SUPPLIER DECLARATION OF CONFORMITY (SDoC)

In accordance with ISO/IEC 17050-1:2004

SDoC Identification Number[1]: EGPV-EESOLAR-29.9/40KTL-M3

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-29.9KTL-M3 (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):
Conformity Certification Services Pty Ltd.	Level 1, Suite 10 & 11, 4-10 Selems Parade

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, IEC 62109-1:2010, IEC 62109-2:2011	EESS-230892-0	04/11/2024

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-29.9KTL-M3	EESOLAR-40KTL-M3
Efficiency		
Max. Efficiency	98.7%	
European Efficiency	98.4%	
Input		
Max. Input Voltage [1]	1,100 V	
Max. Current per MPPT	27 A	
Max. Short Circuit Current per MPPT	40 A	
Start Voltage	200 V	
MPPT Operating Voltage Range [2]	200 V ~ 1000 V	
Rated Input Voltage	600 V	
Number of Inputs	8	
Number of MPP Trackers	4	
Output		
Rated AC Active Power	29,900 W	40,000 W
Max. AC Apparent Power	29,900 VA	44,000 VA
Rated Output Voltage	230 Vac / 400 Vac, 3W/N+PE	
Rated AC Grid Frequency	50 Hz / 60 Hz	
Rated Output Current	43.2 A	57.8 A
Max. Output Current	43.2 A	63.8 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD	
Max. Total Harmonic Distortion	< 3%	
Protection		
Input-side Disconnection Device	Yes	
Anti-islanding Protection	Yes	
AC Overcurrent Protection	Yes	
DC Reverse-polarity Protection	Yes	
PV-array String Fault Monitoring	Yes	
DC Surge Arrester	Yes	
AC Surge Arrester	Yes	
DC Insulation Resistance Detection	Yes	
Residual Current Monitoring Unit	Yes	
Arc Fault Protection	Yes	
Ripple Receiver Control	Yes	
Integrated PID Recovery [3]	Yes	
Communication		
Display	LED Indicators, Integrated WLAN + APP	
RS485	Yes	
Communication	WLAN/Fast Ethernet via Smart EEDongleA-05 (Optional) Fast Ethernet/4G via EELogger3000 (Optional)	
General Data		
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)	
Weight (with Mounting Plate)	43 kg (94.8 lb)	
Noise Level	< 46 dB	
Operating Temperature Range	-25 ~ + 60 °C (-13 °F ~ 140 °F)	
Cooling Method	Natural Convection	
Max. Operating Altitude	0 ~ 4,000 m (13,123 ft.)	
Relative Humidity	0 % RH ~ 100% RH	
DC Connector	Staubli MC4	
AC Connector	Waterproof Connector + OT/DT Terminal	
Protection Degree	IP 66	
Topology	Transformerless	
Nighttime Power Consumption	≤5.5W	
Optimizer Compatibility		
Compatible Optimizer	SUN2000-600W-P/SUN2000-450-P2, MERC-1100/1300W-P[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.

Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification
ABN 74 161 881 401
Level 1, Suite 10 & 11, 4-10 Selems Parade
Revesby, NSW 2212 AUSTRALIA
Email: info@eessconformity.com

22 January 2024
Entelar Group Ltd.
19 Gabador Place
Mount Wellington, Auckland 1060
NEW ZEALAND

Attention: Lydia Zhong, Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

CERTIFICATION OF ELECTRICAL EQUIPMENT

It is our pleasure to issue you with the enclosed Certificate of Suitability EESS-230892-0.

Please check and ensure the details are correct in accordance with your application.

EESS Conformity Certification will upload the required certificate information to the National Database as detailed in the Australian / New Zealand Electrical Equipment Safety System (EESS), Equipment Safety Rules Appendix C.

We remind you that the Regulatory Compliance Mark (RCM) must be used in accordance with its conditions of use as set out in the latest edition of AS/NZS 4417.1.

This certification is based on type testing, modification to the certified product in any way must be notified to EESS Conformity Certification for endorsement. Details of the modification must be advised by completing and submitting the application via our Online Application System (OAS) with your login credentials.

Any change to the name or address of the certificate holder must be notified to EESS Conformity Certification within one calendar month. Changes may be advised by completing and submitting the application via our Online Application System (OAS) with your login credentials.

An application for the transfer of Certificate from the existing Certificate Holder to another/new Certificate Holder may be made to EESS Conformity Certification by completing and submitting the application via our Online Application System (OAS) with your login credentials.

Finally, please use the QR code below to take our two-minute survey and comment on our service.

Should you have any further queries, please contact us.

Yours sincerely,

Lloyd Knipe
Managing Director
Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification

We'd love to know what you thought of our service. Please scan to fill in a brief survey or visit www.eessconformity.com

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Adding Value to Evaluation

CERTIFIED

Certificate No.: EESS-230892-0

CERTIFICATE OF SUITABILITY

Certificate Holder:	Entelar Group Ltd. 19 Gabador Place Mount Wellington, Auckland 1060 NEW ZEALAND
Regulatory Definition:	Inverter System for CEC Listing
Product Type:	SOLAR INVERTER
Risk Level:	1
Trade Name(s):	entelar energy
Model No(s):	EESOLAR-29.9KTL-M3, EESOLAR-40KTL-M3
Ratings:	PV Input: 1100Vdc Max, MPPT I/P range 200-1000Vdc, 27/27Ax4dc, OVCII. Output: 3N 400/ 480V~ 50/60Hz Class I IP66, PF 0.8 lead to lag, OVCIII. Rated Apparent Power: 29.9/40kVA, 60degC max. Firmware Version: V100R001 *Refer to Certificate Addendum for specific ratings.*
Standard(s):	IEC 62109-1:2010 (Reference Test Report 085-233200701-000 Part 1) IEC 62109-2:2011 Reference Test Report 085-233200701-000 Part 2) AS/NZS 4777.2:2020 (Reference Test Report PVAU2312WDG0211-1)
Condition(s):	To be installed by Licensed Electrician only in accordance with AS/NZS Wiring Rules, CEC guidelines and the Manufacturer's Installation Manual. This Certification does not consider other installation requirements or the additional Clean Energy Council (CEC) requirements for Grid Connect inverters or power conversion equipment (PCE).
Required Marking:	The Regulatory Compliance Mark (RCM) in accordance with its conditions of use as set out in the latest edition of AS/NZS 4417.1
Date of Issue:	22 January 2024
Valid Until:	21 January 2029

For and on behalf of
Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification

PO Box 359, Revesby North, NSW 2212, Australia
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CERTIFIED

Certificate No.: EESS-230892-0

CERTIFICATE OF SUITABILITY

Conformity Certification Services Pty Ltd as accredited by JAS-ANZ under ISO/IEC 17065 certifies that the Electrical Equipment as described on this certificate complies with the minimum essential safety requirements for which the application has been made. This certificate meets the requirements of the Queensland Government Recognised External Certification Scheme (RECS). Certification is based on type testing and within our terms and conditions.

For and on behalf of
Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification

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Certificate No.: EESS-230892-0

CERTIFICATE ADDENDUM

Description	Model	
	EESOLAR-29.9KTL-M3	EESOLAR-40KTL-M3
DC Input		
Max Input V	1100Vdc	
Max Input Current	27Adc x 4	
Max Short circuit current	40Adc x 4	
MPPT Voltage range	200-1000Vdc	
Max number of Inputs	8	
Number of MPPTs	4	
AC output		
Rated Output Power kW	29.9	40
Rated Apparent Power kVA	29.9	40
Rated Output V~ 3W + N + PE	400/480	380/400/440/480
Rated Output Current~	43.2A @400V 36A @ 480V	60.8A @380V, 57.8A @ 400V, 52.5A @440V, 48.1A @480V
Output V~ Frequency	50/60Hz	
Power factor	0.8 lead to lag	
Operating Temperature	-25degC to 60degC Max	
IP	IP66	
Firmware Version	V100R001	

For and on behalf of
Conformity Certification Services Pty Ltd
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Certificate Number: AZ 69027378 Page: 0004

CERTIFICATE OF APPROVAL

Authorised marking: TUV-027378-EA

CONTINUATION SHEET 3

(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: NDG3-32/20/8/1/02/M/1000/1100, 8 layers, installed within Solar inverter
Ithe Solar at 40°C: 40A, Ithe Solar at 60°C: 40A
Brand: entelar energy
Models: EESOLAR-40KTL-M3, EESOLAR-29.9KTL-M3
Size: 640mm×530mm×270mm (W x H x D)
Enclosure material: Aluminum

Issue Date: 20/10/2023
Expiry Date: 24/08/2028

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

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:

2. Product details

Brand name:	Entelar Group	
Model, lot, batch or serial number:	EESOLAR-29.9KTL-M3, EESOLAR-40KTL-M3, EESOLAR-50KTL-M3	
Description and function:	Solar Inverter	
If radio product:	Frequency or frequency range (MHz): 2412-2472MHz	Radiated power e.i.r.p (dBW): 19.08dBm
Applicable standard title, number & edition:	CISPR 11:2015+A1:2016 (Group1), AS/NZS 4268:2017, AS/NZS 2772.2:2016	
Test report number or other identifier:	68.760.23.0649.01, 4790925279-1, 4790925279-2	

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