

Certificate of compliance

Applicant: TommaTech GmbH
Zeppelinstr. 14 - 85748 Garching b.München
Germany

Product: Hybrid inverter

Model: UNO-HYB-LV-N3.6K-5P, UNO-HYB-LV-N5K-5P, UNO-HYB-LV-N6K-5P,
UNO-HYB-LV-N7K-5P, UNO-HYB-LV-N7.6K-5P, UNO-HYB-LV-N8K-5P,
UNO-HYB-LV-N10K-5P, UNO-HYB-LV-N7K-5, UNO-HYB-LV-N7.6K-5,
UNO-HYB-LV-N8K-5, UNO-HYB-LV-N8K-5O, UNO-HYB-LV-N10K-5

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/A1:2023

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-P25080995

Certificate number: U25-0847

Certification Program: NSOP-0032-DEU-ZE-V10

Date of issue: 2025-10-02

Certification body

Accreditation



Domenik Koll
Head of Energy Systems Germany



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.

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Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016

Manufacturer	TommaTech GmbH Zeppelinstr. 14 - 85748 Garching b.München Germany			
Product type	Hybrid inverter			
Static converter model	UNO-HYB-LV-N3.6K-5P	UNO-HYB-LV-N5K-5P	UNO-HYB-LV-N6K-5P	UNO-HYB-LV-N7K-5P
Input DC (photovoltaic)				
MPP voltage range [V]	150-425	150-425	150-425	150-425
Max. input voltage [V]	500	500	500	500
Max. input current per MPPT [A]	18+18	18+18	18+18	32+32
Input DC (battery)				
DC voltage range [V]	40-60	40-60	40-60	40-60
Max. DC voltage [V]	60	60	60	60
Max. DC current per DC input [A]	90	120	135	175
Output AC				
Rated AC voltage [V]	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz
Rated output current [A]	15,7	21,8	26,1	30,5
Max. output current [A]	17,3	24,0	28,7	33,5
Nom. converter output (P _{NINV}) [kW]	3,60	5,00	6,00	7,00
Max. apparent power [kVA]	3,96	5,50	6,60	7,70
Static converter model	UNO-HYB-LV-N7.6K-5P	UNO-HYB-LV-N8K-5P	UNO-HYB-LV-N10K-5P	UNO-HYB-LV-N8K-50
Input DC (photovoltaic)				
MPP voltage range [V]	150-425	150-425	150-425	150-425
Max. input voltage [V]	500	500	500	500
Max. input current per MPPT [A]	32+32	32+32	32+32	26+26
Input DC (battery)				
DC voltage range [V]	40-60	40-60	40-60	40-60
Max. DC voltage [V]	60	60	60	60
Max. DC current per DC input [A]	190	190	210	190
Output AC				
Rated AC voltage [V]	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz
Rated output current [A]	33,1	34,8	43,5	34,8
Max. output current [A]	36,4	38,3	47,9	38,3
Nom. converter output (P _{NINV}) [kW]	7,60	8,00	10,00	8,00
Max. apparent power [kVA]	8,36	8,80	11,00	8,80
Static converter model	UNO-HYB-LV-N7K-5	UNO-HYB-LV-N7.6K-5	UNO-HYB-LV-N8K-5	UNO-HYB-LV-N10K-5

Input DC (photovoltaic)				
MPP voltage range [V]	150-425	150-425	150-425	150-425
Max. input voltage [V]	500	500	500	500
Max. input current per MPPT [A]	26+26	26+26	26+26	26+26
Input DC (battery)				
DC voltage range [V]	40-60	40-60	40-60	40-60
Max. DC voltage [V]	60	60	60	60
Max. DC current per DC input [A]	175	190	190	210
Output AC				
Rated AC voltage [V]	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz	L/N/PE, 230V, 50Hz
Rated output current [A]	30,5	33,1	34,8	43,5
Max. output current [A]	33,5	36,4	38,3	47,9
Nom. converter output (P _{NINV}) [kW]	7,00	7,60	8,00	10,00
Max. apparent power [kVA]	7,70	8,36	8,80	11,00

Interface protection system and interface switch (Network and system protection “NS-protection”)	
Type of protection	Integrated NS-protection
Assigned to generation unit type	UNO-HYB-LV-N3.6K-5P, UNO-HYB-LV-N5K-5P, UNO-HYB-LV-N6K-5P, UNO-HYB-LV-N7K-5P, UNO-HYB-LV-N7.6K-5P, UNO-HYB-LV-N8K-5P, UNO-HYB-LV-N10K-5P, UNO-HYB-LV-N7K-5, UNO-HYB-LV-N7.6K-5, UNO-HYB-LV-N8K-5, UNO-HYB-LV-N8K-5O, UNO-HYB-LV-N10K-5
Integrated interface switch	Type of switching equipment 1: Relay (Model ME109-S-1A-JF) Type of switching equipment 2: Relay (Model ME109-S-1A-JF)
	Note: The output is switched off by the inverter bridge and two relays in series in each line and neutral.
Firmware version	B388
Note 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 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.	