

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.

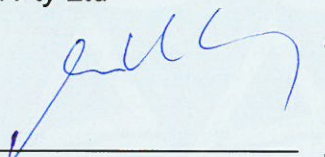
Ratings: Ratings info refer to Continuation Sheet 1-6.

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



Acc. No. Z2870404AA
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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);

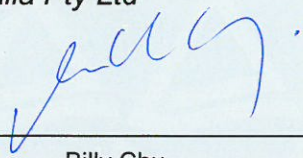
V can be blank or "G" - unit with a cable gland instead of pluggable AC connector for AC side input access;

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 ($V_{max,abs}$): 600V.

For model UNO-DM-1.2:

Rated AC power ($P_{acr} @ \cos\phi=1$): 1200W;

Maximum apparent power (S_{max}): 1200VA;

Maximum AC output current ($I_{ac,max}$): 5.5A;

Contributory fault current: 10A;

Number of independent MPPTs: 1;

Rated DC input power (P_{dcr}): 1500W;

Maximum DC input current ($I_{dc max}$): 10A;

Maximum short circuit current ($I_{sc max}$) for each

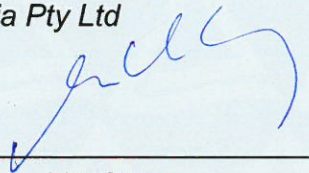
MPPT: 12.5A;

DC input voltage range (VMPPT) with parallel configuration
of MPPT at P_{acr} : 100...530V.

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CONTINUATION SHEET 3

Description of Equipment

For model UNO-DM-2.0:

Rated AC power (P_{acr} @ $\cos\phi=1$): 2000W;
Maximum apparent power (S_{max}): 2000VA;
Maximum AC output current ($I_{ac,max}$): 10A;
Contributory fault current: 12A;
Number of independent MPPTs: 1;
Rated DC input power (P_{dcr}): 2500W;
Maximum DC input current ($I_{dc,max}$): 10A;
Maximum short circuit current ($I_{sc,max}$): 12.5A;
DC input voltage range (VMPPT) with parallel configuration of MPPT at P_{acr} : 210...530V.

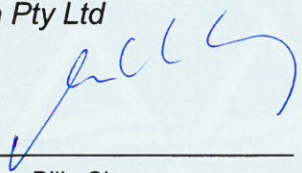
For model UNO-DM-3.3:

Rated AC power (P_{acr} @ $\cos\phi=1$): 3300W;
Maximum apparent power (S_{max}): 3300VA;
Maximum AC output current ($I_{ac,max}$): 14.5A;
Contributory fault current: 16A;
Number of independent MPPTs: 2;
Rated DC input power (P_{dcr}): 3500W;
Maximum DC input current ($I_{dc,max}$)/for each MPPT: 20A/10A;
Maximum short circuit current ($I_{sc,max}$)
for each MPPT: 12.5A;
DC input voltage range (VMPPT) with parallel configuration of MPPT at P_{acr} : 170...530V.

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CONTINUATION SHEET 4

Description of Equipment

For model UNO-DM-4.0:

Rated AC power (P_{acr} @ $\cos\phi=1$): 4000W;
Maximum apparent power (S_{max}): 4000VA;
Maximum AC output current ($I_{ac,max}$): 17.2A;
Contributory fault current: 19A;
Number of independent MPPTs: 2;
Rated DC input power (P_{dcr}): 4250W;
Maximum DC input current ($I_{dc,max}$)/for each MPPT: 32A/16A;
Maximum short circuit current ($I_{sc,max}$) for each MPPT: 20A;
DC input voltage range (VMPPT) with parallel configuration of MPPT at P_{acr} : 130...530V.

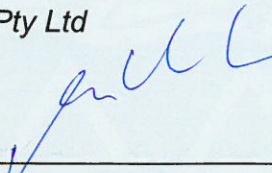
For model UNO-DM-4.6:

Rated AC power (P_{acr} @ $\cos\phi=1$): 4600W;
Maximum apparent power (S_{max}): 4600VA;
Maximum AC output current ($I_{ac,max}$): 20A;
Contributory fault current: 22A;
Number of independent MPPTs: 2;
Rated DC input power (P_{dcr}): 4750W;
Maximum DC input current ($I_{dc,max}$)/for each MPPT: 32A/16A;
Maximum short circuit current ($I_{sc,max}$) for each MPPT: 20A;
DC input voltage range (VMPPT) with parallel configuration of MPPT at P_{acr} : 150...530V.

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CONTINUATION SHEET 5

Description of Equipment

For model UNO-DM-5.0:

Rated AC power (P_{acr} @ $\cos\phi=1$): 5000W;

Maximum apparent power (S_{max}): 5000VA;

Maximum AC output current ($I_{ac,max}$): 20A;

Contributory fault current: 24A;

Number of independent MPPTs: 2;

Rated DC input power (P_{dcr}): 5150W;

Maximum DC input current ($I_{dc,max}$)/for each MPPT: 38A/19A;

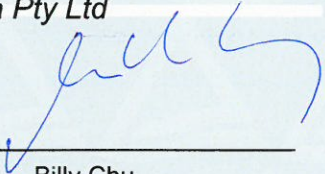
Maximum short circuit current ($I_{sc,max}$) for each MPPT: 22A;

DC input voltage range (VMPPT) with parallel configuration
of MPPT at P_{acr} : 145...530V.

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Certificate Number: AZ 69021661

Page: 0007



CERTIFICATE OF SUITABILITY

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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

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Brian Wong

TÜVRheinland



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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 \neq CH2, asymmetrical DC channels);

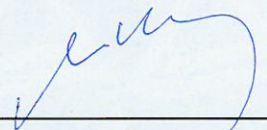
P = Blank or T*(with transmitter embedded according to Sunspec MLRSD).

* under development, currently not covered by this modification.

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www.jas-anz.org/register

Certificate Number: AZ 69021661

Page: 0009



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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,

Oversvoltage category: Mains - OVC III, PV -OVCII

Nominal power factor > 0.995,

(adjustable 0.1 – 1 Over/Under excited)

Absolute maximum DC input voltage ($V_{max,abs}$): 600 V

Rated AC power (P_{acr} @ $\cos\phi=1$): 3000 W,

Rated apparent power (S_{max}): 3000 VA

Maximum AC output current ($I_{ac,max}$): 14.5 A,

Contributory fault current: 16 A

Number of independent MPPTs: 1

Rated DC input power (P_{dcr}): 3300 W,

Max. DC input current ($I_{dc,max}$)/for each MPPT: 10A

(there is only 1 MPPT)

Maximum short circuit current ($I_{sc,max}$) for each MPPT: 12.5A

DC input voltage range (V_{MPPT}) with parallel configuration

of MPPT at P_{acr} : 320...530 V

2. For model UNO-DM-3.3-TL-PLUS-XYK-JVN-DIP Maximum Input

Short Circuit Current ($I_{sc,max}$) changes from 12.5 A to 20 A

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Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

A handwritten signature in blue ink, appearing to read 'Grant Li', positioned above a horizontal line.

Grant Li



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