwu District, 214135 Wuxi, Jiangsu Province, China		
Product:	Inverter		
Type of energy source	PV + DC coupled Electricity Storage		
Type of embedded Generation	<input type="checkbox"/> Grid-tied SSEG	<input checked="" type="checkbox"/> Grid-tied hybrid SSEG	
	<input type="checkbox"/> Grid-tied battery only	<input type="checkbox"/> Solar PV geyser SSEG	
RPP Category	<input checked="" type="checkbox"/> Category A1: 0 - 13.8 kVA <input checked="" type="checkbox"/> Category A2: 13.8 - 100 kVA <input checked="" type="checkbox"/> Category A3: 100 kVA - 1 MVA <input type="checkbox"/> Category B: 1 MVA - 20 MVA <input type="checkbox"/> Category C: 20 MVA or higher		
Model	M2HT-25K-150, M2HT-29.9K-150, M2HT-30K-150, M2HT-40K-150, M2HT-50K-150		
Trademark:	SOLINTEG		
Technical data:	Max. apparent output power [kVA]:	25.0 ~ 50.0	
	Rated output AC voltage [V]:	230 / 400 (3L + N + PE, 50/60 Hz)	
	(For further details see A.2 on p.2.)		
Software version:	V1.00		
Grid connection code:	NRS 097-2-1:2024 , Edition 3 GRID INTERCONNECTION OF EMBEDDED GENERATION PART 2: SMALL-SCALE EMBEDDED GENERATION SECTION 1: UTILITY INTERFACE		
Certification scheme:	CMPD-01		
Test report no.:	HC2410140199GC05 (2025-04-23)		

This certificate confirms that the above-mentioned product(s) with the corresponding software meet the requirements of the referenced grid connection code at the time of issuance of the certificate. Further information on type testing, including the test specification(s) and standard(s) applied, can be found in Annex A.3 *Remarks for type testing* on p.3.

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, 2025-04-29

Dipl.-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
0	2025-04-29	Initial issue

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

Product family	M2HT-{25 ~ 50}K-150		
Model	M2HT-25K-150	M2HT-29.9K-150	M2HT-30K-150
DC input (PV)			
Max. DC input voltage [V]	1000		
Operating MPPT voltage range [V]	200 ~ 950		
Max. input DC current [A]	40 / 40 / 40 / 40		
Max. DC short-circuit current [A]	50 / 50 / 50 / 50		
Battery connection			
Battery voltage range [V]	150 ~ 840		
Battery charging current [A]	max. 150		
Battery discharging current [A]	max. 150		
Battery type	LiFePo4		
AC connection			
No. of phases	<input type="checkbox"/> Single-phase <input checked="" type="checkbox"/> Three-phase		
Rated output AC voltage [V]	230 / 400 (3L + N + PE, 50/60 Hz)		
Max. output AC current [A]	37.9	45.3	45.5
Rated active output power [kW]	25.0	29.9	30.0
Max. apparent output power [kVA]	25.0	29.9	30.0
Max. input AC current [A]	75.8	90.9	90.9
Max. apparent input power [kVA]	50.0	60.0	60.0
Off-grid operation mode			
Rated output AC voltage [V]	230 / 400 (3L + N + PE, 50/60 Hz)		
Rated output AC current [A]	36.2	43.3	43.5
Rated active output power [kW]	25.0	29.9	30.0
Model	M2HT-40K-150	M2HT-50K-150	
DC input (PV)			
Max. DC input voltage [V]	1000		
Operating MPPT voltage range [V]	200 ~ 950		
Max. input DC current [A]	40 / 40 / 40 / 40		
Max. DC short-circuit current [A]	50 / 50 / 50 / 50		
Battery connection			
Battery voltage range [V]	150 ~ 840		
Battery charging current [A]	max. 150		
Battery discharging current [A]	max. 150		
Battery type	LiFePo4		
AC connection			
No. of phases	<input type="checkbox"/> Single-phase <input checked="" type="checkbox"/> Three-phase		
Rated output AC voltage [V]	230 / 400 (3L + N + PE, 50/60 Hz)		
Max. output AC current [A]	60.6	75.8	
Rated active output power [kW]	40.0	50.0	
Max. apparent output power [kVA]	40.0	50.0	
Max. input AC current [A]	121.2	121.2	

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Max. apparent input power [kVA]	80.0	80.0
Off-grid operation mode		
Rated output AC voltage [V]	230 / 400 (3L + N + PE, 50/60 Hz)	
Rated output AC current [A]	58.0	72.5
Rated active output power [kW]	40.0	50.0
Operating temperature range	-30°C ~ +60°C	
Degree of protection	IP66 (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	V1.00	
Manufacturer	Wuxi Solinteg Power Co., Ltd. No. 2 Xingchuang 1st Road, Xinwu District, Wuxi, Jiangsu Province, China	

A.3 Remarks for type testing

Applied test specification and standard:	IEC 61727:2004 Photovoltaic (PV) systems – Characteristics of the utility interface IEC 62116:2014 Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures GRID CONNECTION CODE FOR RENEWABLE POWER PLANTS (RPPs) CONNECTED TO THE ELECTRICITY TRANSMISSION SYSTEM (TS) OR THE DISTRIBUTION SYSTEM (DS) IN SOUTH AFRICA
Testing laboratory	Lyns-tci Technology Guangdong Co., Ltd. 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	2024-10-16 ~ 2025-03-26
Additional test reports	EMC test report acc.: EN 55011:2016+A2:2021 (CISPR 11:2015 + AMD2:2019) EN IEC 61000-6-1:2019, IEC 61000-6-1:2016 EN IEC 61000-6-2:2019, IEC 61000-6-2:2016 EN IEC 61000-6-3:2021, IEC 61000-6-3:2020 EN IEC 61000-6-4:2019, IEC 61000-6-4:2018 EN IEC 61000-3-2:2019 + A1:2021, IEC 61000-3-2:2018+AMD1:2020 EN 61000-3-12:2011, IEC 61000-3-12:2011 + AMD1:2021 EN 61000-3-3:2013 + A2:2021, IEC 61000-3-3:2013 + AMD2:2021 EN IEC 61000-3-11: 2019, IEC 61000-3-11:2017 No.: 2410140199-RE-EU-01 Date of issue: 2025-02-26 Issued by <i>Hwa-Hsing (Dongguan) Testing Co., Ltd.</i> (Accredited acc. ISO/IEC 17025: A2LA Accreditation no. 5200.01) IEC 61000-2-2:2002+A2:2018, CISPR 11:2019, CISPR 16-2-1:2017 No.: J24-454-WT-02 Date of issue: 2025-01-22 Issued by <i>Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.</i> (Accredited acc. ISO/IEC 17025: CNAS Accreditation no. L0130)
	Safety test report acc.: IEC 62109-1:2010, IEC 62109-2:2011 No.: CN244YDG 001 Date of issue: 2025-03-02 Issued by <i>TUV Rheinland (Shanghai) Co., Ltd.</i> (Accredited acc. ISO/IEC 17025: CNAS Accreditation no. L3038)