Factory Inspection Certificate

TÜVRheinland®

Registration No.: AK 60171001 0001 **Report No.: IT23YMKE 001**

License Holder:

FIMER S.p.A.
Via Tortona, 25, I - 20144
Milano (MI) - Italy

Manufacturer(1) **:**

FIMER S.p.A..
Via S. Giorgio, 642 - 52028
Terranuova Bracciolini, Arezzo, Italy

Product: Solar Grid Tied Inverter

Trademark: FIMER
Alternative: ABB (4)

Models:

UNO-4.2-TL-OUTD; UNO-4.2-TL-OUTD-S;
UNO-3.6-TL-OUTD; UNO-3.6-TL-OUTD-S;
UNO-3.0-TL-OUTD; UNO-3.0-TL-OUTD-S;
UNO-2.0-TL-OUTD; UNO-2.0-TL-OUTD-S;

TRIO-8.5-TL-OUTD-400; TRIO-8.5-TL-OUTD-S-400;
TRIO-7.5-TL-OUTD-400; TRIO-7.5-TL-OUTD-S-400;
TRIO-5.8-TL-OUTD-400; TRIO-5.8-TL-OUTD-S-400;
TRIO-5.0-TL-OUTD-400; TRIO-5.0-TL-OUTD-S-400;

REACT-UNO-4.6-TL; REACT-UNO-3.6-TL;
REACT-BATT-AP1;

PRO-33.0-TL-OUTD-400; PRO-33.0-TL-OUTD-S-400;
PRO-33.0-TL-OUTD-SX-400;

TRIO-50.0-TL-OUTD;
TRIO-50.0-TL-OUTD-POWER MODULE;
DCWB-TRIO-50.0-TL-OUTD; DCWB-S-TRIO-50.0-TL-OUTD;
DCWB-SX-TRIO-50.0-TL-OUTD;
DCWB-SY-TRIO-50.0-TL-OUTD;
ACWB-TRIO-50.0-TL-OUTD; ACWB-S-TRIO-50.0-TL-OUTD; ACWB-SX-TRIO-50.0-TL-OUTD;

TRIO-60.0-TL-OUTD-480;
TRIO-60.0-TL-OUTD-480-POWER MODULE;
DCWB-TRIO-60.0-TL-OUTD-480; DCWB-S-TRIO-60.0-TL-OUTD-480;
DCWB-SX-TRIO-60.0-TL-OUTD-480;
ACWB-TRIO-60.0-TL-OUTD-480; ACWB-S-TRIO-60.0-TL-OUTD-480;
ACWB-SX-TRIO-60.0-TL-OUTD-480;

TRIO-20.0-TL-OUTD-400; TRIO-20.0-TL-OUTD-S2-400;
TRIO-20.0-TL-OUTD-S2X-400; TRIO-20.0-TL-OUTD-S2F-400;
TRIO-20.0-TL-OUTD-S1J-400; TRIO-20.0-TL-OUTD-S2J-400;
TRIO-27.6-TL-OUTD-400; TRIO-27.6-TL-OUTD-S2-400;
TRIO-27.6-TL-OUTD-S2X-400; TRIO-27.6-TL-OUTD-S2F-400; TRIO-27.6-TL-OUTD-S1J-400; TRIO-27.6-TL-OUTD-S2J-400;
TRIO-27.6-TL-OUTD-400-W; TRIO-20.0-TL-OUTD-400-W;

UNO-2.0-I-OUTD; UNO-2.0-I-OUTD-S; UNO-2.0-I-OUTD-W; UNO-2.5-I-OUTD; UNO-2.5-I-OUTD-S; UNO-2.5-I-OUTD-W;

PVI-3.0-TL-OUTD; PVI-3.0-TL-OUTD-S; PVI-3.0-TL-OUTD-W;
PVI-3.6-TL-OUTD; PVI-3.6-TL-OUTD-S; PVI-3.6-TL-OUTD-W;
PVI-4.2-TL-OUTD; PVI-4.2-TL-OUTD-S; PVI-4.2-TL-OUTD-W;

PVI-3.8-I-OUTD-S; PVI-3.8-I-OUTD; SSWI-3.8-I-OUTD;
PVI-4.6-I-OUTD-S; PVI-4.6-I-OUTD; SSWI-4.6-I-OUTD;

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TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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PVI-5000-TL-OUTD; PVI-6000-TL-OUTD;
PVI-5000-TL-OUTD-S; PVI-6000-TL-OUTD-S;
PVI-5000-TL-OUTD-W; PVI-6000-TL-OUTD-W;

PVI-13.8-TL-OUTD; PVI-13.8-TL-OUTD-S;
PVI-13.8-TL-OUTD-FS; PVI-13.8-TL-OUTD-W;
PVI-11.0-TL-OUTD; PVI-11.0-TL-OUTD-S;
PVI-11.0-TL-OUTD-FS; PVI-11.0-TL-OUTD-W;
PVI-12.5-TL-OUTD; PVI-12.5-TL-OUTD-S;
PVI-12.5-TL-OUTD-FS; PVI-12.5-TL-OUTD-W;
PVI-10.0-TL-OUTD; PVI-10.0-TL-OUTD-S;
PVI-10.0-TL-OUTD-FS;
PVI-8.0-TL-OUTD; PVI-8.0-TL-OUTD-S; PVI-8.0-TL-OUTD-FS;
PVI-6.0-TL-OUTD; PVI-6.0-TL-OUTD-S; PVI-6.0-TL-OUTD-FS;

PVI-10.0-I-OUTD-400; PVI-10.0-I-OUTD-S-400;
PVI-12.0-I-OUTD-400; PVI-12.0-I-OUTD-S-400;
SSWI-10.0-I-OUTD-400;

UNO-DM-X.X-TL-PLUS-XYK-JVN-DIP
where X.X may be 6.0 or 5.0 or 4.6 or 4.0 or 3.3 or 3.0 or 2.0 or 1.2
where XYK may be X: "blank" or S; Y: "blank" or B or E; K: "blank"
where JVN may be J: "blank" or X; V: "blank" or G; N: "blank"
where DIP may be D: "blank" or Q; I: "blank" or U; P: "blank"

TRIO-TM-50.0-400;
TRIO-TM-50.0-400-POWER MODULE;
DCWB-SX2-TRIO-TM-50.0-400; DCWB-SX-TRIO-TM-50.0-400; DCWB-S-TRIO-TM-50.0-400; DCWB-TRIO-TM-50.0-400;
ACWB-SX-TRIO-TM-50.0-400; ACWB-TRIO-TM-50.0-400;

TRIO-TM-60.0-480;
TRIO-TM-60.0-480-POWER MODULE;
DCWB-SX2-TRIO-TM-60.0-480; DCWB-SX-TRIO-TM-60.0-480; DCWB-S-TRIO-TM-60.0-480; DCWB-TRIO-TM-60.0-480;
ACWB-SX-TRIO-TM-60.0-480; ACWB-TRIO-TM-60.0-480;

PVS-120-TL; PVS-100-TL;
PVS-120-TL-POWER MODULE; PVS-100-TL-POWER MODULE;
WB-SX2-PVS-100/120-TL; WB-SX-PVS-100/120-TL;
WB-SY2-PVS-120-TL; WB-SY-PVS-120-TL; WB-SX2-PVS-120-TL; WB-SX-PVS-120-TL;
WB-SY2-PVS-100-TL; WB-SY-PVS-100-TL; WB-SX2-PVS-100-TL; WB-SX-PVS-100-TL;

REACT2-BATT-5.0
REACT2-UNO-5.0-TL; REACT2-UNO-3.6-TL; REACT2-BATT

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PVS-175-TLX-WIRINGBOX-Opz.1 Opz.2 Opz.3 Opz.4 Opz.5 Opz.6 Opz.7
where:
TLX may be TL1 or TL2
WIRINGBOX may be WB-S or WB-S2 or WB-SX or WB-SX2
Opz.1 is I
Opz.2 is F
Opz.3 is A
Opz.4 may be Y or N
Opz.5 may be Y or N
Opz.6 may be S or M
Opz.7 may be Y or N;
PVS-175-TL-POWER-MODULE-1;
PVS-175-TL-POWER-MODULE-2;
WB-S-PVS-175-TL;
WB-S2-PVS-175-TL;
WB-SX-PVS-175-TL;
WB-SX2-PVS-175-TL;

PVS-60-TL; PVS-60-TL-S; PVS-60-TL-SX; PVS-60-TL-SX2; PVS-60-TL-SX-CN:
PVS-50-TL; PVS-50-TL-S; PVS-50-TL-SX; PVS-50-TL-SX2

PVI-X-Y-ZZ-U
where X may be 55.0 or 110.0 or 165.0 or 220.0 or 275.0 or 330.0
where Y may be "blank" or TL
where ZZ is the Country Code
where U may be "blank" or W

PVI-X-TL-ZZ-Y
where X may be 67.0 or 134.0 or 200.0 or 267.0 or 334.0 or 400.0
where ZZ is the Country Code
where Y may be "blank" or W

MSWI-55.0-IT; MSWI-110.0-IT; MSWI-165.0-IT

ULTRA-700.0-TL; ULTRA-1050.0-TL; ULTRA-1400.0-TL

PVI-X-OUTD-Y-ZZ & PVI-X-OUTD-ZZ-W
where X may be 12.5 or 10.0
where Y may be "blank" or S or DS or DSC or FS or FSC
where ZZ is the Country Code

PVS-33-TL-SX; PVS-33-TL-SY; PVS-33-TL-SI
PVS-30-TL-SX; PVS-30-TL-SY
PVS-20-TL-SX; PVS-20-TL-SY
PVS-20-TL-SXD

PVS-10-TL-SX; PVS-10-TL-SY
PVS-12.5-TL-SX; PVS-12.5-TL-SY
PVS-15-TL-SX; PVS-15-TL-SY

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Above stated products and types have been assessed during an inspection of the manufacturing plants.
Main assembly and quality control of these models is performed at manufacturing plants located within the European Union.
The following main production steps are taking place in the above listed plant:

- development
- assemblage
- measuring and testing

Remarks:

This certificate is valid until the next scheduled inspection or up to 12 months, at the discretion of TÜV Rheinland Group.

In detail, inspection of manufacturing process and used component's check have been performed in order to guarantee a constant quality level as used for type test for compliance to CEI 0-21, CEI 0-16, DIN-V-VDE 0126-1-1, EN 62109-1 and EN 62109-2 (where applicable) see detail in each product's test report.

(1) The other FIMER S.p.A.'s manufacturing locations are under a periodic factory surveillance programme which is documented in inspection report.

(2) The report of the factory inspection includes the requirements of GSE applicative rules about the manufacturing quality process and used materials. In detail: visit has been performed to each factory and inspection of manufacturing process and components' check have been performed in order to guarantee a constant quality level as used for type test for compliance to CEI 0-21 for LV connection and CEI 0-16 (or annex A70) for MV/HV connection.

(3) Factory Inspection has been based on a detailed description of inverter's manufacturing process and components supplied by Licence Holder to TUV Rheinland Group (as permitted by Delibera AEEG n. 84/2012/R/EEL and GSE's documents related to 4th and 5th conto energia.

(4) Manufactured under trademark license agreement by FIMER Group

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