SUPPLIER DECLARATION OF CONFORMITY (SDoC)

In accordance with ISO/IEC 17050-1:2004

SDoC Identification Number[1]: EGPV-EESOLAR-6/10KTL-M1

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 Three phase 50Hz
Product series: EESOLAR-6KTL-M1, EESOLAR-10KTL-M1 (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):	Address(es):
TUV Rheinland Australia Pty Ltd.	182 Dougharty Road, Heidelberg West VIC 3081

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 62109-1:2010 IEC 62109-2:2011	AZ 69027496	04/10/2023

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: 22 Nov 2024

Technical Specification	EESOLAR-6KTL-M1	EESOLAR-10KTL-M1
Efficiency		
Max. Efficiency	98.6%	98.6%
European Weighted Efficiency	97.7%	98.1%
Input (PV)		
Recommended Max. PV Power	9,000 W p	15,000 W p
Max. Input Voltage [1]	1,100 V	
Operating Voltage Range [2]	140 V ~ 980 V	
Start-up Voltage	200 V	
Rated Input Voltage	600 V	
Max. Input Current per MPPT Max. Input Current per MPPT	13.5 A	
Max. Short-circuit Current	19.5 A	
Number of MPP Trackers Number of MPP trackers	2	
Max. Number of Inputs	2	
Input (DC Battery)		
Compatible Battery	EESTORE Battery System 5kW h ~ 30kW h	
Max Number of Connected Battery	2	
Operating Voltage Range	600 V ~ 980 V	
Max Operating Current	16.7 A	
Max Charge Power	10,000 W	
Max Discharge Power	6,000 W	10,000 W
Output		
Grid Connection	Three-phase	
Rated Output Power	6,000 W	10,000 W
Rated AC Apparent Power	6,000 VA	10,000 VA
Max. Apparent Power	6,600 VA	11,000 VA
Rated Output Voltage	230 Vac / 400 Vac, 3W / N+PE	
Rated AC Grid Frequency	50 Hz / 60 Hz	
Max. Output Current	10.1 A	16.9 A
Adjustable Power Factor	0.8 leading ... 0.8 lagging	
Max. Total Harmonic Distortion	≤ 3 %	
Backup Power Output	Yes (via compatible Backup Box)	
Features & Protections		
Input-side Disconnection Device	Yes	
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	Yes	
AC Overcurrent Protection	Yes	
AC Short-circuit Protection	Yes	
AC Overvoltage Protection	Yes	
Arc Fault Protection	Yes	
Ripple Receiver Control	Yes	
Integrated PID Recovery [3]	Yes	
Battery Reverse Charging from Grid	Yes	
General Data		
Operating Temperature Range	-25 ~ + 60 °C (-13 °F ~ 140 °F)	
Relative Operating humidity	0 % RH ~100 % RH	
Operating Altitude	0 ~ 4,000 m (13,123 ft.) (Derating above 2000m)	
Cooling	Natural convection	
Display	LED Indicators; Integrated WLAN + App	
Communication	RS 485; WLAN/Fast ethernet via EEDongleA-05;	
Weight (incl. Mounting Bracket)	17 kg (37.5 lb)	
Dimension (incl. Mounting Bracket)	525 x 470 x 146.5 mm (20.7 x 18.5 x 5.8 inch)	
Degree of Protection	IP65	
Country of Manufacture	China	
Optimizer Compatibility		
Compatible Optimizer	SUN2000-600W-P/SUN2000-450-P2[4]	
Standard Compliance (more available upon request)		
Safety	RCM, IEC 62109-1, IEC 62109-2, 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.

Certificate Number: AZ 69027496 Page: 0001

CERTIFICATE OF SUITABILITY

Authorised marking: TUV-027496-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 found to be electrically safe at the time of certification 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. The certificate holder may affix the above mentioned authorised marking on the product.

CERTIFICATE HOLDER:

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

DESCRIPTION OF EQUIPMENT

Declared class:	Non-declared
Product:	Solar Inverter
Trade Name / Manufacturer:	Entelar Group
Model Number:	EESOLAR-6KTL-M1 , EESOLAR-10KTL-M1
Ratings:	Ratings refer to Continuation Sheet 1 for details
Standard:	AS/NZS 4777.2:2020+A1 IEC 62109-2:2011 IEC 62109-1:2010
Issue Date:	04/10/2023
Expiry Date:	17/05/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

Grant Li

www.jas-anz.org\register

TUV Rheinland Australia Pty Ltd
182 Dougharty Road, Heidelberg West VIC 3081
Phone: +61 (3) 9450 1400
Email: certification@au.tuv.com
Website: www.au.tuv.com

Certificate Number: AZ 69027496 Page: 0002

CERTIFICATE OF SUITABILITY

Authorised marking: TUV-027496-E

CONTINUATION SHEET 1

Description of Equipment

Ratings for EESOLAR-6KTL-M1, EESOLAR-10KTL-M1:
Operating Temp.: -25°C to 60°C(>45°C derating)
Protection: Class I, IP65, PD3,
Overvoltage Category (OVC): PV input: II; Grid Output: III

Input:
VDC max: 1100Vdc, VDC MPPT: 140-980Vdc,
IDC max: 13.5A/13.5A, Isc: 19.5/19.5A

Battery Input:
Maximum charging/discharging current: 16.7A
VDC Range: 600-1100Vdc,
Battery type: Li-ion

AC Output:
Output voltage/frequency: 220/380, 230/400Va.c. 3L/N/PE., 50/60Hz,
Power factor: 0.8 leading and 0.8 lagging
Max/Rated Output Power: 6000W, 10000W,
Rated Output Apparent Power: 6000VA, 10000VA
Max Output Apparent Power: 6600VA, 11000VA
Rated Output Current: 14.5A@400V, 8.7A@400V
Max Output Current: 16.9A. 10.1A

Issue Date: 04/10/2023
Expiry Date: 17/05/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

Grant Li

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TUV Rheinland Australia Pty Ltd
182 Dougharty Road, Heidelberg West VIC 3081
Phone: +61 (3) 9450 1400
Email: certification@au.tuv.com
Website: www.au.tuv.com

Certificate Number: AZ 69025800 Page: 0092

CERTIFICATE OF APPROVAL

Authorised marking: TUV-025800-EA

CONTINUATION SHEET 91

(Modification 41)

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: GHX5-32P, 3 layers
Installed within Solar inverter
Ithe Solar at 40°C: 27A, Ithe Solar at 60°C: 27A
Brand: entelar energy
Models: EESOLAR-6KTL-M1, EESOLAR-10KTL-M1

Size: 525mm×470mm×166mm (W x H x D)
Enclosure material: Aluminum

Issue Date: 07/09/2023
Expiry Date: 16/02/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

Grant Li

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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): Entelar Group Ltd.	New Zealand physical address: 19 Gabador Place, Mount Wellington, Auckland 1060, New Zealand
New Zealand contact information: Telephone: +64 800 835 3447 Mobile: Fax: Email: support@entelargroup.co.nz	New Zealand postal address (if different):
(New Zealand) Company number or GST number: 9429050709007	ERAC Supplier Number: E10442

2. Product details

Brand name:	Entelar Group	
Model, lot, batch or serial number:	EESOLAR-6KTL-M1, EESOLAR-10KTL-M1	
Description and function:	Solar Inverter	
If radio product:	Frequency or frequency range (MHz): 2412-2472MHz	Radiated power e.i.r.p (dBW): 18.72dBm
Applicable standard title, number & edition:	CISPR 11:2015+A1:2016 +AMD2:2019(Group1), AS/NZS 4268:2017, AS/NZS 2772.2:2016	
Test report number or other identifier:	CE2307WDG0052, SZEM230700444401, SZEM23070044402	

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: Carey McGregor
Date: 20/7/23	Position in organisation: Head of Product & Distribution