# CERTIFICATE OF SUITABILITY

Authorised marking: TUV-028502-E

*TÜV Rheinland Australia Pty Ltd "Electrical Product Safety Certification (EPSC) Scheme", accredited by JAS-ANZ in accordance with ISO/IEC 17065, has issued this certificate under JAS-ANZ accreditation. The electrical equipment described hereunder has been evaluated and complied with the standard(s) listed below in accordance with the scheme herein and met the minimum safety requirements contained in Australian Standard AS/NZS 3820 as of current. It is a requirement that all equipment supplied under this certificate shall be identical to the equipment as certified.*

**CERTIFICATE HOLDER:** Entelar Group Limited
19 Gabador Place, Mount Wellington,
1060 Auckland
New Zealand

**DESCRIPTION OF ELECTRICAL EQUIPMENT**

| | |
|---|---|
| **Declared class:** | Non-declared |
| **Product:** | SOLAR INVERTER |
| **Trade Name / Manufacturer:** | entelar energy |
| **Model Number:** | EESOLAR-10KTL-LC0 |
| **Ratings:** | Ratings refer to Continuation Sheet 1 for details |
| **Condition(s):** | N/A |
| **Standard:** | AS/NZS 4777.2:2020+A1<br>IEC 62109-2:2011<br>IEC 62109-1:2010 |
| **Issue Date:** | 09-07-2025 |
| **Expiry Date:** | 09-07-2030 |

*Signed for and on behalf of TÜV Rheinland Australia Pty Ltd*

John Wang



TÜV Rheinland Australia Pty Ltd
182 Dougharty Road, Heidelberg West, VIC 3081
Phone: +61 (3) 9450 1400
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www.tuv.com

JAS-ANZ
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Precisely Right.

# CERTIFICATE OF SUITABILITY

## CONTINUATION SHEET 1

Description of Equipment
Ratings:
For all models:
Protection: Class I, IP66, PD3
Operating Temp.: -25°C to 60°C (>45°C derating)
Overvoltage Category (OVC): III for AC side, II for DC side
Inverter Topology: Non-isolated
Firmware version: V100R023
PV input:
Vmax: 600Vdc
VMPP: 40V-560Vdc
Isc: 20/20/20A
Imax: 16/16/16A
AC output:
Rated output voltage: 220/230/240Vac (L+N+PE),
Rated output frequency: 50/60Hz
Rated output Apparent power: 10000 VA
Max. output Apparent power: 10000 VA
Rated output Power: 10000 W
Max. output Power: 10000 W
Rated output Current: 45.5A@220 V, 43.5A@230 V, 41.7A@240 V
Max. output current: 45.5A
Power factor: 0.8 leading to 0.8 lagging

**Issue Date:** 09-07-2025
**Expiry Date:** 09-07-2030

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# CERTIFICATE OF SUITABILITY

## CONTINUATION SHEET 2

Description of Equipment
Back-up Output
Rated Output Voltage: 220/230/240Vac
Rated Output Current: 45.5A@220 V, 43.5A@230 V, 41.7A@240 V
Rated Output Frequency: 50/60Hz
Rated Apparent Power: 10000VA
Battery:
Battery type: Li-ion
Battery Input voltage range: 350-600Vdc
Battery Max. Charge/Discharge current: 25/25Adc

**Issue Date:** 09-07-2025
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# CERTIFICATE OF APPROVAL

Authorised marking: TUV-027897-EA

CONTINUATION SHEET 4

(Modification 2)

Add alternative inverters:

Classified as:

Installed within power conditioning equipment (PCE), enclosed outdoor, suitable for installation exposed to sunlight as per AS/NZS 5033.
Switch arrangement: Ex9IRN40-50/06/PV2/4, 4 layers

Installed within Solar Inverter
Ithe Solar at 40°C: 48A, Ithe Solar at 60°C: 48A
Brand: Entelar Energy
Models: EESOLAR-10KTL-LC0
Size: 425mm×365mm×130mm (W x H x D)

Enclosure material: AL5052

Issue Date: 07/11/2024
Expiry Date: 02/04/2029

*Signed for and on behalf of TÜV Rheinland Australia Pty Ltd*

John Wang

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# SUPPLIER DECLARATION OF CONFORMITY (SDoC)

In accordance with ISO/IEC 17050-1:2004

**SDoC Identification Number[1]:** EGPV-EESOLAR-10KTL-LC0

## Issuer details

Name[2] (of New Zealand manufacturer or importer): Entelar Group Limited

Telephone: 0800 8353447 Opt 4

New Zealand Company No. (if applicable): 9429050709007

Email Address: entelarenergyhelpdesk@entelargroup.co.nz

Contact Address:

Entelar Group Limited
19 Gabador Place, Mount Wellington
1060 Auckland
New Zealand

## Medium Risk Article – Details[3] (Product name, type, rating, brand, model, batch numbers, and serial numbers, as applicable):

Product name: Solar Inverter Single phase 50Hz
Product series: EESOLAR-10KTL-LC0 (see attached list)

## The Medium Risk Article listed above, fully complies:

**With cited standard(s), as listed[4]:**

Standard number and issue year: AS/NZS 3820:2020

Edition / Amendment status: N/A

Standard title: Essential Safety Requirements for Electrical Equipment

AS/NZS ZZ modified Yes ☐ No ☐ N/A ■

Standard number and issue year:

Edition / Amendment status:

Standard title:

AS/NZS ZZ modified Yes ☐ No ☐ N/A ■

**OR Complies with the Conformity Cooperation Agreement (CCA)[5]** Yes ☐ No ■

**OR is registered on the EESS database & the declarer is registered as the responsible/affiliated supplier[6]** Yes ☐ No ■ **EESS Equipment #** _____

## Names and addresses of any Evaluating/Testing/Certification organisation or body used

Name(s): TUV Rheinland Australia Pty Ltd. Address(es): 182 Dougharty Road, Heidelberg West VIC 3081

Name(s): Address(es):

## Reference to relevant test reports/certification and the issue date that show how compliance is achieved

| Supporting document(s) used, to show how compliance with the declared standard(s) is achieved or CCA certification: | Report Certification or Document reference N°(s): | Issue dates(s): |
|---|---|---|
| Certificate: AS/NZS 4777.2:2020+A1, IEC 62109-2:2011, IEL 62109-1:2010 | AZ 69028502 | 09/07/2025 |

Reference to any management quality system involved: -

Additional information[7]: -

## Declaration (signed for and on behalf of):-

**Name and position as authorised by the issuer[8]:** Laura Dewar, Entelar Energy Lead

**Issuer Identification (as affixed to the article):**

entelar ENERGY

**Signature:**

**Date:** 10 July 2025

# SUPPLIER DECLARATION OF CONFORMITY (SDOC)

In accordance with ISO/IEC 17050-1:2004

| Technical Specification | EESOLAR-10KTL-LC0 |
|---|---|
| | Efficiency |
| Max. efficiency | 98.1% |
| European weighted efficiency | 97.5% |
| | Input (PV) |
| Recommended max. PV power [1] | 15,000 Wp |
| Max. input voltage | 600 V |
| Startup voltage | 50 V |
| MPPT operating voltage range | 40 ~ 560 V |
| Rated input voltage | 360 V |
| Max. input current per MPPT | 16 A |
| Max. short-circuit current | 20 A |
| Max. number of inputs | 3 |
| Number of MPP trackers | 3 |
| | Input (DC Battery) |
| Compatible battery | EESTORE Battery System 5kWh – 30kWh |
| Operating voltage range | 350 ~ 560 Vdc |
| Max. operating current | 25 A |
| Max. charge power | 10,000 W |
| Max. discharge power | 10,000 W |
| | Output (On Grid) |
| Grid connection | Single-phase |
| Rated output power | 10,000 W |
| Max. apparent power | 10,000 VA |
| Rated output voltage | 220 Vac / 230 Vac / 240 Vac, L / N + PE |
| Max. output current | 45.5 A |
| Rated AC grid frequency | 50 Hz/60 Hz |
| Adjustable power factor | 0.8 leading...0.8 lagging |
| Max. total harmonic distortion | ≤ 3% |
| Backup power output | Yes (via compatible Backup Box) |
| | Features & Protection |
| Anti-islanding protection | Yes |
| DC reverse polarity protection | Yes |
| Insulation monitoring | Yes |
| DC surge protection | Yes, compatible with TYPE II protection class according to EN/IEC 61643-11 |
| AC surge protection | Yes, compatible with TYPE II protection class according to EN/IEC 61643-11 |
| Residual current monitoring unit | Yes |
| AC overcurrent protection | Yes |
| AC short-circuit protection | Yes |
| AC overvoltage protection | Yes |
| Over-heat protection | Yes |
| Arc fault protection | Yes |
| Battery charging from grid | Yes |
| | General Data |
| Operating temperature range | –25°C to +60°C (-13 °F ~ 140 °F) |
| Relative operating humidity | 0%-100% RH |
| Operating altitude | 0-4,000 m (Derating above 2,000 m) |
| Cooling | Smart Air Cooling |
| Display | LED indicators; integrated WLAN + App |
| Communication | RS485, WLAN / Ethernet via EEDongleA-05 |
| Weight | 15 kg |
| Dimensions (W x H x D) (incl. mounting plate) | 425 mm x 376.5 mm x 150 mm |
| Degree of protection | IP66 |
| | Optimizer Compatibility |
| Compatible optimizer | SUN2000-450W-P2, SUN2000-600W-P |
| | Standards Compliance (More Available Upon Request) |
| Safety | RCM, IEC 62109-1&2, AS/NZS 60947.3:2015 |
| Grid connection standards | AS/NZS 4777.2:2020, AS/NZS 4777.2:2015 |

## Notes for completion

1. Every declaration of conformity should be uniquely identified.
2. The responsible issuer must be unequivocally specified and either be the NZ manufacturer or the importer (NZ).
3. The "Article" must be adequately described so that the declaration of conformity may uniquely be related to the declared article in question. For mass-produced-products, it is not necessary to give individual serial numbers. Where variants of an article are to be covered, these must be fully detailed.
4. The cited standard is the applicable specific safety standard exactly as it is cited in Schedule 4 of the Electricity (Safety) Regulations 2010 or AS/NZS 3820, at the date that the declaration is signed. Where compliance with the AS/NZS 3820 is claimed, a supporting document will be required that shows how each clause of the AS/NZS 3820 standard is complied with.
5. This is for products imported and offered for sale under the explicit control of the China "Conformity Cooperation Agreement" such product will be marked in accordance with that agreement and NZ suppliers of such product should obtain documentary evidence to support any claim that a product is covered by that agreement. Warning a product offered for sale that is marked in accordance with the CCA, that is not actually covered by the CCA is illegal and subject to a fixed Infringement Fee fine. No details of any cited safety standards are required on the declaration.
6. The Electrical Equipment Safety Scheme (EESS) registration can be checked at the following link - https://equipment.erac.gov.au/Registration/EquipmentSearch.aspx?atn=public . Consumers can just enter the EESS equipment number on the database to check the registration and registered supplier of that equipment. The product declared must exactly match the details listed on that database and the NZ declarer must be the named Responsible or Affiliated supplier registered for the specific product. No details of any cited safety standards are required on the declaration. (Note: If registered as previously described, completion of the SDoC is entirely voluntary, as Regulation 83A recognises EESS registration directly.)
7. Text should appear here only if any limitation on the validity of the declaration of conformity and/or any additional information are given.
8. Full name and function of the signing person(s) authorised by the issuer's management to sign on its behalf should be given. The number of signatures, or equivalent, included will be the minimum determined by the legal form of the issuer's organisation.

## Continuing validity of the declaration of conformity

The issuer of the declaration of conformity shall have adequate procedures in place to ensure the continued conformity of the declared medium risk article, as delivered or accepted, with the stated requirements of the declaration of conformity.

The issuer of the declaration of conformity should have procedures in place to continually evaluate the validity of the declaration of conformity, in respect of the product declared, in the event of:-

a) Changes significantly affecting the article design or specification by the manufacturer? ; and/or

b) Being aware of relevant information indicating that the article may no longer conform to the specified requirements?; and/or

c) Change of product manufacturer or structure of management of the product manufacturer?; and/or

d) Change of supply of any critical safety or protective components?; and/or

e) Changes to the safety standards cited in Regulations, for product imported / NZ manufactured, after the new citation take effect? (Note: This does not apply to equipment imported under the CCA or currently registered on EESS by the NZ supplier, where the continued validity is governed by other rules.)

## Additional information regarding the declaration

Although not required by the ISO/IEC 17050, "Issuer Identification" affixed to the article: this marking should identify the issuer of the SDoC and may be for example in the form of a NZ GST N°, NZ Company N°, or Unique NZ brand name or trademark, etc. Failure to mark a product with such unique identification may result in the issuer being held responsible for compliance of an article that may not have been supplied by the issuer, unless the issuer can prove otherwise! This is particularly relevant where the same or very similar model, may be imported by other NZ suppliers and is perhaps not compliant.

A copy of the SDoC and test report(s) (certification) and/or other supporting compliance documentation must be available, if the supporting compliance documentation is not available directly from issuer, the name and address of from where it can be obtained from, must be provided by any supplier within the New Zealand supply chain. (Note: A copy of the SDoC and supporting documentation must be available within 10 working days after being asked to do so by Energy Safety, also a copy of the SDoC (only) must be provided within 10 days of request by a purchaser or potential purchaser, of the article declared).

A person who sells or offers for sale, a declared medium risk article commits an offence, if at the time of sale or offer to sell, a valid declaration of conformity for the article has not been made, or the person cannot provide a copy of the declaration of conformity, along with the required supporting documentation, within the timeframe allowed. Penalties associated with a grade "A" offence are fines, not exceeding $10,000 for an individual or $50,000 for a body corporate (company) if successfully prosecuted, or a fixed infringement fee, of $1,000 for an individual or $3,000 for a body corporate (company).

See listings of the current regulatory definitions for electrical equipment deemed to be medium risk articles, on the Energy Safety website www.energysafety.govt.nz.

This form can be edited to increase any text box size, in order to insert more detail, than the current space allows, if required.

**This is an example ISO/IEC 17050-1 form for a recognised declaration of conformity; any other form complying with the requirements of ISO/IEC 17050-1:2004, may be used instead, for the purpose of Electricity Regulation 83**.

Nothing prevents this form being extended to act as an SDoC, for other regulatory purposes.

**This completed form remains with the issuer as part of the documentation required as evidence of compliance**
DO NOT submit a copy of this form to Energy Safety unless specifically requested to do so.

RADIO SPECTRUM MANAGEMENT

MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

# Supplier's Declaration of Conformity

Section 134 (1) (g) of the New Zealand Radiocommunications Act 1989

***Note | This completed form remains with the supplier as part of the documentation required for the "Compliance folder"***

## 1. Supplier details

| Name (of manufacturer, importer or authorised agent): | New Zealand physical address: |
|---|---|
| Entelar Group Ltd. | 19 Gabador Place, Mount Wellington, Auckland 1060, New Zealand |
| **New Zealand contact information:**<br>Telephone: +64 800 835 3447<br>Mobile:<br>Fax:<br>Email: support@entelargroup.co.nz | New Zealand postal address (if different): |
| (New Zealand) Company number or GST number: | ERAC Supplier Number: |
| 9429050709007 | E10442 |

## 2. Product details

| | | |
|---|---|---|
| Brand name: | Entelar Energy | |
| Model, lot, batch or serial number: | EESOLAR-10KTL-LC0 | |
| Description and function: | Solar Inverter | |
| If radio product: | Frequency or frequency range (MHz): 2412-2472MHZ | Radiated power e.i.r.p (dBW): 19.5dBm |
| Applicable standard title, number & edition: | CISPR 11:2015+A1:2016(Group 1), AS/NZS 4268:2017, AS/NZS 2772.2:2016 | |
| Test report number or other identifier: | ENS2402050001W00101R, ENS2402050001W00102R, 68.760.24.0126.01 | |

## 3. Declaration

I hereby declare that the product to which this declaration of conformity relates complies with the mentioned standard(s), and all products supplied under this Declaration will be identical to the sample identified in this Declaration.

| Signature of supplier/agent: | Print name: Laura Dewar |
|---|---|
| Date: 28/2/2024. | Position in organisation: Commercial & Logistics Lead |