Tesla, Inc. 3500 Deer Creek Road Palo Alto, California, 94304, U.S.A.



Product: AC Powerwall, Model #: 1092170

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:

G98 Issue 1 – Amendment 2

Engineering Recommendation G98 Issue 1 Amendment 2, 16 May 2018 – Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage 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 3933 US Route 11, Cortland, New York, 13045, USA has issued a positive Statement of Opinion based on test report number 103852302CRT-001.

J.ruf.		
	06/19/2019	(mm/dd/yyyy)
Jonathan McCormick	Date	(, , , , , , , , , , , , , , , ,

Sr. Manager, Regulatory Compliance Engineering





Company:	Tesla	Test Engineer:	Gaurav Joglekar	lipolakas	01/16/2019- 02/21/2019
Project #	G103669691	Project Engineer	Dipesh Patel	Dipesh	2/26/2019
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Partie	2/26/2019
Product Name:	AC Powerwall				
Standard(s):	Engineering Recommendation G98 Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage Distribution Networks on or after 17 May 2019				

Form C: Type Test Verification Report

Type Approval and Manufacturer declaration of compliance with the requirements of G98.

This form should be used when making a Type Test submission to the Energy Networks Association (ENA).

If the **Micro-generator** is **Fully Type Tested** and already registered with the ENA **Type Test Verification Report** Register, the **Installation Document** should include the **Manufacturer**'s Reference Number (the Product ID), and this form does not need to be submitted.

Where the **Micro-generator** is not registered with the ENA **Type Test Verification Report** Register this form needs to be completed and provided to the **DNO**, to confirm that the **Micro-generator** has been tested to satisfy the requirements of this EREC G98.

Manufacturer's reference number		N/A	N/A			
Micro-generator technology		Inverter with	Inverter with Battery Storage			
Manufacture	er name		Tesla Inc.	Tesla Inc.		
Address			3500 Deer Creek Palo Alto, CA 94304			
Tel	(650) 391-7	0) 391-7144		Fax	-	
E-mail	jmccormick	@tesla.com		Web site	www.tesla.com	
		Connection	Option	Option		
Registered use separate		3.68	kW single phase, single, split or three phase system			
more than o connection of		-	kW three phase			
		-	kW two phases in three phase system			
-			kW two phases split phase system			
Manufacture	ar Tyna Ta	st declaration	- I cartify th	nat all products	supplied by the company with the above	

Manufacturer Type Test declaration. - I certify that all products supplied by the company with the above **Type Tested** 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 G98.

Signed	J.m.f.	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.



Company:	Tesla	Test Engineer:	Gaurav Joglekar	lipolopos	01/16/2019- 02/21/2019
Project #	G103669691	Project Engineer	Dipesh Patel	Pipesh	2/26/2019
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	then Parties	2/26/2019
Product Name:	AC Powerwall				
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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.



Company:	Tesla	Test Engineer:	Gaurav Joglekar	lipolekos	01/16/2019- 02/21/2019
Project #	G103669691	Project Engineer	Dipesh Patel	Dipenh	2/26/2019
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	then Parties	2/26/2019
Product Name:	AC Powerwall				
Standard(s):	Engineering Recommendation G98 Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage Distribution Networks on or after 17 May 2019				

Operating Range: This test should be carried out as specified in EN 50438 D.3.1.

Active Power shall be recorded every second. The tests will verify that the **Micro-generator** 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 Micro-generator the PV primary source may be replaced by a DC source.

In case of a full converter **Micro-generator** (eg wind) the primary source and the prime mover **Inverter**/rectifier may be replaced by a **DC** source.

In case of a DFIG Micro-generator the mechanical drive system may be replaced by a test bench motor.

Test 1	
Voltage = 85% of nominal (195.5 V)	Measured Voltage = 195.6V
Frequency = 47.5 Hz	Measured Frequency = 47.501Hz
Power factor = 1	Measured Power Factor = 0.99
Period of test 90 minutes	Time Period = 90 minutes
Test 2	
Voltage = 110% of nominal (253 V).	Measured Voltage = 253.55V
Frequency = 51.5 Hz	Measured Frequency = 51.5Hz
Power factor = 1	Measured Power Factor = 0.99
Period of test 90 minutes	Time Period = 90 minutes
Test 3	
Voltage = 110% of nominal (253 V).	Measured Voltage = 253.1V
Frequency = 52.0 Hz	Measured Frequency = 52.001Hz
Power factor = 1	Measured Power Factor = 0.999
Period of test 15 minutes	Time Period = 15 minutes

Power Quality – Harmonics: These tests should be carried out as specified in BS EN 61000-3-2. The chosen test should be undertaken with a fixed source of energy at two power levels a) between 45 and 55% and b) at 100% of Registered Capacity. The test requirements are specified in Annex A1 A.1.3.1 (Inverter connected) or Annex A2 A.2.3.1 (Synchronous).

Micro-generator tested to BS EN 61000-3-2

Micro-genera	tor rating per phase (rpp)	3.68	kW
Harmonic	At 45-55% of Registered	100% o	f Registered



Company:	Tesla	Test Engineer:	Gaurav Joglekar	lipolakas	01/16/2019- 02/21/2019
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Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Partie	2/26/2019
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	Capacity	Capacity		
	Measured Value MV in Amps	Measured Value MV in Amps	Limit in BS EN 61000- 3-2 in Amps	Higher limit for odd harmonics 21 and above
2	0.0025	0.0045	1.080	
3	0.1571	0.173	2.300	
4	0.0371	0.0301	0.430	
5	0.1744	0.1427	1.140	
6	0.0402	0.0261	0.300	
7	0.1543	0.1089	0.770	
8	0.0105	0.0142	0.230	
9	0.0995	0.1285	0.400	
10	0.0043	0.0089	0.184	
11	0.1353	0.1337	0.330	
12	0.001	0.0056	0.153	
13	0.057	0.1134	0.210	
14	0.0043	0.0095	0.131	
15	0.057	0.0792	0.150	
16	0.0049	0.0085	0.115	
17	0.0551	0.0573	0.132	
18	0.0027	0.0058	0.102	
19	0.0237	0.0593	0.118	
20	0.004	0.0119	0.092	



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Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Parties	2/26/2019
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21	0.0243	0.0535	0.107	0.160
22	0.0053	0.0061	0.084	
23	0.0141	0.0364	0.098	0.147
24	0.0028	0.0034	0.077	
25	0.0047	0.0199	0.090	0.135
26	0.0034	0.0066	0.071	
27	0.0022	0.0167	0.083	0.124
28	0.0019	0.0007	0.066	
29	0.0052	0.0175	0.078	0.117
30	0.0034	0.0029	0.061	
31	0.008	0.0046	0.073	0.109
32	0.0041	0.004	0.058	
33	0.0059	0.0011	0.068	0.102
34	0.0041	0.0047	0.054	
35	0.0071	0.0031	0.064	0.096
36	0.0032	0.0031	0.051	
37	0.011	0.0059	0.061	0.091
38	0.0097	0.003	0.048	
39	0.004	0.0061	0.058	0.087
40	0.0057	0.0042	0.046	
		•		

Note the higher limits for odd harmonics 21 and above are only allowable under certain conditions, if these higher limits are utilised please state the exemption used as detailed in part 6.2.3.4 of BS EN 61000-3-2 in the box below.

NOTE: 100%POWER g98.CSV & 50% POWERg98.CSV



Company:	Tesla	Test Engineer:	Gaurav Joglekar	lipolatos	01/16/2019- 02/21/2019		
Project #	G103669691	Project Engineer	Dipesh Patel Cipesh		2/26/2019		
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Parties	2/26/2019		
Product Name:	AC Powerwall						
Standard(s): Engineering Recommendation G98 Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage Distribution Networks on or after 17 May 2019							

Power Quality – Voltage fluctuations and Flicker: These tests should be undertaken in accordance with EREC G98 Annex A1 A.1.3.3 (**Inverter** connected) or Annex A2 A.2.3.3 (Synchronous).

	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	0.00	0.00	0.00	0.00	0.00	0.00	0.064	0.064
Normalised to standard impedance	0.00	0.00	0.00	0.00	0.00	0.00	0.064	0.064
Normalised to required maximum impedance	0.00	0.00	0.00	0.00	0.00	0.00	0.064	0.064
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	Х		0.25	Ω
Standard Impedance	R	0.24 * 0.4 ^			Х		0.15 * 0.25 ^	Ω
Maximum Impedance	R	0.4		Ω	Х		0.25	Ω

Applies to three phase and split single phase **Micro-generators**.

For voltage change and flicker measurements the following formula is to be used to convert the measured values to the normalised values where the power factor of the generation output is 0.98 or above.

Normalised value = Measured value*reference source resistance/measured source resistance at test point.

Single phase units reference source resistance is $0.4~\Omega$

Two phase units in a three phase system reference source resistance is 0.4 Ω .

Two phase units in a split phase system reference source resistance is 0.24 Ω .

Three phase units reference source resistance is 0.24Ω .

Where the power factor of the output is under 0.98 then the X to R ratio of the test impedance should be

[^] Applies to single phase **Micro-generators** and **Micro-generators** using two phases on a three phase system.



Company:	Tesla	Test Gaurav Engineer: Joglekar		lipolakas	01/16/2019- 02/21/2019	
Project #	G103669691	Project Engineer	Dipesh Patel	Dipesh	2/26/2019	
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Parties	2/26/2019	
Product Name:	AC Powerwall					
Standard(s): Engineering Recommendation G98 Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage Distribution Networks on or after 17 May 2019						

	unto: 17 mm	ay 2010								
close to that of the stopping terms. The duration of technology under	st should be a these tests n	trip from full lo	n to the p	articula				testi	ing notes fo	r the
Test start date		4/25/2017		Test 6	end da	te 4/2	25/2017	5/2017		
Test location		Intertek Boxb	orough			•				
Power quality -	- DC injectio	n: This test sho	ould be c	arried c	ut in a	ccordance	with EN 50	438 <i>F</i>	Annex D.3.1	0
Test power leve	ı	20%	:	50%		75	5%		100%	
Recorded value Amps	in _	0.0358	-0	.0138		-0.0)352		-0.0249	
as % of rated A	С	0.22%	0.086%		0.22%			0.155%		
Limit		0.25%	0.25%		0.2	25%		0.25%		
Power Quality with nominal votest.										
			2	16.2 V		2	230 V		253 V	
20% of Registe	red Capacity	,	0.99		0.99			0.99		
50% of Registe	red Capacity	,		0.99			0.99		0.99	
75% of Registe	red Capacity	,		0.99			0.99		0.99	
100% of Regist	ered Capacit	у		0.99			0.99		0.99	
Limit			:	>0.95		:	>0.95		>0.95	
Protection – Fi).2.4
Function	Setting		Trip test		"No trip tests		ts"			
	Frequency	Time delay	Freque	ency	Time	delay	Frequency /time		Confirm trip	no



Company:	Tesla	Test Engineer:	Gaurav Joglekar	lipolakas	01/16/2019- 02/21/2019	
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Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Partie	2/26/2019	
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U/F stage 1	47.5 Hz	20 s	47.5 Hz	20.04sec	47.7 Hz 25 s	NO TRIP
U/F stage 2	47 Hz	0.5 s	47 Hz	0.506sec	47.2 Hz 19.98 s	NO TRIP
					46.8 Hz 0.48 s	NO TRIP
O/F stage 1	52 Hz	0.5 s	52 Hz	0.48sec	51.8 Hz 89.98 s	NO TRIP
					52.2 Hz 0.48 s	NO TRIP

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

Protection – Voltage tests: These tests should be carried out in accordance with EN 50438 Annex D.2.3 and the notes in EREC G98 Annex A1 A.1.2.2 (**Inverter** connected) or Annex A2 A.2.2.2 (Synchronous)

Function	Setting		Trip test		"No trip tests"	
	Voltage	Time delay	Voltage	Time delay	Voltage /time	Confirm no trip
U/V	184 V	2.5 s	183.95 V	2.55 s	188 V 3.50 s	NO TRIP
					180 V 2.48 s	NO TRIP
O/V stage 1	262.2 V	1.0 s	261.50 V	1.06 s	258.2 V 2.0 s	NO TRIP
O/V stage 2	273.7 V	0.5 s	276.14 V	0.564 s	269.7 V 0.98 s	NO TRIP
					277.7 V 0.48 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.

Protection – Loss of Mains test: For PV Inverters shall be tested in accordance with BS EN 62116. Other Inverters should be tested in accordance with EN 50438 Annex D.2.5 at 10%, 55% and 100% of rated power.



Company:	Tesla	Test Engineer:	Gaurav Joglekar		01/16/2019- 02/21/2019		
Project #	G103669691	Project Engineer	Dipesh Patel Cycal		2/26/2019		
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Parties	2/26/2019		
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To be carried out at three output power levels with a tolerance of plus or minus 5% in Test Power levels.									
Test Power	10%	55%	100%	10%	55%	100%			
Balancing load on islanded network	95% of Registered Capacity	95% of Registered Capacity	95% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity			
Trip time. Limit is 0.5 s	-	-	-	-	-	-			
For Multi phase Micro -fuse as well as operation			device shuts d	own correctly	after the remo	val of a single			
Test Power	10%	55%	100%	10%	55%	100%			
Balancing load on islanded network	95% of Registered Capacity	95% of Registered Capacity	95% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity			
Trip time. Ph1 fuse removed	-	-	-	-	-	-			
Test Power	10%	55%	100%	10%	55%	100%			
Balancing load on islanded network	95% of Registered Capacity	95% of Registered Capacity	95% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity			
Trip time. Ph2 fuse removed	-	-	-	-	-	-			
Test Power	10%	55%	100%	10%	55%	100%			
Balancing load on islanded network	95% of Registered Capacity	95% of Registered Capacity	95% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity			
Trip time. Ph3 fuse removed	-	-	-	-	-	-			
	Note for technologies which have a substantial shut down time this can be added to the 0.5 s in establishing that the trip occurred in less than 0.5 s. Maximum shut down time could therefore be up to 1.0 s for these technologies.								

ms



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Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Parties	2/26/2019		
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For Inverters tested to BS EN 62116 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% Test	P	33% +5% Q Test 31	66% +5% Q Test 21	100% +5% P Test 10	
Trip time. Limit is 0.5 s	0.053 sec	0.092 sec	0.07	3 sec	0.056 sec	0.058 sec	0.066 sec	
Protection – Frequency change, Vector Shift Stability test: This test should be carried out in accordance with EREC G98 Annex A1 A.1.2.6 (Inverter connected) or Annex A2 A.2.2.6 (Synchronous).								
	Star	t Frequency Change		Э	Confirm no	Confirm no trip		
Positive Vector Shift	49.0) Hz +50 de		grees	NO TRIP	NO TRIP		
Negative Vector Shift	50.0	Hz - 50 deg		grees	NO TRIP	NO TRIP		
	Protection – Frequency change, RoCoF Stability test: The requirement is specified in section 11.3, test procedure in Annex A.1.2.6 (Inverter connected) or Annex A2 A.2.2.6 (Synchronous).							
Ramp range	Tes	t frequency ram	ıp:	Test D	uration	Confirm no	Confirm no trip	
49.0 Hz to 51.0 Hz	+0.9	+0.95 Hzs ⁻¹		2.1 s		NO TRIP	NO TRIP	
51.0 Hz to 49.0 Hz	-0.9	5 Hzs ⁻¹		2.1 s		NO TRIP	NO TRIP	

Limited Frequency Sensitive Mode – Overfrequency test: This test should be carried out in accordance with EN 50438 Annex D.3.3 Power response to over- frequency. The test should be carried out using the specific threshold frequency of 50.4 Hz and **Droop** of 10%.

Test sequence at Registered Capacity >80%	Measured Active Power Output	Frequency	Primary Power Source	Active Power Gradient
Step a) 50.00 Hz ±0.01 Hz	3673.9 W	50 Hz		-
Step b) 50.45 Hz ±0.05 Hz	3644.74 W	50.45 Hz		-
Step c) 50.70 Hz ±0.10 Hz	3573.79 W	50.7 Hz		-
Step d) 51.15 Hz ±0.05 Hz	3408.86 W	51.15 Hz		-
Step e) 50.70 Hz ±0.10 Hz	3572.381	50.7 Hz		-



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Step f) 50.45 Hz ±0.05 Hz	3645.38 W	50.45 Hz		-
Step g) 50.00 Hz ±0.01 Hz	3672.66 W	50 Hz		
Test sequence at Registered Capacity 40% - 60%	Measured Active Power Output	Frequency	Primary Power Source	Active Power Gradient
Step a) 50.00 Hz ±0.01 Hz	1817.21 W	50 Hz		-
Step b) 50.45 Hz ±0.05 Hz	1803.8 W	50.45 Hz		-
Step c) 50.70 Hz ±0.10 Hz	1712.49 W	50.7 Hz		-
Step d) 51.15 Hz ±0.05 Hz	1548.21 W	51.15 Hz		-
Step e) 50.70 Hz ±0.10 Hz	1713.21 W	50.7 Hz		-
Step f) 50.45 Hz ±0.05 Hz	1800.21 W	50.45 Hz		-
Step g) 50.00 Hz ±0.01 Hz	1820.36 W	50 Hz		

Steps as defined in EN 50438

Power output with falling frequency test: This test should be carried out in accordance with EN 50438 Annex D.3.2 active power feed-in at under-frequency.

Test sequence	Measured Active Power Output	Frequency	Primary power source
Test a) 50 Hz ± 0.01 Hz	3680.78 W	50 Hz	NA
Test b) Point between 49.5 Hz and 49.6 Hz	3682.78 W	49.5 Hz	NA
Test c) Point between 47.5 Hz and 47.6 Hz	3617.24 W	47.5 Hz	NA

NOTE: The operating point in Test (b) and (c) shall be maintained for at least 5 minutes

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 2.



Company:	Tesla	Test Engineer:	Gaurav Joglekar	libologo	01/16/2019- 02/21/2019
Project #	G103669691	Project Engineer	Dipesh Patel	DipedL	2/26/2019
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Parties	2/26/2019
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Time delay setting	Measured delay		Checks on no reconnection when voltage or frequency is brought to just outside stage 1 limits of table 2.					
20	20sec	At 266.2	2 V	At 196.1 V	At 47.4 Hz	At 52.1 Hz		
	Confirmation that the Micro-generator does not re-connect.		ection	No- reconnection	No- reconnection	No- reconnection		
	ribution: These tests ted) and Annex A2 A.2				with EREC G98 A	nnex A1 A.1.3.5		
For machines wit	tput		For Inverter	For Inverter output				
Parameter	ter		Value	Time afte fault	r Volts	Amps		
Peak Short Circuit current		i_p	-	20 ms	255.72	1.306		
Initial Value of aperiodic current		Α	-	100 ms	114.426	0.609		
Initial symmetrical short-circuit current*		I _k	-	250 ms	72.412	0.3856		
Decaying (aperio	dic) component of ent*	i _{DC}	-	500 ms	51.22	0.2728		
Reactance/Resis source*	tance Ratio of	X/ _R	-	Time to trip	0.00247	In seconds		

For rotating machines and linear piston machines the test should produce a 0 s - 2 s plot of the short circuit current as seen at the **Micro-generator** terminals.

* Values for these parameters should be provided where the short circuit duration is sufficiently long to enable interpolation of the plot

Logic Interface.	Yes
Self-Monitoring solid state switching: No specified test requirements. Refer to EREC G98 Annex A1 A.1.3.6 (Inverter connected).	NA
It has been verified that in the event of the solid state switching device failing to disconnect the Micro-generator , the voltage on the output side of the switching device is reduced to a value below 50 V within 0.5 s.	NA
Additional comments	

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Company:	Tesla	Test Engineer:	Gaurav Joglekar	libolatos	01/16/2019- 02/21/2019
Project #	G103669691	Project Engineer	Dipesh Patel	Dipesh	2/26/2019
Model:	1092170-xx-y	Reviewer:	Steven Pasternack	the Partie	2/26/2019
Product Name:	AC Powerwall				
Standard(s):	Engineering Recommendation G98 Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage Distribution Networks on or after 17 May 2019				