## CERTIFICATE of Conformity

<b>Registration No.:</b>	AK 50657070 0001
Report No.:	CN23X0AE 004
Holder:	MADEnR
	20 Avenue Marcel Liabastre
	14600 Honfleur
	France
Product:	PV-Inverter
	(Utility-Interactive Inverter)

#### Type designation listed on the next page

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 on the next page. 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.

	Certification Body
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Date: 2024-12-11



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### TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg



## CERTIFICATE of Conformity

Registration No.:	AK 50657070 0001
Product:	PV-Inverter (Utility-Interactive Inverter)
Tested according to:	EN 62109-1:2010 EN 62109-2:2011 IEC 62109-1:2010 IEC 62109-2:2011
Identification:	Type Designation 1) MI 600 LC , 2) MI 800 LC , 3) MI 1000 LC , 4) MI 600 P2 , 5) MI 800 P2 , 6) MI 1000 P2 Serial number: 2410150278 Remark(s) : Refer to test report CN23X0AE 004 for details.



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### **Certificate of compliance**

Applicant:	MADEnR	
	20 Avenue Marcel Liabastre, 14600 Honfleur	
	France	
Product:	Photovoltaic inverter	
Model:	MI 600 LC, MI 800 LC, MI 1000 LC,	
	MI 600 P2, MI 800 P2, MI 1000 P2	

#### The device is designed to work as a generation unit of the type: A

Inverter for single-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

#### Applied rules and standards:

#### EN 50549-1:2019

- Requirements for parallel connection of installations with distribution networks Part 1: Connection to an LV distribution network Production of installations up to and including Type B
- 4.4 Normal operating range
- 4.5 Immunity to disturbances
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

#### EN 50549-10:2022

Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units

#### Commission Regulation (EU) 2016/631 of 14 April 2016

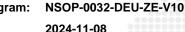
Establishing a network code on requirements for grid connection of generators (NC RFG). Type approval for generation units to use in Type A plants.

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

#### Report number: ASUE-ESH-P24101056

Certificate number: U24-1050





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Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkkS) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkkS) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this certificate of conformity shall not be reproduced.

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Businesspark A96 86842 Tuerkheim certification.deu@bureauveritas.com Certificate number U24-1050



#### Annex certificate of conformity No. U24-1050

Extract from test report ASUE-ESH-P24101056 issued by a testing laboratory accredited by "Deutsche Akkreditierungsstelle GmbH (DAkkS)" according to ISO/IEC 17025. The accreditation is only valid for the scope listed in the annex of the accreditation certificate "D-PL-12024-03-04".

Manufacturer	MADEnR 20 Avenue Marcel Liabastre, 14600 Honfleur France				
Product type	Photovoltaic inverter	Photovoltaic inverter			
Static converter model	MI 600 LC	MI 800 LC	MI 1000 LC	MI 600 P2	
Input (DC photovoltaic)					
MPP voltage range [V]	25-55	25-55	25-55	25-55	
Max. input voltage [V]	60	60	60	60	
Max. input current [A]	13*2	13*2	13*2	18*2	
Output (AC)					
Rated AC voltage [V]	230, L/N/PE, 50Hz	230, L/N/PE, 50Hz	230, L/N/PE, 50Hz	230, L/N/PE, 50Hz	
Max. output current [A]	2,7	3,5	4,4	2,7	
Nom. converter output (PNINV) [W]	600	800	1000	600	
Max. apparent power [VA]	600	800	1000	600	



#### Annex certificate of conformity No. U24-1050

Extract from test report ASUE-ESH-P24101056 issued by a testing laboratory accredited by "Deutsche Akkreditierungsstelle GmbH (DAkkS)" according to ISO/IEC 17025. The accreditation is only valid for the scope listed in the annex of the accreditation certificate "D-PL-12024-03-04".

Manufacturer	MADEnR			
	20 Avenue Marcel Liat	bastre, 14600 Honfleur		
	France			
Product type	Photovoltaic inverter			
Static converter model	MI 800 P2	MI 1000 P2		
Input (DC photovoltaic)				
MPP voltage range [V]	25-55	25-55		
Max. input voltage [V]	60	60		
Max. input current [A]	18*2	18*2		
Output (AC)				
Rated AC voltage [V]	230, L/N/PE, 50Hz	230, L/N/PE, 50Hz		
Max. output current [A]	3,5	4,4		
Nom. converter output (PNINV) [W]	800	1000		
Max. apparent power [VA]	800	1000		
Interface protection system and i	nterface switch (Netwo	ork and system protectio	n "NS-protection")	
· ·	· · ·	<u> </u>	. ,	
Type of protection	integrated NS-prote	ection		
Assigned to generation unit type	MI 600 LC, MI 800 LC, MI 1000 LC, MI 600 P2, MI 800 P2, MI 1000 P2			
Integrated interface switch	Type of switching equipment 1: galvanic separation HF-Transformer			
	Type of switching equipment 2: Relay (Model HF140FF)			
	Note: The output is su neutral.	witched off by the inverter brid	lge and one relay in ser	ies in each line and
	1			
Firmware version	0308-1426			

The settings of the interface protection are password protected adjustable.

In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.

The above stated generators are tested according to the requirements in the EN 50549-1:2019 and the Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.

# CERTIFICATE

## of Conformity Directive 2014/53/EU Radio Equipment

Registration No.:
Report No.:
Holder:

AT 50659617 0001 CN24DGYQ 001 MADEnR 20 Avenue Marcel Liabastre 14600 Honfleur France

Product:

PV-Inverter (Utility-Interactive Inverter)

#### Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with relevant clauses of Article 3 of Directive 2014/53/EU (details see next page). This certificate does not imply assessment of the production and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate as part of the technical documentation and in combination with the EC Declaration of Conformity. This is not an EU-Type Examination Certificate.

Certification Body

Date: 2025-01-14

Tongle Lee

### TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg





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# CERTIFICATE

## of Conformity Directive 2014/53/EU **Radio Equipment**

Registration No.:	AT 50659617 0001
Product:	PV-Inverter
	(Utility-Interactive Inverter)
Tested according to:	EN 300328 V 2.2.2:2019
	EN 301489-1 V 2.2.3:2019
	EN 301489-17 V 3.2.4:2020
	EN 55011:2016+A1+A11+A2
	EN 62109-1:2010
	EN 62109-2:2011
	EN 62920:2017+A11+A1
	IEC 62109-1:2010
	IEC 62109-2:2011
	IEC 62920:2017+A1
	EN IEC 61000-6-1:2019
	EN IEC 61000-6-2:2019
	EN IEC 61000-6-3:2021
	EN IEC 61000-6-4:2019
	EN IEC 62311:2020
	CISPR 11:2015+A1+A2
Identification:	Type Designation

MI 600 LC, MI 800 LC, MI 1000 LC, MI 600 P2, MI 800 P2, MI 1000 P2



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