CERTIFICATE OF SUITABILITY

Authorised marking: TUV-028505-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 / entelar energy

Manufacturer:

Model Number: EESOLAR-20KTL-MB0

Ratings: Ratings refer to Continuation Sheet 1 to 2for details

Condition(s): N/A

Standard: AS/NZS 4777.2:2020+A1

IEC 62109-2:2011 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

JAS-ANZ



TÜV Rheinland Australia Pty Ltd
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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:V200R023

PV input: Vmax:1100Vdc

VMPP:200V-1000Vdc

Isc:40/40A Imax:30/30A AC output:

Rated output voltage:220/380, 230/400, 240/415, 3(N)~+PE

Rated output frequency:50/60Hz Rated output Apparent power:20000 VA

Max. output Apparent power:20000 VA Rated output Power:20000 W Max. output Power:22000 W

Rated output Current:30.4A (220/380V) / 28.9A (230/400V) /27.8A(240/415V) Max. output current:33.6A (220/380V) / 31.9A (230/400V) / 30.8A(240/415V)

Power factor: 0.8 leading to 0.8 lagging

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

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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JAS-ANZ



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Website: www.au.tuv.com
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CERTIFICATE OF SUITABILITY

CONTINUATION SHEET 2

Description of Equipment

Back-up Output

Rated Output Voltage: 220/380, 230/400, 240/415Vac

Rated Output Current: 30.4A (220/380V) / 28.9A (230/400V) /27.8A(240/415V)

Rated Output Frequency:50/60Hz Rated Apparent Power:20000VA

Battery:

Battery type: Li-ion

Battery Input voltage range:600-980Vdc

Battery Max. Charge/Discharge current:26.25 /26.25Adc

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

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

John Wang

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Certificate Number:

AZ 69025885

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CERTIFICATE OF APPROVAL

Authorised marking: TUV-025885-EA

CONTINUATION SHEET 27

(Modification 10)

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: XBHP+3410/2, 4 layers

Installed within Solar Inverter

Ithe Solar at 40°C: 40A, Ithe Solar at 60°C: 40A

Brand: Entelar Energy

Model: EESOLAR-20KTL-MB0

Size: 546mm×460mm×228mm (W x H x D)

Enclosure material: Al 5052

Issue Date: 07/11/2024

Expiry Date: 23/03/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

John Wang

JAS-ANZ

www.jas-anz.org\register

SUPPLIER DECLARATION OF CONFORMITY (SDoC)

In accordance with ISO/IEC 17050-1:2004

SDoC Identification Number¹: EGPV-EESOLAR-20KTL-MB0					
Issuer details					
Name ² (of New Zealand manufacturer or importer):	Contact Address:				
Entelar Group Limited	Entelar Group Limited 19 Gabador Place, Mount Wellington				
Telephone: 0800 8353447 Opt 4	1060 Auckland				
New Zealand Company No. (if applicable): 9429050709007	New Zealand				
Email Address: entelarenergyhelpdesk@entelargroup.co.nz	Z				
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-20KTL-MB0 (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	Standard number and issue year:				
Edition / Amendment status: N/A	Edition / Amendment status:				
Standard title:	Standard title:				
Essential Safety Requirements for Electrical Equipment					
AS/NZS ZZ modified Yes □ No □ N/A ■	AS/NZS ZZ modified Yes □ No □ N/A ■				
OR Complies with the Conformity Cooperation Agreement (CCA) ⁵ 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 Issue dates(s): reference N°(s):				
Certificate: AS/NZS 4777.2:2020+A1, IEC 62109- 2:2011, IEC 62109-1:2010	AZ 69028505 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®:	Signature:				
Laura Dewar, Entelar Energy Lead					
Issuer Identification (as affixed to the article):	Ju.				
• entelar	Data				
ENERGY	Date:				
	10 July 2025				

SUPPLIER DECLARATION OF CONFORMITY (SDOC) In accordance with ISO/IEC 17050-1:2004

Technical Specification	EESOLAR-20KTL-MB0		
	Efficiency		
Max. efficiency	98.4%		
uropean weighted efficiency	98.1%		
B	DC Input		
Recommended max. PV power	30,000 Wp		
Max. input voltage ¹ Max. input current per MPPT	1,100 V 30 A (two strings) /20 A (single string)		
Max. short-circuit current	40 A		
Start-up voltage	200 V		
MPPT operating voltage range ²	200 V ~ 1,000 V		
Full-load MPPT voltage range	480 V ~ 800 V		
Rated input voltage	600 V		
Max. number of inputs	4		
Number of MPP trackers	Ž		
	Smart String Energy Storage System Terminal		
Compatible Smart String ESS	EESTORE Battery System 5kWh – 15kWh		
Number of terminals	2		
Max. charging power	21 kW (Single string) /25 kW (Two strings)		
Max. discharge power	22.0 kW		
Max. operating current	26.25 A (per string)		
Operating voltage range	600 V ~ 980 V		
	Output		
Dated output names	20,000 W		
Rated output power Max. apparent power	20,000 W 22,000 VA		
Max. active power (cosφ = 1)	22,000 VA 22,000 W		
Rated output voltage	220 Vac / 380 Vac, 230 Vac / 400 Vac, 240 Vac / 415 Vac; 3 W / N + PE		
nated output voltage	30.4 A /380 Vac		
H	28.9 A / 400 Vac		
Rated output current	27.8 A /415 Vac		
-	33.6 A / 380 Vac		
	31.9 A /400 Vac		
Max. output current	30.8 A / 415 Vac		
Rated AC grid frequency	50 Hz /60 Hz		
Adjustable power factor	0.8 leading - 0.8 lagging		
Max. total harmonic distortion	≤ 3%		
	Feature & Protection		
Overvoltage category	PV II /AC III		
Input-side disconnection device	Yes		
Anti-islanding protection	Yes		
AC over-current protection	Yes		
DC reverse-polarity protection	Yes		
DC surge protection	TYPEII		
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11		
DC insulation resistance detection	Yes		
Residual current monitoring unit Arc fault protection	Yes Yes		
nic iauli protection	General Data		
Operating temperature recen			
Operating temperature range	-25 °C ~ +60 °C (-13 °F ~ 140 °F)		
Relative humidity	0 % RH ~ 100 % RH		
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2,000 m)		
Cooling	Smart-air cooling		
Display	LED indicators, Integrated WLAN + Univers APP		
Communication	RS485; WLAN / Ethernet via EEDongleA-05		
Weight	21 kg		
Dimensions (W x H x D)	546 x 460 x 241.5 mm		
Protection level	IP66		
Max. number of paralleled unit (with Smart String ESS)	3		
	Optimizer Compatibility		
Compatible optimizer	SUN2000-450W-P2, SUN2000-600W-P, MERC-1100W-P, MERC-1300W-P		
	Standards Compliance (More Available Upon Request)		
Safety	RCM, IEC 62109-182, AS/NZS 60947.3:2025		
001017	11014, 100 02100 102, MO/1420 00047.0.2020		
Grid connection standards	AS/NZS 4777.2:2020, AS/NZS 4777.2:2015		

Supplier Declaration of Conformity (SDoC)

In accordance with ISO/IEC 17050-1:2004

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 $\frac{1}{2}$
- 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 <u>listings of the current regulatory definitions for electrical equipment deemed to be medium risk articles</u>, on the Energy Safety website <u>www.energysafety.govt.nz</u>.

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.

SUPPLIER DECLARATION OF CONFORMITY (SDoC)

In accordance with ISO/IEC 17050-1:2004

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**



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"

Name (of manufacturer, importer or authorised agent): Entelar Group Ltd.		New Zealand physical address: 19 Gabador Place, Mount Wellingtion, Auckland 1060, New Zealand New Zealand postal address (if different):		
New Zealand contact information:				
Telephone: +64 800 835 3447				
Mobile:				
Fax:				
Email: support@entelargroup	p.co.nz			
(New Zealand) Company number or GST number:		ERAC Supplier Num	ERAC Supplier Number:	
9429050709007		E10442	E10442	
Product details				
rand name:	Entelar Energy			
lodel, lot, batch or serial number:	EESOLAR-20KTL-MB0			
escription and function:	Solar Inverter			
radio product:	Frequency or frequency range (MHz): 2400-2483.5MHZ		Radiated power e.i.r.p (dBW): 16.29dBm	
pplicable standard title, number & edition:	CISPR 11:2015+A1:2016(Group 1), AS/NZS 4268:2017, AS/NZS 2772.2:2016			
est report number or other identifier:	240223014SZN-001, 4791192519-1, 4791192519-2			

Signature of supplier/agent:	h.	Print name: Laura Dewar
Date: 28/c2/2024		Position in organisation: Commercial & Logistics Lead