

Certificate of compliance

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

Product: Photovoltaic and battery inverter (Hybrid-Inverter)

Model: UNO-HYB-LV-N3K-4O
UNO-HYB-LV-N3.6K-4O
UNO-HYB-LV-N5K-4O
UNO-HYB-LV-N6K-4O
UNO-HYB-LV-N3K-4
UNO-HYB-LV-N3.6K-4
UNO-HYB-LV-N5K-4
UNO-HYB-LV-N6K-4

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

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-P25061642

Certificate number: U25-0818

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

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Certification body

Accreditation



Georg LORITZ
Lab Supervisor Energy Systems



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	Photovoltaic and battery inverter (Hybrid-Inverter)			
Static converter model	UNO-HYB-LV-N3K-4O	UNO-HYB-LV-N3.6K-4O	UNO-HYB-LV-N5K-4O	UNO-HYB-LV-N6K-4O
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+18
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]	70	90	120	135
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]	13,0	15,7	21,7	26,1
Max. output current [A]	14,3	17,2	23,9	28,7
Nom. converter output (P _{NINV}) [W]	3000	3600	5000	6000
Max. apparent power [VA]	3300	3960	5500	6600
Static converter model	UNO-HYB-LV-N3K-4	UNO-HYB-LV-N3.6K-4	UNO-HYB-LV-N5K-4	UNO-HYB-LV-N6K-4
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+18
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]	70	90	120	135
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]	13,1	15,7	21,8	26,1
Max. output current [A]	14,4	17,3	24,0	28,7
Nom. converter output (P _{NINV}) [W]	3000	3600	5000	6000
Max. apparent power [VA]	3300	3960	5500	6600

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-N3K-4O, UNO-HYB-LV-N3.6K-4O, UNO-HYB-LV-N5K-4O, UNO-HYB-LV-N6K-4O, UNO-HYB-LV-N3K-4, UNO-HYB-LV-N3.6K-4, UNO-HYB-LV-N5K-4, UNO-HYB-LV-N6K-4
Integrated interface switch	Type of switching equipment 1: Relay (Model AZSR143) Type of switching equipment 2: Relay (Model AZSR143)
	Note: The output is switched off by the inverter bridge and two relay in series in line and neutral.
Firmware version	4384
Note The settings of the generators are password protected adjustable. In case the 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 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.	