Certificate of compliance

Applicant:	**TommaTech GmbH** **Zeppelinstr.14** **85748 Garching b. München** **Germany**
Product:	**Energy Storage Photovoltaic Inverter**
Model:	**Trio-Hybrid L 15.0KP,Trio-Hybrid L 15.0K,Trio-Hybrid L 20.0K, Trio-Hybrid L 20.0KP, Trio-Hybrid L 25.0K, Trio-Hybrid L 30.0K**

Inverter for three-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:

IEC 61727:2004
Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2008 / IEC 62116:2014
Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

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:	**SXP-ESH-P25071734-1, SXP-ESH-P25071734-2**	**Certification Program:**	**NSOP-0032-DEU-ZE-ES-V10**
Certificate number:	**U25-0955**	**Date of issue:**	**2025-10-22**

Certification body

Domenik Koll
Head of Energy Systems Germany

Accreditation

DAkkS Deutsche Akkreditierungsstelle D-ZE-12024-01-00

Annex certificate of conformity No. U25-0955

Extract from test report SXP-ESH-P25071734-1, SXP-ESH-P25071734-2 issued by a testing laboratory accredited by "A2LA" according to ISO/IEC 17025. The accreditation is only valid for the scope listed in the annex of the accreditation certificate "2343.01".

Type Approval and declaration of compliance with the requirements of IEC 61727, IEC 62116				
Manufacturer	TommaTech GmbH Zeppelinstr.14 85748 Garching b. München Germany			
Product type	Energy Storage Photovoltaic Inverter			
Static converter model	Trio-Hybrid L 15.0KP	Trio-Hybrid L 15.0K	Trio-Hybrid L 20.0K	--
Input (PV DC)				
MPP voltage range [V]	160-950	160-950	160-950	--
Max. input voltage [V]	1000	1000	1000	--
Max. input current per MPPT [A]	36/36/36	36/36	36/36	--
Input (DC battery)				
DC voltage range [V]	120-800	120-800	120-800	--
Max. DC voltage [V]	800	800	800	--
Max. DC current per DC input [A]	60(30*2)	60(30*2)	60(30*2)	--
Output (AC)				
Rated AC voltage [V]	220/380,230/400Vac, 50/60Hz	220/380,230/400Vac, 50/60Hz	220/380,230/400Vac, 50/60Hz	--
Rated output current [A]	24,0	24,0	31,9	--
Max. output current [A]	24,0	24,0	31,9	--
Nom. converter output (P_{NINV}) [kW]	16500	16500	22000	--
Rated apparent power [kVA]	16500	16500	22000	--
On-grid battery mode AC (feed-in power / charge power)				
P_{sn} (nom. discharge power) [kW]	16,5	16,5	22,0	--
P_{cn} (nom. charging power) [kW]	16,5	16,5	22,0	--
P_{smax} (max. discharge power) [kW]	16,5	16,5	22,0	--
P_{cmax} (max. charging power) [kW]	16,5	16,5	22,0	--
Type	Bidirectional	Bidirectional	Bidirectional	--
Static converter model	Trio-Hybrid L 20.0KP	Trio-Hybrid L 25.0K	Trio-Hybrid L 30.0K	--
Input (PV DC)				
MPP voltage range [V]	160-950	160-950	160-950	--
Max. input voltage [V]	1000	1000	1000	--
Max. input current per MPPT [A]	60(30*2)	60(30*2)	60(30*2)	--
Input (DC battery)				
DC voltage range [V]	120-800	120-800	120-800	--
Max. DC voltage [V]	800	800	800	--
Max. DC current per DC input [A]	60(30*2)	60(30*2)	60(30*2)	--
Output (AC)				

Rated AC voltage [V]	220/380,230/400Vac, 50/60Hz	220/380,230/400Vac, 50/60Hz	220/380,230/400Vac, 50/60Hz	--
Rated output current [A]	31,9	39,9	43,5	--
Max. output current [A]	31,9	39,9	43,5	--
Nom. converter output (P_{NINV}) [kW]	22,0	27,5	30,0	--
Rated apparent power [kVA]	22,0	27,5	30,0	--
On-grid battery mode AC (feed-in power / charge power)				
P_{sn} (nom. discharge power) [kW]	22,0	27,5	30,0	--
P_{cn} (nom. charging power) [kW]	22,0	27,5	30,0	--
P_{smax} (max. discharge power) [kW]	22,0	27,5	30,0	--
P_{cmax} (max. charging power) [kW]	22,0	27,5	30,0	--
Type	Bidirectional	Bidirectional	Bidirectional	--

Interface protection system and interface switch (Network and system protection "NS-protection")	
Type of protection	Integrated NS-protection
Assigned to generation unit type	Trio-Hybrid L 15.0KP,Trio-Hybrid L 15.0K,Trio-Hybrid L 20.0K, Trio-Hybrid L 20.0KP, Trio-Hybrid L 25.0K, Trio-Hybrid L 30.0K
Integrated interface switch	Type of switching equipment 1: Relay (Model HF165F/12-HT(A21) Type of switching equipment 2: Relay (Model HF165F/12-HT(A21)
	Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.
Software	
Firmware version	DSP: 2.07; ARM: 2.03
Note The settings of the product 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 IEC 61727, IEC 62116. 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.	