

Factory Inspection Certificate

Registration No.: AK 60139989 0001

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Report No.: 28111587 036

License Holder:

POWER-ONE ITALY S.P.A.
Via S. Giorgio, 642 - 52028
Terranuova Bracciolini, Arezzo, Italy

Product: Grid Tied Inverter

Trademark: ABB

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;

Manufacturer⁽¹⁾:

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

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PVS-175-TLX-WIRINGBOX-Opz.1Opz.2Opz.3Opz.4Opz.5Opz.6C

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

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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-VDE 0126-1-1, EN 62109-1 and EN 62109-2 (where applicable) see detail in each product's test report.

(1) The other POWER-ONE ITALY 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 TÜV Rheinland Group (as permitted by Delibera AEEG n. 84/2012/R/EEL and GSE's documents related to 4th and 5th conto energia).

15.01.2019

Certification Body

M. Piva