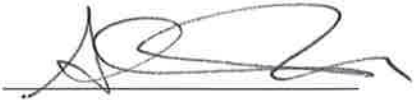
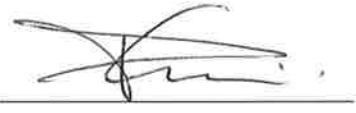




1/2 Ref. PVS-60(50)-TL (Fimer_VDE-AR-N 4105 Form E6_EN)

VDE-AR-N 4105:2018-11 Certificate of conformity for the NS protection integrated in the inverters	
Manufacturer	Fimer S.p.A. Via Tortona, 25 20144 Milano (MI)- Italy
Type of NS protection	Relay contacts
Integrated NS protection assigned to power generation unit type	Relay
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 network
The network and system protection integrated in the power generation units listed in Table 1 meets the requirements of VDE-AR-N 4105:2018-11.	
The setting values and disconnection times (total break times) of the protective functions are as follows: Voltage drop protection $U <$: 184 V \leq 3000 ms Rise-in-voltage protection $U > (*)$: 253 V $<$ 200 ms Rise-in-voltage protection $U >>$: 287,5 V \leq 100 ms Frequency decrease protection $f <$: 47,5 Hz \leq 100 ms Frequency increase protection $f >$: 51,5 Hz \leq 100 ms (*) moving 10-minute average protection according EN 50160 - 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, 19 January 2021	
 Alessandro Rossi (Testing & Laboratory Manager)	 Paolo Casini (Chief Technical Officer)
This certificate of conformity of two pages shall not be used in parts. Fimer S.p.A. Via Tortona, 25, 20144 Milano (MI) Italy	

FIMER S.p.A.

HQ & Manufacturing Unit: Via J.F. Kennedy – 20871 Vimercate (MB) – Italy
Manufacturing Unit: Via San Giorgio 642 – 52028 Terranuova B.ni (AR) – Italy
Registered Office: Via Tortona 25 – 20144 Milano – Italy
C.C.I.A.A. Milano/ C.F.09286180154 – REA MI – 2609050
VAT 01574720510 – Cap. Soc. € 22.000.000,00 i.v

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T +39 055 91.95.1
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	Fulfil VDE-AR-N 4105:2018-11 requirements from firmware version
PVS-60-TL PVS-60-TL-S PVS-60-TL-SX PVS-60-TL-SX2 PVS-60-TL-SX-CN	66000 W	66000 VA	480 V	80 A	92 A	Not less than 1927C Standard selection: GERMANY (VDE 4105:2018-11)
PVS-50-TL PVS-50-TL-S PVS-50-TL-SX PVS-50-TL-SX2	55000 W	55000 VA	400 V	80 A	92 A	Not less than 1927B Standard selection: GERMANY (VDE 4105:2018-11)

TABLE 1. Fimer S.p.A. Grid Tied Solar Inverter in compliance with VDE-AR-N 4105:2018-11

FIMER S.p.A.

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