



# ELECTRICAL CERTIFICATE OF COMPLIANCE & ELECTRICAL SAFETY CERTIFICATE

REFERENCE/CERTIFICATE ID NO.:

This form has been designed to be used by licensed electrical workers to certify that installations or Part installations under **Part 1** or **Part 2** of AS/NZS 3000 are safe to be connected to the **specified** system of electrical supply.

Location Details:

Contact Details:  
(Name and address)

Name of Electrical worker:

Registration/Practising licence number:

Phone & email:

Name and registration number of person(s) supervised:

## Certificate of Compliance

Type of work:

Addition

Alteration

New work

The prescribed electrical work is:

Low risk

General

High-risk (Specify):

Means of compliance:

Part 1 of AS/NZS 3000

Part 2 of AS/NZS 3000

Additional Standards or electrical code of practice were required:

No

Yes (specify):

Date or range of dates that prescribed electrical work undertaken:

Contains fittings that are safe to connect to a power supply?

Yes

No

Specify type of supply system:

The installation has an earthing system that is correctly rated (where applicable)

Yes

No

Parts of the installation to which this certificate relates that are safe to connect to a power supply?

All

Parts (specify)

The work relies on manufacturers instructions:

Yes

No

If yes – identify the instruction manual including name, date and version. Also attach a copy of manufacturer’s instructions to this certificate. (Or provide reference to readily accessible electronic format, eg Internet link.)

Identify:

Link:

The work has been done in accordance with a certified design:

Yes

No

If yes – identify the certified design including name, date and version. Also attach a copy of the certified design to this certificate. (Or provide reference to readily accessible electronic format, eg Internet link.)

Identify:

Link:

The work relies on a Supplier Declaration of Conformity (SDoC):

Yes

No

If yes - identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate. (Or provide reference to readily accessible electronic format, eg Internet link.)

Identify:

Link:

The installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010

No

Yes

Description of Work:

Test Results (provide values)

Polarity (Independent earth):	
Insulation resistance:	Ohms
Earth Continuity:	Ohms
Bonding:	Ohms
Fault Loop impedance	Ohms
Other (specify):	

By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.

Certifier’s signature:

Date:

## Electrical Safety Certificate

By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.

Certifier’s name:

Registration/Practising licence number:

Certifier’s signature:

Certificate Issue Date:

Connection Date:

CUSTOMER COPY – THIS IS AN IMPORTANT DOCUMENT AND SHOULD BE RETAINED FOR A MINIMUM OF 7 YEARS

# solarcity PV array and battery commissioning sheet

**Address of installation** \_\_\_\_\_

**COC Reference/Certificate ID Number** \_\_\_\_\_

**Date of Testing** \_\_\_\_\_

**SC number** \_\_\_\_\_ **EMU ID** \_\_\_\_\_

Number of PV modules in string 1 \_\_\_\_\_

Number of PV modules in string 2 (if applicable) \_\_\_\_\_

Number of DC optimisers (if used) \_\_\_\_\_

### Continuity

Earth continuity 1 – Earth busbar to earth rod (MEN link removed) \_\_\_\_\_  $\Omega$  (<0.5)

Earth continuity 2 – Main earth conductor to array frame \_\_\_\_\_  $\Omega$  (<0.5)

### Polarity check and PV open circuit voltage

	Polarity	Voltage (V)
String 1		
String 2 (if applicable)		
PV array at switch disconnecter		

### Insulation resistance measurements

Array positive to earth \_\_\_\_\_  $M\Omega$

Array negative to earth \_\_\_\_\_  $M\Omega$

System voltage ( $V_{oc\ stc}$ $\times 1.25$ )	Test voltage	Minimum insulation resistance, $M\Omega$
<120	250	0.5
120-500	500	1
>500	1000	1

*Table 1: Minimum values of insulation resistance*

### System Operation

PV operating voltage \_\_\_\_\_ V

PV operating current – string 1 \_\_\_\_\_ A

PV operating current – string 2 (if applicable) \_\_\_\_\_ A

PV array switch-disconnector operating correctly under load YES / NO

Time of day \_\_\_\_\_

Sunlight/irradiance at time of testing SUNNY / CLOUDY – BRIGHT / CLOUDY – DARK

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### Battery setup check

Confirm that normal house loads are not supplied during backup mode? YES/NO  
Confirm backup loads are supplied during backup mode? YES/NO

### Terminations and CT installation

All terminations in SolarZero switchboard checked? YES/NO  
All terminations inside cabinet checked? YES/NO  
Confirmed correct orientation of EZ Meter Mains CT?<sup>1</sup> YES/NO

### Commissioning connectivity

EMU serial number supplied to solarcity? YES/NO  
Engineering support confirmed system online? YES/NO

### System locked off for inspection

D.C. energy sources locked off for inspection?<sup>2</sup> YES/NO  
Battery BMS is turned off?<sup>3</sup> YES/NO  
EMU left powered on and connected to internet<sup>4</sup> YES/NO

**Name of Installer** \_\_\_\_\_

**Signature of Installer** \_\_\_\_\_

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<sup>1</sup> EZ Meter Mains CT should be in the correct orientation (arrow points from HOUSE -> GRID), CT should be around same phase as the solar is connected to, CT should be on the grid side of ALL loads on the ICP (please call solarcity if this is not possible). CT wires can be extended to a maximum of 5m (3m cable supplied).

<sup>2</sup> All switches and MCBs in the DC DB switchbox located inside the solarZero cabinet should be isolated and locked off. All switches in the AC DB switchbox should be left on so the system can be monitored remotely by solarcity.

<sup>3</sup> White ring around button is confirmed as being off – not illuminated (button is slightly depressed when in the ON position).

<sup>4</sup> All switches in the AC DB switchbox in the solarZero cabinet should be left on so the system can be monitored remotely by solarcity.