



Product: AC Powerwall, Model #: 1092170, 2012170 and 3012170

Manufacturers Declaration of Conformity

Tesla, Inc. certify and declare under their sole responsibility that the above-referenced product(s), is in conformity with the following specifications applied:

G99 Issue 1 – Amendment 8

Engineering Recommendation G99 Issue 1 - Amendment 8, 01 September 2021.
Requirements for the connection of generation equipment in parallel with
public distribution networks on or after 27 April 2019

Products must be installed and operated with reference to the instructions in the Product Manual

The following Notified Body: Intertek Testing Services NA Inc, 3933 US Route 11 Cortland, NY 13045 USA, has issued a positive Statement of Opinion based on test report number 103852302CRT-001a



Viraj Andrabadu

Sr. Manager, Compliance Engineering

9/12/2022 (mm/dd/yyyy)

Date



Form A2-3: Compliance Verification Report for Type A Inverter Connected Power Generating Modules

This form should be used by the **Manufacturer** to demonstrate and declare compliance with the requirements of EREC G99. The form can be used in a variety of ways as detailed below:

1. To obtain Fully Type Tested status (≤ 50 kW)

The **Manufacturer** can use this form to obtain **Fully Type Tested** status for a **Power Generating Module** by registering this completed form with the Energy Networks Association (ENA) Type Test Verification Report Register. Tests 1 – 15 must all be completed and compliant for the **Power Generating Module** to be classified as **Fully Type Tested**.

2. To obtain Type Tested status for a product

This form can be used by the **Manufacturer** to obtain **Type Tested** status for a product which is used in a **Power Generating Module** by registering this form with the relevant parts completed with the Energy Networks Association (ENA) Type Test Verification Report Register.

Where the **Manufacturer** is seeking to obtain **Type Tested** status for an **Interface Protection** device the appropriate section of Form A2-4 should be used.

3. One-off Installation

This form can be used by the **Manufacturer** or **Installer** to confirm that the **Power Generating Module** has been tested to satisfy all or part of the requirements of this EREC G99. This form shall be submitted to the **DNO** as part of the application.

A combination of (2) and (3) can be used as required, together with Form A2-4 where compliance of the **Interface Protection** is to be demonstrated on site.

Note:

Within this Form A2-3 the term **Power Park Module** will be used but its meaning can be interpreted within Form A2-3 to mean **Power Park Module, Generating Unit or Inverter** as appropriate for the context. However, note that compliance shall be demonstrated at the **Power Park Module** level.

If the **Power Generating Module** is **Fully Type Tested** and registered with the Energy Networks Association (ENA) Type Test Verification Report Register, the Installation Document (Form A3-1 or A3-2) should include the **Manufacturer's** reference number (the system reference), and this form does not need to be submitted.

Where the **Power Generating Module** is not registered with the ENA Type Test Verification Report Register or is not **Fully Type Tested** this form (all or in parts as applicable) needs to be completed and provided to the **DNO**, to confirm that the **Power Generating Module** has been tested to satisfy all or part of the requirements of this EREC G99.

PGM technology		Inverter with Battery Storage	
Manufacturer name		Tesla, Inc.	
Address		3500 Deer Creek, Palo Alto, CA 94304	
Tel	(650) 339-5597	Web site	www.tesla.com
E mail	vandrabadukurundu@tesla.com		
Registered Capacity		5 KW	
Energy storage capacity for Electricity Storage devices		13.5 kWh	

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Palo Alto, California, 94304, U.S.A.



There are four options for Testing: (1) **Fully Type Tested** (≤ 50 kW), (2) **Type Tested** product, (3) one-off installation, (4) tested on site at time of commissioning. The check box below indicates which tests in this Form have been completed for each of the options. With the exception of **Fully Type Tested PGMs** tests may be carried out at the time of commissioning (Form A4). **Type Tested** status is suitable for devices > 50 kW where the power quality aspects need consideration on a site-by-site basis in accordance with EREC G5 and EREC P28. Insert Document reference(s) for **Manufacturers' Information**

Tested option:	1. Fully Type Tested	2. Type Tested product	3. One-off Manufacturers' Info.	4. Tested on Site at time of Commissioning
0. Fully Type Tested - all tests detailed below completed and evidence attached to this submission	YES	N/A	N/A	N/A
1. Operating Range	N/A	N/A	N/A	N/A
2. PQ – Harmonics		N/A	N/A	N/A
3. PQ – Voltage Fluctuation and Flicker		N/A	N/A	N/A
4. PQ – DC Injection (Power Park Modules only)		N/A	N/A	N/A
5. Power Factor (PF)		N/A	N/A	N/A
6. Frequency protection trip and ride through tests		N/A	N/A	N/A
7. Voltage protection trip and ride through tests		N/A	N/A	N/A
8. Protection – Loss of Mains Test, Vector Shift and RoCoF Stability Test		N/A	N/A	N/A
9. LFSM-O Test		N/A	N/A	N/A
10. Protection – Reconnection Timer		N/A	N/A	N/A
11. Fault Level Contribution		N/A	N/A	N/A


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 Insert Document reference(s) for **Manufacturers' Information**

Tested option:	1. Fully Type Tested	2. Type Tested product	3. One-off Manufacturers' Info.	4. Tested on Site at time of Commissioning
12. Self-monitoring Solid State Switch		N/A	N/A	N/A
13. Wiring functional tests if required by para 15.2.1 (attach relevant schedule of tests)		N/A	N/A	N/A
14. Logic Interface (input port)		N/A	N/A	N/A
15. Cyber security		N/A	N/A	N/A

Manufacturer compliance declaration. - I certify that all products supplied by the company with the above **Type Tested Manufacturer's** reference number will be manufactured and tested to ensure that they perform as stated in this document, prior to shipment to site and that no site **Modifications** are required to ensure that the product meets all the requirements of EREC G99.

Signed		On behalf of	Tesla, Inc.
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Note that testing can be done by the **Manufacturer** of an individual component or by an external test house.

Where parts of the testing are carried out by persons or organisations other than the **Manufacturer** then that person or organisation shall keep copies of all test records and results supplied to them to verify that the testing has been carried out by people with sufficient technical competency to carry out the tests.



A2-3 Compliance Verification Report –Tests for Type A Inverter Connected Power Generating Modules – test record

1. Operating Range: Tests should be carried with the **Power Generating Module** operating at **Registered Capacity** and connected to a suitable test supply or grid simulation set. The power supplied by the primary source shall be kept stable within $\pm 5\%$ of the apparent power value set for the entire duration of each test sequence.

Frequency, voltage and **Active Power** measurements at the output terminals of the **Power Generating Module** shall be recorded every second. The tests will verify that the **Power Generating Module** can operate within the required ranges for the specified period of time.

The **Interface Protection** shall be disabled during the tests.

In case of a PV **Power Park Module** the PV primary source may be replaced by a DC source.

In case of a full converter **Power Park Module** (e.g. wind) the primary source and the prime mover **Inverter**/rectifier may be replaced by a DC source.

Pass or failure of the test should be indicated in the fields below (right hand side), for example with the statement "Pass", "No disconnection occurs", etc. Graphical evidence is preferred.

Note that the value of voltage stated in brackets assumes a **LV** connection. This should be adjusted for **HV** as required.

Test 1 Voltage = 85% of nominal (195.5 V), Frequency = 47 Hz, Power Factor = 1, Period of test 20 s	Measure Voltage: 195.56V Measured Frequency: 47.001Hz Measured Power Factor:0.99 Time period: 20 sec
Test 2 Voltage = 85% of nominal (195.5 V), Frequency = 47.5 Hz, Power Factor = 1, Period of test 90 minutes	Measured Voltage: 195.65V Measured Frequency: 47.50Hz Measured Power Factor: 0.99 Time period: 90 minutes
Test 3 Voltage = 110% of nominal (253 V)., Frequency = 51.5 Hz, Power Factor = 1, Period of test 90 minutes	Measured Voltage: 252.96V Measured Frequency: 51.50 Hz Measured Power Factor: 0.99 Time period: 90 minutes
Test 4 Voltage = 110% of nominal (253 V), Frequency = 52.0 Hz, Power Factor = 1, Period of test 15 minutes	Measured Voltage: 253.07V Measured Frequency: 52.01Hz Measured Power Factor: 0.99 Time period: 15 minutes
Test 5 Voltage = 100% of nominal (230 V), Frequency = 50.0 Hz, Power Factor = 1, Period of test = 90 minutes	Measured Voltage: 230.06V Measured Frequency: 50.00Hz Measured Power Factor: 0.99 Time period: 90 minutes



<p>Test 6 RoCoF withstand</p> <p>Confirm that the Power Generating Module is capable of staying connected to the Distribution Network and operate at rates of change of frequency up to 1 Hzs⁻¹ as measured over a period of 500 ms. Note that this is not expected to be demonstrated on site.</p>	<p>Test Frequency Ramp: +1 Hz/s</p> <p>Test Duration: 0.5 sec, Confirm No Trip: No Trip</p> <p>Test Frequency Ramp: -1 Hz/s</p> <p>Test Duration: 0.5 sec, Confirm No Trip: No Trip</p>
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2. Power Quality – Harmonics:

For **Power Generating Modules** of **Registered Capacity** of less than 75 A per phase (ie 50 kW) the test requirements are specified in Annex A.7.1.5. These tests should be carried out as specified in BS EN 61000-3-12, and measurements for the 2nd – 13th harmonics should be provided. The results need to comply with the limits of Table 2 of BS EN 61000-3-12 for single phase equipment and Table 3 of BS EN 61000-3-12 for three phase equipment. For three phase **Power Generating Modules**, measurements for all phases should be provided.

For **Power Generating Modules** of **Registered Capacity** of greater than 75 A per phase (ie 50 kW) the installation shall be designed in accordance with EREC G5.

The rating of the **Power Generating Module** (per phase) should be provided below, and the Total Harmonic Distortion (THD) and Partial Weighted Harmonic Distortion (PWHd) should be provided at the bottom of this section.

Power Generating Module tested to BS EN 61000-3-12

Power Generating Module rating per phase (rpp)				5		kVA	Harmonic % = Measured Value (A) x 23/rating per phase (kVA)	
Single or three phase measurements (for single phase measurements, only complete L1 columns below).				1 Phase				
Harmonic	At 45-55% of Registered Capacity						Limit in BS EN 61000-3-12	
	Measured Value (MV) in Amps			Measured Value (MV) in %				
	L1	L2	L3	L1	L2	L3	1 phase	3 phase
2	0.004	--	--	0.017	--	--	8%	8%
3	0.164	--	--	0.652	--	--	21.6%	Not stated
4	0.029	--	--	0.114	--	--	4%	4%
5	0.080	--	--	0.319	--	--	10.7%	10.7%
6	0.024	--	--	0.095	--	--	2.67%	2.67%
7	0.234	--	--	0.929	--	--	7.2%	7.2%
8	0.006	--	--	0.025	--	--	2%	2%

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9	0.145	--	--	0.575	--	--	3.8%	Not stated
10	0.003	--	--	0.010	--	--	1.6%	1.6%
11	0.066	--	--	0.261	--	--	3.1%	3.1%
12	0.002	--	--	0.009	--	--	1.33%	1.33%
13	0.106	--	--	0.420	--	--	2%	2%
THD ¹	-	--	--	1.635	--	--	23%	13%
PWHD ²	-	--	--	2.440	--	--	23%	22%
Harmonic	At 100% of Registered Capacity						Limit in BS EN 61000-3-12	
	Measured value (MV) in Amps			Measured value (MV) in %				
	L1	L2	L3	L1	L2	L3	1 phase	3 phase
2	0.013	--	--	0.053	--	--	8%	8%
3	0.259	--	--	1.025	--	--	21.6%	Not stated
4	0.042	--	--	0.165	--	--	4%	4%
5	0.308	--	--	1.223	--	--	10.7%	10.7%
6	0.032	--	--	0.127	--	--	2.67%	2.67%
7	0.247	--	--	0.979	--	--	7.2%	7.2%
8	0.010	--	--	0.041	--	--	2%	2%
9	0.185	--	--	0.735	--	--	3.8%	Not stated
10	0.005	--	--	0.021	--	--	1.6%	1.6%
11	0.162	--	--	0.641	--	--	3.1%	3.1%
12	0.003	--	--	0.010	--	--	1.33%	.33%
13	0.166	--	--	0.659	--	--	2%	2%
THD ³	1.635	--	--	2.578	--	--	23%	13%
PWHD ⁴	2.440	--	--	4.940	--	--	23%	22%

¹ THD = Total Harmonic Distortion

² PWHD = Partial Weighted Harmonic Distortion

³ THD = Total Harmonic Distortion

⁴ PWHD = Partial Weighted Harmonic Distortion



3. Power Quality – Voltage fluctuations and Flicker:

For **Power Generating Modules** of **Registered Capacity** of less than 75 A per phase (ie 50 kW) these tests should be undertaken in accordance with Annex A.7.1.4.3. Results should be normalised to a standard source impedance, or if this results in figures above the limits set in BS EN 61000-3-11 to a suitable Maximum Impedance.

For **Power Generating Modules** of **Registered Capacity** of greater than 75 A per phase (ie 50 kW) the installation shall be designed in accordance with EREC P28.

The standard test impedance is 0.4 Ω for a single phase **Power Generating Module** (and for a two phase unit in a three phase system) and 0.24 Ω for a three phase **Power Generating Module** (and for a two phase unit in a split phase system). Please ensure that both test and standard impedance are completed on this form. If the test impedance (or the measured impedance) is different to the standard impedance, it must be normalised to the standard impedance as follows (where the **Power Factor** of the generation output is 0.98 or above):

$d \text{ max normalised value} = (\text{Standard impedance} / \text{Measured impedance}) \times \text{Measured value}.$

Where the **Power Factor** of the output is under 0.98 then the X to R ratio of the test impedance should be close to that of the standard impedance.

The stopping test should be a trip from full load operation.

The duration of these tests needs to comply with the particular requirements set out in the testing notes for the technology under test.

The test date and location must be declared.

Test start date		12 Sep 2022		Test end date			12 Sep 2022	
Test location		Tesla, Inc: 47400 Kato Rd Fremont CA USA						
	Starting			Stopping			Running	
	d max	d c	d(t)	d max	d c	d(t)	P st	P lt 2 hours
Measured Values at test impedance	1.01 %	0.23%	0%	1.01%	0.23%	0%	0.13	0.11
Normalised to standard impedance	-	-	-	-	-	-	-	-
Normalised to required maximum impedance	-	-	-	-	-	-	-	-
Limits set under BS EN 61000-3-11	4%	3.3%	3.3%	4%	3.3%	3.3%	1.0	0.65



Test Impedance	R	0.4	Ω	XI	0.27	Ω
Standard Impedance	R	0.24 * 0.4 ^	Ω	XI	0.15 * 0.25 ^	Ω
Maximum Impedance	R	8.08	Ω	XI	5.05	Ω

* Applies to three phase and split single phase **Power Generating Modules**. Delete as appropriate.

^ Applies to single phase **Power Generating Module** and **Power Generating Modules** using two phases on a three phase system. Delete as appropriate.

4. Power quality – DC injection: The tests should be carried out on a single **Generating Unit**. Tests are to be carried out at three defined power levels $\pm 5\%$. At 230 V a 50 kW three phase **Inverter** has a current output of 217 A so DC limit is 543 mA. These tests should be undertaken in accordance with Annex A.7.1.4.4.

The % DC injection (“as % of rated AC current” below) is calculated as follows:

% DC injection = Recorded DC value in Amps / Base current

where the base current is the **Registered Capacity** (W) / Vphase. The % DC injection should not be greater than 0.25%.

Test power level	10%	55%	100%
Recorded DC value in Amps	-0.0221	-0.0381	-0.0424
as % of rated AC current	0.10	0.18	0.20
Limit	0.25%	0.25%	0.25%

5. Power Factor: The tests should be carried out on a single **Power Generating Module**. Tests are to be carried out at three voltage levels and at **Registered Capacity** and the measured **Power Factor** must be greater than 0.95 to pass. Voltage to be maintained within $\pm 1.5\%$ of the stated level during the test. These tests should be undertaken in accordance with Annex A.7.1.4.2.

Note that the value of voltage stated in brackets assumes a **LV** connection. This should be adjusted for **HV** as required.

Voltage	0.94 pu (216.20V)	1 pu (230 V)	1.1 pu (253 V)
Measured value	0.99	0.99	0.99
Power Factor Limit	>0.95	>0.95	>0.95

6. Protection – Frequency tests: These tests should be carried out in accordance with the Annex A.7.1.2.3. For trip tests, frequency and time delay should be stated. For “no trip tests”, “no trip” can be stated.

Function	Setting		Trip test		“No trip tests”	
	Frequency	Time delay	Frequency	Time delay	Frequency /time	Confirm no trip



U/F stage 1	47.5 Hz	20 s	47.493 Hz	20.034	47.7 Hz 30 s	No Trip
U/F stage 2	47 Hz	0.5 s	47.020 Hz	0.529	47.2 Hz 19.5 s	No Trip
					46.8 Hz 0.45 s	No Trip
O/F	52 Hz	0.5 s	51.977 Hz	0.533	51.8 Hz 120.0 s	No Trip
					52.2 Hz 0.45 s	No Trip

Note. For frequency trip tests the frequency required to trip is the setting ± 0.1 Hz. In order to measure the time delay a larger deviation than the minimum required to operate the protection can be used. The “No trip tests” need to be carried out at the setting ± 0.2 Hz and for the relevant times as shown in the table above to ensure that the protection will not trip in error.

7. Protection – Voltage tests: These tests should be carried out in accordance with Annex A.7.1.2.2. For trip tests, voltage and time delay should be stated. For “no trip tests”, “no trip” can be stated.

Note that the value of voltage stated below assumes a **LV** connection This should be adjusted for **HV** taking account of the VT ratio as required.

Function	Setting		Trip test		“No trip tests”	
	Voltage	Time delay	Voltage	Time delay	Voltage /time	Confirm no trip
U/V	0.8 pu (184 V)	2.5 s	183.949 V	2.566 s	188 V 5.0 s	No Trip
					180 V 2.45 s	No Trip
O/V stage 1	1.14 pu (262.2 V)	1.0 s	261.498 V	1.025 s	258.2 V 5.0 s	No Trip
O/V stage 2	1.19 pu (273.7 V)	0.5 s	276.139 V	0.522 s	269.7 V 0.95 s	No Trip
					277.7 V 0.45 s	No Trip

Note for Voltage tests the Voltage required to trip is the setting ± 3.45 V. The time delay can be measured at a larger deviation than the minimum required to operate the protection. The No trip tests need to be carried out at the setting ± 4 V and for the relevant times as shown in the table above to ensure that the protection will not trip in error.

8. Protection – Loss of Mains test: These tests should be carried out in accordance with BS EN 62116. Annex A.7.1.2.4.

The following sub-set of tests should be recorded in the following table.



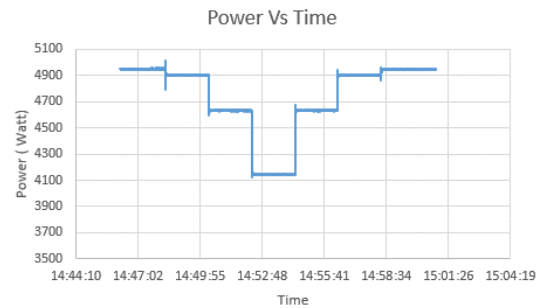
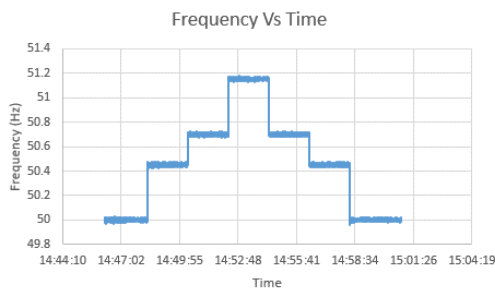
Test Power and imbalance	33% -5% Q Test 22	66% -5% Q Test 12	100% -5% P Test 5	33% +5% Q Test 31	66% +5% Q Test 21	100% +5% P Test 10
Trip time. Limit is 0.5s ⁵	0.04 s	0.097 s	0.103 s	0.038 s	0.059 s	0.099 s
Loss of Mains Protection, Vector Shift Stability test: This test should be carried out in accordance with Annex A.7.1.2.6. Confirmation is required that the Power Generating Module does not trip under positive / negative vector shift.						
	Start Frequency	Change		Confirm no trip		
Positive Vector Shift	49.5 Hz	+50 degrees		No Trip		
Negative Vector Shift	50.5 Hz	- 50 degrees		No Trip		
Loss of Mains Protection, RoCoF Stability test: This test should be carried out in accordance with Annex A.7.1.2.6. Confirmation is required that the Power Generating Module does not trip for the duration of the ramp up and ramp down test.						
Ramp range	Test frequency ramp:			Test Duration		Confirm no trip
49.0 Hz to 51.0 Hz	+0.95 Hzs ⁻¹			2.1 s		No Trip
51.0 Hz to 49.0 Hz	-0.95 Hzs ⁻¹			2.1 s		No Trip
9. Limited Frequency Sensitive Mode – Over frequency test: The test should be carried out using the specific threshold frequency of 50.4 Hz and Droop of 10%. This test should be carried out in accordance with Annex A.7.1.3, which also contains the measurement tolerances.						
Active Power response to rising frequency/time plots are attached if frequency injection tests are undertaken in accordance with Annex A.7.2.4.					Y	
Alternatively, test results should be noted below:						
Test sequence at Registered Capacity >80%	Measured Active Power Output		Frequency	Primary Power Source		Active Power Gradient
Step a) 50.00Hz ±0.01Hz	4952 W		50.01 Hz	Battery Storage		-
Step b) 50.45Hz ±0.05Hz	4903 W		50.45 Hz			-

⁵ If the device requires additional shut down time (beyond 0.5 s but less than 1 s) then this should be stated on this form.



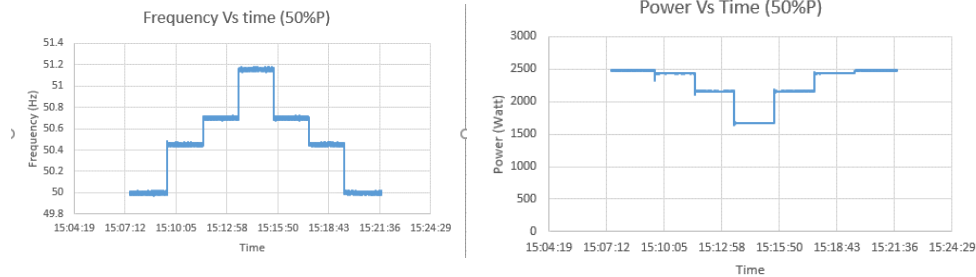
Step c) 50.70Hz ±0.10Hz	4631 W	50.702 Hz		-
Step d) 51.15Hz ±0.05Hz	4152 W	51.149 Hz		-
Step e) 50.70Hz ±0.10Hz	4632 W	50.707 Hz		-
Step f) 50.45Hz ±0.05Hz	4905 W	50.445 Hz		-
Step g) 50.00Hz ±0.01Hz	4950 W	50.01 Hz		

Graphs:



Test sequence at Registered Capacity 40% - 60%	Measured Active Power Output	Frequency	Primary Power Source	Active Power Gradient
Step a) 50.00Hz ±0.01Hz	2483 W	50.002 Hz	Battery Storage	-
Step b) 50.45Hz ±0.05Hz	2435 W	50.45 Hz		-
Step c) 50.70Hz ±0.10Hz	2159 W	50.703 Hz		-
Step d) 51.15Hz ±0.05Hz	1666 W	51.151 Hz		-
Step e) 50.70Hz ±0.10Hz	2159 W	50.708 Hz		-
Step f) 50.45Hz ±0.05Hz	2433 W	50.447 Hz		
Step g) 50.00Hz ±0.01Hz	2484 W	49.998 Hz		

Graphs:



10. Protection – Re-connection timer

Test should prove that the reconnection sequence starts after a minimum delay of 20 s for restoration of voltage and frequency to within the stage 1 settings of Table 10.1. Both the time delay setting and the measured delay should be provided in this form; both should be greater than 20 s to pass. Confirmation should be provided that the **Power Generating Module** does not reconnect at the voltage and frequency settings below; a statement of “no reconnection” can be made.

Time delay setting	Measured delay	Checks on no reconnection when voltage or frequency is brought to just outside stage 1 limits of Table 10.1.			
20 s	20.99 s	At 1.16 pu (266.2 V)	At 0.78 pu (180.0 V)	At 47.4 Hz	At 52.1 Hz
Confirmation that the Power Generating Module does not re-connect.		No Reconnection	No Reconnection	No Reconnection	No Reconnection

11. Fault level contribution: These tests shall be carried out in accordance with EREC G99 Annex A.7.1.5. Please complete each entry, even if the contribution to the fault level is zero.

For **Inverter** output

Time after fault	Volts	Amps
20ms	255.72	1.306
100ms	114.426	0.609
250ms	72.412	0.3856
500ms	51.220	0.2728
Time to trip	0.002247	In seconds



12. Self-Monitoring solid state switching: No specified test requirements. Refer to Annex A.7.1.6.	
It has been verified that in the event of the solid-state switching device failing to disconnect the Power Park Module , the voltage on the output side of the switching device is reduced to a value below 50 volts within 0.5 s.	NA (Achieved by mechanical separation of contacts)
13. Wiring functional tests: If required by para 15.2.1.	
Confirm that the relevant test schedule is attached (tests to be undertaken at time of commissioning)	NA (Type Test)
14. Logic interface (input port)	
Confirm that an input port is provided and can be used to shut down the module	Yes
Provide high level description of logic interface, e.g., details in 11.1.3.1 such as AC or DC signal (the additional comments box below can be used)	Yes
15. Cyber security	
Confirm that the Power Generating Module has been designed to comply with cyber security requirements, as detailed in 9.1.7.	Yes
Additional comments.	
<p>Logic interface (input port)</p> <p>Site Master controller (SMC) incorporates this feature and sends command to AC Powerwall to shut down.</p> <p>Cyber security</p> <p>The Tesla Energy Cybersecurity Program is modelled after the NISTIR 7628 framework, which itself is modelled after the following publications:</p> <ul style="list-style-type: none"> • NIST 800-53, Revision 3, Recommended Security Controls for Federal Information Systems and Organizations, August 2009 • NERC CIP 002, 003-009, Version 5 • Catalog of Control Systems Security: Recommendations for Standards Developers, Department of Homeland Security, March 2010 • ISA99 / IEC62443 	