

CERTIFICATE

Issued to:
Applicant:
Wuxi Wattsonic Energy Technology Co., LTD
Floor 4 Building H1 NO.6 Jingxian Road, Xinwu
District
214135 Wuxi Jiangsu, China

Licensee:
Wuxi Wattsonic Energy Technology Co., LTD
Floor 4 Building H1 NO.6 Jingxian Road, Xinwu
District
214135 Wuxi Jiangsu, China

Product : Hybrid inverter (NS Protection)
Trade name(s) : wattsonic
Type(s)/model(s) : MATIC-10KW-50A, MATIC-12KW-50A, MATIC-15KW-50A, MATIC-20KW-50A
and MATIC-25KW-50A

The product and any acceptable variation thereof as specified in the Annex to this certificate and the documents referred to therein.

DEKRA hereby declares that the above-mentioned product has been certified based on:

- a type test according to VDE-AR-N 4105:2018 and DIN VDE V 0124-100:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 421
- a DEKRA certification agreement with the number 6073545

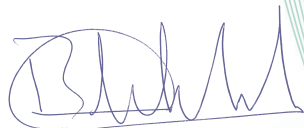
DEKRA hereby grants the right to use the DEKRA Mark.

The DEKRA Mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Mark certification agreement.

This certificate is issued on 13 April 2026 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 31-173473

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



31-173473

DEKRA Mark is the new KEMA-KEUR

The DEKRA Mark certificate for this product is to all intents and purposes equivalent to a KEMA-KEUR certificate, the other certification mark used by DEKRA and should be valued and used as such. DEKRA Mark is gradually replacing KEMA-KEUR.

For more information please check: [Introducing DEKRA Mark](#)

SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Hybrid inverter (NS Protection)
Trade name(s)	: wattsonic
Type(s)/model(s)	: MATIC-10KW-50A, MATIC-12KW-50A, MATIC-15KW-50A, MATIC-20KW-50A and MATIC-25KW-50A
Type of NS protection	: Integrated NS protection
Assigned to Power generation unit type	: MATIC-10KW-50A, MATIC-12KW-50A, MATIC-15KW-50A, MATIC-20KW-50A, MATIC-25KW-50A
Software version	: V01.0.0

TESTS**Test requirements**

VDE-AR-N 4105:2018

DIN VDE V 0124-100:2020

Test result

The test results are documented in DEKRA test file 617959700.

Additional information

This certificate is the NS protection certificate for PV Microinverter

The list of components is laid down in test report 6179597.51.

Conclusion

The examination has confirmed that all requirements were met.

Factory location

Wuxi Wattsonic Energy Technology Co., LT D

NO.31 Jinma Road, Xinwu District

214135 Wuxi Jiangsu, China

Trade name(s): **WATTSONIC**

E.7 Requirement for the NS protection test report (VDE-AR-N 4105:2018-11) E.7 Anforderungen an den Prüfbericht zum NA-Schutz			
Extract of the test report for NS protection Determination of electrical properties" <i>Auszug aus dem Prüfbericht für den NA-Schutz Bestimmung der elektrischen Eigenschaften"</i>		Report No.: 6179597.51 Bericht Nr.:	
Test report NS protection <i>Prüfbericht NA-Schutz</i>			
Type of NS protection: <i>Typ NA-Schutz:</i>		Integrated NS protection <i>Integrierter NA-Schutz</i>	
Software version: <i>Software version:</i>		V01.0.0	
Manufacturer: <i>Hersteller:</i>		Wuxi Wattsonic Energy Technology Co., LTD	
Measuring period: <i>Messzeitraum:</i>		From 2025-07-04 to 2026-02-02 <i>Vom 2025-07-04 bis 2026-02-02</i>	
		Inverter <i>Umrichter</i>	
Protection function <i>Schutzfunktion</i>	Setting tripping value <i>Einstellwert</i>	Measured tripping value <i>Auslösewert</i>	Measured tripping time <i>Auslösezeit NA-Schutz</i>
Rise-in-voltage protection $U >>$ <i>Spannungssteigerungsschutz $U >>$</i>	$1.25 * U_n$	288.0 V	122.5 ms
Rise-in-voltage protection $U >$ <i>Spannungssteigerungsschutz $U >$</i>	$1.1 * U_n$	$1.1 * U_n$	$\leq 100 \text{ ms} *$
Voltage drop protection $U <$ <i>Spannungsrückgangsschutz $U <$</i>	$0.8 * U_n$	183.5 V	3041 ms
Voltage drop protection $U <<$ <i>Spannungsrückgangsschutz $U <<$</i>	$0.45 * U_n$	102.8 V	332.7 ms
Frequency decrease protection $f <$ <i>Frequenzrückgangsschutz $f <$</i>	47.5 Hz	47.50 Hz	134.7 ms
Frequency decrease protection $f >$ <i>Frequenzsteigerungsschutz $f >$</i>	51.5 Hz	51.50 Hz	123.5 ms
<p>* The rise-in voltage protection as a running 10-minute mean value, Max. disconnecting time is 486.6s. * <i>Der anstiege Spannungsschutz als laufender 10-Minuten-Mittelwert, Max. TrennZeit beträgt 486.6 s.</i> The tripping time covers the period from the limit value violation U/f to the tripping signal to the interface switch. <i>Die Auslösezeit umfasst den Zeitraum von der Grenzwertverletzung U/f bis zum Auslösesignal an den Kuppelschalter.</i> When planning the power generation system, the inherent time of the interface switch must be added to the highest time value determined above. <i>Bei der Planung der Erzeugungsanlage ist die Eigenzeit des Kuppelschalters zum höchsten oben ermittelten Zeitwert zu addieren.</i> The switch-off time (total of the tripping time NS protection plus the inherent time of the interface switch) must not exceed 200 ms. <i>Die Abschaltzeit (Summe der Auslösezeit NA-Schutz zzgl. Eigenzeit des Kuppelschalters) darf 200 ms nicht überschreiten.</i></p>			
<input checked="" type="checkbox"/> By integrated NS Protection Bei integriertem NA-Schutz			
Assigned to PGU type: <i>Typ Erzeugungseinheit:</i>		MATIC-10KW-50A, MATIC-12KW-50A, MATIC-15KW-50A, MATIC-20KW-50A, MATIC-25KW-50A	
Integrated interface switch type: <i>Typ integrierter Kuppelschalter</i>		Xiamen Hongfa Electroacoustic Co., Ltd. Relay: HF167F/12-HTF	
Interface switch own time with integrated NS protection <i>Eigenzeit des Kuppelschalters bei integriertem NA-Schutz</i>		Operation time: 30 ms max; Release time: 10 ms max	
<p>The verification of the full function chain "NS protection- Interface switch" has yield to intended disconnection. <i>Die Überprüfung der Gesamtwirkungskette „integrierter NA-Schutz – Kuppelschalter“ führte zu einer erfolgreichen Abschaltung.</i></p>			