



ELECTRICAL SAFETY CERTIFICATE

Electricity (Licensing) Regulations 1991, Regulation 52B

This certificate warrants that the electrical installing work described below is safe and complies with the Electricity (Licensing) Regulations 1991.

This Electrical Safety Certificate is the certificate of compliance referred to in Regulation 52B of the Electricity (Licensing) Regulations 1991. This regulation requires that the electrical contractor/authorised electrician completing electrical installing work must, with 28 days of completing the work, provide a certificate of compliance in respect to the work to the person for whom the work was carried out.

Installation Details

Owner/Occupier Name Andrew Werczyk (0447711572)

Meter No. 0530203438

82 Safety Bay Road Shoalwater 6169

METER_POSITION: Upstairs

Alteration/Addition

Address

Date of Completion 17/09/2021

Related Notice of Completion E1009682

Details of work completed (indicate a number/rating where relevant)

Solar PV installation

Details of RCD Protection

All the socket outlet and lighting final subcircuits of the installation are protected by at least two RCDs?

Yes

If NO, what circuits are not protected:

Details of any defects observed (alterations and additions only)

I certify that the electrical installing work	Name	STUART CARR			
that is subject of this certificate has	Licence No.	EW137372			
been completed, checked and tested and, at the time of testing, met the	Details of electrical contractor				
requirements of the Electricity	Licence No.	EC11654			
(Licensing) Regulations 1991 and is	Business Name	KOALA SOLAR			
safe.	Business Address	1/5 ERCEG ROAD YANGEBUP WA 6164			
	Phone No.	+61426805552, (08) 9456 4763			
Name of the Control o	Facsimile No.	0488278688 Matt			
	Email Address	koalasolarwa@gmail.com			
Date 20/09/2021					

¹ Authorised pursuant to Regulation 52B(5) of the Electricity (Licensing) Regulations 1991

Sonnenschein SOLAR, SOLAR BLOCK, A600 SOLAR, PowerCycle Operating Instruction Stationary valve-regulated lead-acid batteries





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•	Nominal	VO	(age	u,

Nominal capacity C_n = C_m or C_m

Nominal discharge current L = L or L

· Final discharge voltage U, · Nominal temperature T.

: 2.0 V x number of cells

: 100 h or 120 h discharge (see type plate on cells/blocks and technical data in these instructions)

 $I_{m} = C_{m} / 100 \text{ h or } I_{m} = C_{m} / 120 \text{ h}$

; see technical data in these instructions

Battery type :	umber of cells/blocks	
Assembly by: G	NB order no.;	date:
Commissioned by:		date:
Security signs attached by:		date:



- Observe these instructions and keep them located near the battery for future reference
- Work on the battery should be carried out by qualified personnel only.



Do not smoke.

Do not use any naked flame or other sources of ignition. Risk of explosion and fire,



While working on batteries wear protective eye-glasses and clothing.



Observe the accident prevention rules as well as EN 50272-2/IEC 62485-2, EN 50110-1.



- Any acid splashes on the skin or in the eyes must be flushed with plenty of clean water immediately. Then seek for medical assistance.
- Spillages on clothing should be rinsed out with waterl



- Warning: Risk of fire, explosion or burns. Do not disassemble, heat above 60 °C, or incinerate. Avoid short circuits.
- Avoid electrostatic charges and discharges/sparksl



Electrolyte is very corrosive. In normal working conditions the contact with the electolyte is impossible. If the cell/block container is damaged do not touch the exposed electrolyte because it is corrosive.



- Blocks/cells are very heavy! Make sure they are installed securely! Only use suitable means of transport!
- Block/cell containers are sensitive to mechanical damage. Handle with care!



Do not lift or pull up blocks/cells on the poles.



Cautioni Metal parts of the battery are always alive, therefore do not place items or tools on the battery.



Keep children away from batteries.

Non-compliance with operating instructions, installations or repairs made with other than original accessories and spare parts or with accessories and spare parts not recommended by the battery manufacturer or repairs made without authorization (e. g. opening of valves) render the warranty vold.



Spent batteries have to be collected and recycled separately from normal household wastes (EWC 160601). The handling of spent batteries is described in the EU Battery Directive (2006/66/EC) and their national transitions (UK: HS Regulation 1994 No. 232, Ireland: Statory Instrument No. 73/2000). Contact your supplier to agree upon the recollection and recycling of your spent batteries or contact a local and authorized Waste Management Company.

not require topping-up water. Pressure valves are used for sealing and can not be opened without destruction.

The commissioning should take place as soon as possible after receipt of the battery, if this is not possible, advises acc. to item 6. shall be taken into account.

Stationary valve regulated lead acid batteries do Check all cells/blocks for mechanical damage, correct polarity and firmly seated connectors. Apply the following torques for screw connec-

G-M5	G-M6	A	F-M8	M-M8-45°	
5 ± 1 Nm	6 ± 1 Nm	8 ± 1 Nm	20 ± 1 Nm	8 ± 1 Nm	

Rubber covers shall be fitted to both ends of the connector cables (pole covers) before installation.

Control of insulation resistance: New batteries: > 1M Ω

Used batteries: > 100 Ω/Volt.

Connect the battery with the correct polarity to the charger (pos. pole to pos. terminal). The charger must not be switched on during this process, and the load must not be connected. Switch on charger and start charging following item 2.2.

2. Operation

For the installation and operation of stationary batteries EN 50272-2/IEC 82485-2 is mandatory. Battery installation should be made such that temperature differences between individual cells/ blocks do not exceed 3 degrees Celsius (Kelvin).

Methods for influencing the charging voltage of individual cells or block batteries within a string e.g. as a part of a battery management system (BMS) shall only be used in consultation with "GNB Industrial Power".

2.1 Discharge

Discharge must not be continued below the voltage recommended for the discharge time. Deeper discharges must not be carried out unle specifically agreed with the manufacturer. Re-charge immediately following complete or partial discharge (special features see 2.4 and 2.5).

2.2 Charging

All charging must be carried out acc. to DIN 41773 (IU-characteristic).

Recommended charge voltages for cyclical application: See fig. 1 and item 2.8.

According to the charging equipment, specification and characteristics alternating currents flow through the battery superimposing onto the direct current during charge operation.

Alternating currents and the reaction from the loads may lead to an additional temperature increase of the battery, and strain the electrodes with possible damages (see 2.5), which can shorten the battery life.

2.3 Maintaining the full charge (float charge) Devices complying with the stipulations under DIN 41773 must be used. They are to be set so that the average cell voltage is 2.30 Vpc ± 1% (within temperature range 15 to 35 °C).

2.4 Operating in uncontrolled partial state of

Solar batteries have to be operated also at states of charge less than 100% due to sea-sonal or other conditions, for instance summer: 80 to 100% state of charge, winter: down to 20% state of charge. Therefore, depending on the state of charge an equalizing charge must be carried out at least every 3 months.

en







Unit 1, 5 Erceg Road Yangebup WA 6164 info@koalagroupwa.com.au www.koalasolar.com.au 08 9456 4763 ABN: 50 603 553 233 EC 11654

Tax Invoice

Bill To:

Andrew Werczyk

andrew_werczyk@hotmail.com

82 Safety Bay Rd Shoalwater, WA, 6169

0447 711 572

Invoice No:

4427

Date:

17/09/2021

Terms: Due Date: NET 0 17/09/2021

Code	Description	Quantity	Rate	Amoun
Fronius 5kW Symo	Supply and Install 6.4kW Solar System	1	\$10,814.80	\$10,814.8
	1x 5kW Fronius Symo5.0-3M Three Phase Inverter			
	16x 400W SunPower Maxeon 3 Solar Panels			
	Clenergy Rail and Tin Mounting Brackets			
	Warranties			
	Fronius: Five Plus Five Years (After online registration of inverters)			
	Sunpower: 25 Year Product & Linear Power Output Warranty			
	Clenergy: 10 Year Warranty			
	Koala Solar Workmanship: 10 Year Warranty			
Extras	Tilt Brackets	1	\$150.00	\$150.0
Discount	Discount	1	-\$250.00	-\$250.0
Less Rebate 6.4kW	Less Government Rebate 6.4kW	1	-\$3,264.80	-\$3,264.80
			Parts Subtotal	\$7,450.0

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Payment Details

Full Payment required on the day of installation.

- Bank Transfer

ANZ Bank

BSB: 016 353 Account: 224474483

- Cash
- Cheque
- Credit Card (1.75% Surcharge)



\$7,450.00		
\$974.07		
\$7,450.00		
\$7,450.00		

Balance Due

\$0.00



Registration Certificate

Fronius International GmbH hereby confirms the extension of the warranty for the following product:

Symo 5.0-3-M

Article number: 4,210,034

Serial number: 32121719

Fronius Warranty Plus: 16.09.2026

Fronius Warranty: 16.09.2031

DETAILED, COUNTRY-SPECIFIC WARRANTY TERMS AND CONDITIONS ARE AVAILABLE CNLINE: WWW.FRONIUS.COM/SOLAR/WARRANTY TO MAKE A CLAIM UNDER THE FRONIUS MANUFACTURER'S WARRANTY YOU WILL NEED TO PROVIDE YOUR WARRANTY TERMS AND CONDITIONS, YOUR WARRANTY CERTIFICATE AND, WHERE APPLICABLE, PROOF OF PAYMENT FOR ANY EXTENSION FEES PAID. WHEN DEVICES OR COMPONENTS ARE REPLACED, THE REMAINING WARRANTY PERIOD IS TRANSFERRED TO THE REPLACEMENT DEVICE OR REPLACEMENT COMPONENT. THIS IS AUTOMATICALLY REGISTERED AT FRONIUS. NO NEW CERTIFICATE IS ISSUED. IF YOU CLAIM THE RIGHT TO WITHDRAW, THIS CERTIFICATE WILL NO LONGER BE VALID.

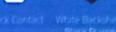
Ing Martin Hackl

Head of Division Solar Energy

SUNPOWER | MAXEON

Fundamentally different, and better









SunPower Maxeon Solar Cell Technology

- Proven technology across 3.5 billion cells shipped
- Most efficient commercialized solar technology¹
- Only solar cell with a solid-metal foundation, providing patented protection from breakage and corrosion



sunpower.maxeon.com

MAXEON 3

POWER RANGE: 390-400 W | EFFICIENCY: Up to 22.6%

Part of the record-setting SunPower Maxeon product line, the SunPower Maxeon 3 solar panel offers homeowners the highest efficiency available in the market today, maximising long-term energy production, as well as savings potential per available space.¹

SunPower Maxeon panels are world-renowned for their energy production and savings advantages that combine unmatched efficiency and reliability with an industry-leading warranty and an estimated 40-year useful life.^{23,4}

Maximum Lifetime Energy and Savings

The SunPower Maxeon 3 solar panel is designed to deliver 35% more energy in the same space over 25 years in real-world conditions such as partial shade and high temperatures.^{5,6,7}

A Better Product. A Better Warranty.

The 25-year SunPower Complete Confidence Panel Warranty is backed by testing and field data from more than 30 million SunPower Maxeon panels deployed—and a demonstrated warranty return rate of .005%.8



- Year 1 Minimum Warranted Power Output
- 98.0%
- Maximum Annual Degradation

- 0.25%
- Year 25 Warranted Power Output
- 92.0%

Leadership in Sustainable Manufacturing

SunPower Maxeon panels—and the facilities in which they are produced—raise the bar for environmental and social responsibility. Included below are highlights of the certifications and recognition received by some of our products and manufacturing sites.

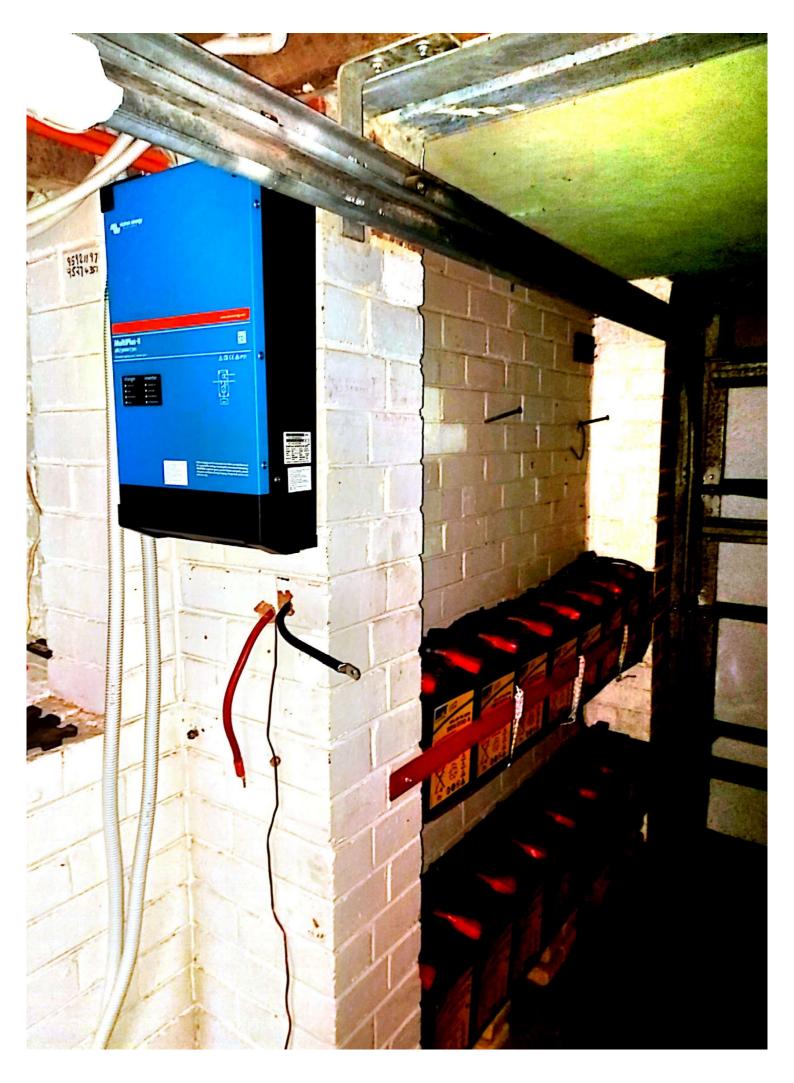


Declare.









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