

## 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.

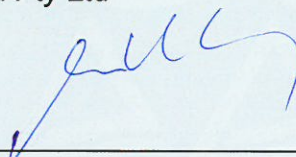
**Ratings:** Ratings info refer to Continuation Sheet 1-6.

**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);

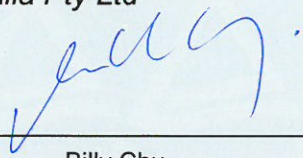
V can be blank or "G" - unit with a cable gland instead of pluggable AC connector for AC side input access;

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

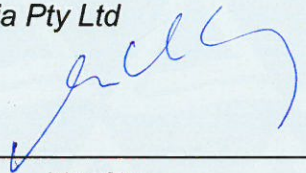
MPPT: 12.5A;

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.

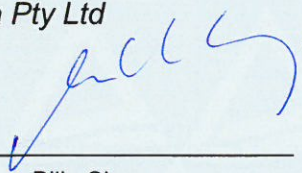
For model UNO-DM-3.3:

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.

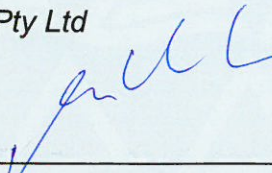
For model UNO-DM-4.6:

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;

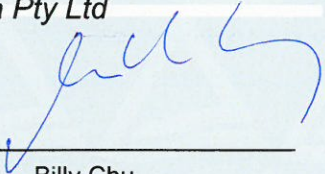
Maximum short circuit current ( $I_{sc,max}$ ) for each MPPT: 22A;

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

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