Certificate Number: AZ 69021661 Page: 0001

TÜVRheinland®

CERTIFICATE OF SUITABILITY

Authorised marking: TUV021661E

This is to certify that TÜV Rheinland Australia Pty Ltd as accredited by JAS-ANZ in accordance with ISO/IEC Guide 65 has examined for compliance with certification standards, the electrical equipment described hereunder and authorises the certificate holder to affix the above mentioned mark to products of the same type; or the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled

CERTIFICATE HOLDER:

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

DESCRIPTION OF EQUIPMENT

Declared class: Non-declared

Product: Solar grid tied inverter

Trade Name / Manufacturer: POWER – ONE ITALY S.p.A.

Model Number: UNO-DM-X.X-TL-PLUS-XYK-JVN
Further Model Numbers info refer to Continuation Sheet 1-6.

Ratings: Ratings info refer to Continuation Sheet 1-6.

Standard: AS/NZS 4777.2:2015
IEC 62109-1:2010
IEC 62109-2:2011

Issue Date: 30/01/2017
Expiry Date: 30/01/2022

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

Billy Chu

JAS-ANZ

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Certificate Number: AZ 69021661 Page: 0002

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CONTINUATION SHEET 1

Description of Equipment

Model Numbers:
UNO-DM-X.X-TL-PLUS-XYK-JVN can assume the following variants for difference in Output Power:
X.X can be "1.2", "2.0", "3.3", "4.0", "4.6", or "5.0".

XYK can assume a combination of the following variants:
X can be blank or "S" - unit equipped with a DC switch;
Y can be blank or "B" - unit equipped with the optionally assembled accessory board ZGN.V2P54 (WLAN BOARD), or
"E" - unit equipped with the optionally assembled accessory board namely:
ZGN.V2P54 (WLAN BOARD) and ZGN.V2P57 (ETHERNET BOARD);
K can only be blank.

JVN can assume a combination of the following variants:
J can be blank or "X" - unit equipped with the optionally assembled accessory board namely ZGN.V2P05 (UNO-DM-COM KIT);
V can be blank or "G" - unit with a cable gland instead of pluggable AC connector for AC side input access;
N can only be blank.

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CONTINUATION SHEET 2

Description of Equipment

Ratings:
For all models:
Rated Output: 230V, 50Hz, Single-phase, Class I, IP65;
Ambient temp.: -25°C to +60°C;
Overvoltage category: Mains - OVC III, PV - OVC II;
Nominal power factor > 0.995, (adjustable 0.1 - 1
Over/Under excited);
Absolute maximum DC input voltage (Vmax,abs): 600V.

For model UNO-DM-1.2:
Rated AC power (Pacr @ cosφ=1): 1200W;
Maximum apparent power (Smax): 1200VA;
Maximum AC output current (Iac,max): 5.5A;
Contributory fault current: 10A;
Number of independent MPPTs: 1;
Rated DC input power (Pdcr): 1500W;
Maximum DC input current (Idc max): 10A;
Maximum short circuit current (Isc max) for each
MPPT: 12.5A;
DC input voltage range (VMPPT) with parallel configuration
of MPPT at Pacr : 100...530V.

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Expiry Date: 30/01/2022

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CONTINUATION SHEET 3

Description of Equipment

For model UNO-DM-2.0:
Rated AC power (Pacr @ cosφ=1): 2000W;
Maximum apparent power (Smax): 2000VA;
Maximum AC output current (Iac,max): 10A;
Contributory fault current: 12A;
Number of independent MPPTs: 1;
Rated DC input power (Pdcr): 2500W;
Maximum DC input current (Idc max): 10A;
Maximum short circuit current (Isc max): 12.5A;
DC input voltage range (VMPPT) with parallel
configuration of MPPT at Pacr : 210...530V.

For model UNO-DM-3.3:
Rated AC power (Pacr @ cosφ=1): 3300W;
Maximum apparent power (Smax): 3300VA;
Maximum AC output current (Iac,max): 14.5A;
Contributory fault current: 16A;
Number of independent MPPTs: 2;
Rated DC input power (Pdcr): 3500W;
Maximum DC input current (Idc max)/for each MPPT: 20A/10A;
Maximum short circuit current (Isc max)
for each MPPT: 12.5A;
DC input voltage range (VMPPT) with parallel configuration
of MPPT at Pacr : 170...530V.

Issue Date: 30/01/2017

Expiry Date: 30/01/2022

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 4

Description of Equipment

For model UNO-DM-4.0:
Rated AC power (Pacr @ cosφ=1): 4000W;
Maximum apparent power (Smax): 4000VA;
Maximum AC output current (Iac,max): 17.2A;
Contributory fault current: 19A;
Number of independent MPPTs: 2;
Rated DC input power (Pdcr): 4250W;
Maximum DC input current (Idc max)/for each MPPT: 32A/16A;
Maximum short circuit current (Isc max) for each MPPT: 20A;
DC input voltage range (VMPPT) with parallel configuration
of MPPT at Pacr : 130...530V.

For model UNO-DM-4.6:
Rated AC power (Pacr @ cosφ=1): 4600W;
Maximum apparent power (Smax): 4600VA;
Maximum AC output current (Iac,max): 20A;
Contributory fault current: 22A;
Number of independent MPPTs: 2;
Rated DC input power (Pdcr): 4750W;
Maximum DC input current (Idc max)/for each MPPT: 32A/16A;
Maximum short circuit current (Isc max) for each MPPT: 20A;
DC input voltage range (VMPPT) with parallel configuration
of MPPT at Pacr : 150...530V.

Issue Date: 30/01/2017

Expiry Date: 30/01/2022

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 5

Description of Equipment

For model UNO-DM-5.0:
Rated AC power (Pacr @ cosφ=1): 5000W;
Maximum apparent power (Smax): 5000VA;
Maximum AC output current (Iac,max): 20A;
Contributory fault current: 24A;
Number of independent MPPTs: 2;
Rated DC input power (Pdcr): 5150W;
Maximum DC input current (Idc max)/for each MPPT: 38A/19A;
Maximum short circuit current (Isc max) for each MPPT: 22A;
DC input voltage range (VMPPT) with parallel configuration
of MPPT at Pacr : 145...530V.

Issue Date: 30/01/2017
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Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 6

(Modification 1)

Add additional Volt-Watt Response mode as per clause 6.3.2.2
of Standard: AS/NZS 4777.2:2015.

Issue Date: 20/03/2017

Expiry Date: 30/01/2022

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 7

(Modification 2)

Add new product variants:

UNO-DM-X.X-TL-PLUS-XYK-JVN-DIP
Letters DIP extend the models designation and designate the new models according to the following codification:
DIP can assume a combination of the following variants:
D = Blank or Q (suppressed display version);
I = Blank or U (CH1 ≠CH2, asymmetrical DC channels);
P = Blank or T*(with transmitter embedded according to Sunspec MLRSD).
* under development, currently not covered by this modification.

Issue Date: 27/02/2019
Expiry Date: 30/01/2022

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 8

(Modification 3)

1. Add Model Number UNO-DM-3.0-TL-PLUS-XYK-JVN-DIP
Rating:
Rated Output: 230 V, 50/60 Hz, Single-phase, Class I, IP65,
Ambient temp.: -25 to +60°C,
Overvoltage category: Mains - OVC III, PV -OVCII
Nominal power factor > 0.995,
(adjustable 0.1 – 1 Over/Under excited)
Absolute maximum DC input voltage (Vmax,abs): 600 V

Rated AC power (Pacr @ cosφ=1): 3000 W,
Rated apparent power (Smax): 3000 VA
Maximum AC output current (Iac,max): 14.5 A,
Contributory fault current: 16 A
Number of independent MPPTs: 1
Rated DC input power (Pdcr): 3300 W,
Max. DC input current(Idc max)/for each MPPT: 10A
(there is only 1 MPPT)
Maximum short circuit current (Isc max) for each MPPT:12.5A
DC input voltage range (VMPPT) with parallel configuration
of MPPT at Pacr : 320...530 V

2. For model UNO-DM-3.3-TL-PLUS-XYK-JVN-DIP Maximum Input Short Circuit Current (Isc max) changes from 12.5 A to 20 A

Issue Date: 15/02/2021
Expiry Date: 30/01/2022

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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