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VDE-AR-N 4105:2018-11 **Certificate of conformity for generators connected to the low-voltage distribution network**		
Manufacturer	FIMER S.p.A. Via S. Giorgio, 642 52028 Terranuova Bracciolini (AR) - Italy	
Type of power generation unit	Grid Tied Solar Inverter	
Assessment values	Max. active power P_{Emax}	See Table 1
	Max. apparent power S_{Emax}	See Table 1
	Rated voltage	See Table 1
Rated values	Rated current (AC) I_r	See Table 1
Rated values	Initial short-circuit AC current	See Table 1
Network connection rule	**VDE-AR-N 4105:2018-11** **"Generators connected to the low-voltage distribution network"** Technical requirements for connection to and parallel operation with low-voltage distribution networks	

The power generation units listed in Table 1 meets the requirements of VDE-AR-N 4105:2018-11.

- All requirements of VDE-AR-N 4105:2018-11 are fulfilled and have been confirmed via type tests conducted in FIMER S.p.A.
- The conformity is ensured for all products with model name and firmware version as listed in Table 1.

Terranuova Bracciolini, **23.12.2021**

Paolo Casini
(Chief Technical Officer)

Alessandro Rossi
(Testing & Laboratory Manager)

This certificate of conformity of two pages shall not be used in parts.

FIMER S.p.A.
Via San Giorgio, 642 – 52028 Terranuova Bracciolini – Arezzo – Italy
Web Site: www.fimer.com

Inverter models	Maximum active power P_{Emax}	Maximum apparent power S_{Emax}	AC rated voltage	Rated current (AC) I_r	Initial short-circuit AC current	Fulfill VDE-AR-N 4105:2018-11 requirements from firmware version
PVS-20-TL-SX	22000 W up to 30°C	22000 VA up to 30°C	380 / 400 V	31.9 A	38.4 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-20-TL-SY	22000 W up to 30°C	22000 VA up to 30°C	380 / 400 V	31.9 A	38.4 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-20-TL-SXD	22000 W up to 30°C	22000 VA up to 30°C	380 / 400 V	31.9 A	38.4 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-30-TL-SX	33000 W up to 30°C	33000 VA up to 30°C	380 / 400 V	47.9 A	57.6 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-30-TL-SY	33000 W up to 30°C	33000 VA up to 30°C	380 / 400 V	47.9 A	57.6 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-33-TL-SX	36300 W up to 30°C	36300 VA up to 30°C	380 / 400 V	52.7 A	63.3 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-33-TL-SY	36300 W up to 30°C	36300 VA up to 30°C	380 / 400 V	52.7 A	63.3 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-33-TL-SI	36300 W up to 30°C	36300 VA up to 30°C	380 / 400 V	52.7 A	63.3 A	Not less than 2045E Standard Selection: GERMANY (VDE 4105:2018)
PVS-20-TL-SX	20000 W up to 30°C	20000 VA up to 30°C	380 / 400 V	31.9 A	38.4 A	Not less than 2144B Standard Selection: GERMANY (VDE 4105:2018 PNOM)
PVS-20-TL-SY	20000 W up to 30°C	20000 VA up to 30°C	380 / 400 V	31.9 A	38.4 A	Not less than 2144B Standard Selection: GERMANY (VDE 4105:2018 PNOM)

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Inverter models	Maximum active power P_{Emax}	Maximum apparent power S_{Emax}	AC rated voltage	Rated current (AC) I_r	Initial short-circuit AC current	Fulfill VDE-AR-N 4105:2018-11 requirements from firmware version
PVS-20-TL-SXD	20000 W up to 30°C	20000 VA up to 30°C	380 / 400 V	31.9 A	38.4 A	Not less than 2144A Standard Selection: GERMANY (VDE 4105:2018 PNOM)
PVS-30-TL-SX	30000 W up to 30°C	30000 VA up to 30°C	380 / 400 V	47.9 A	57.6 A	Not less than 2144A Standard Selection: GERMANY (VDE 4105:2018 PNOM)
PVS-30-TL-SY	30000 W up to 30°C	30000 VA up to 30°C	380 / 400 V	47.9 A	57.6 A	Not less than 2144A Standard Selection: GERMANY (VDE 4105:2018 PNOM)
PVS-33-TL-SX	33000 W up to 30°C	33000 VA up to 30°C	380 / 400 V	52.7 A	63.3 A	Not less than 2144A Standard Selection: GERMANY (VDE 4105:2018 PNOM)
PVS-33-TL-SY	33000 W up to 30°C	33000 VA up to 30°C	380 / 400 V	52.7 A	63.3 A	Not less than 2144A Standard Selection: GERMANY (VDE 4105:2018 PNOM)
PVS-33-TL-SI	33000 W up to 30°C	33000 VA up to 30°C	380 / 400 V	52.7 A	63.3 A	Not less than 2144A Standard Selection: GERMANY (VDE 4105:2018 PNOM)

Table 1
FIMER Italy S.p.A Grid Tied Solar Inverters in compliance with VDE-AR-N 4105:2018-11