



# 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.

Manufactur	Manufacturer's reference number		Growatt 10	Growatt 10000 TL3-S2018			
Micro-gene	Micro-generator technology		Growatt 3000 TL3-S, Growatt 4000 TL3-S, Growatt 5000 TL3-S, Growatt 6000 TL3-S, Growatt 7000 TL3-S, Growatt 8000 TL3-S, Growatt 9000 TL3-S, Growatt 10000 TL3-S				
Manufactur	<b>er</b> name		Growatt Ne	Growatt New Energy Technology Co., Ltd.			
Address			1st East & 3rd Floor of Building A,Building B,Jiayu Industrial Park,#28,GuangHui Road,LongTeng Community,Shiyan Street, Baoan District,Shenzhen,P.R.China				
Tel	+86 755 295	51 5888		Fax	+86 755 2747 2131		
E-mail	Yunzhong.	cai@growatt.c	com	Web site	www.ginverter.com		
		Connection (	Option				
Registered use separate		N/A	kW single p	ohase, single, sp	lit or three phase system		
	more than one connection option.		kW three p	hase			
N/A		kW two phases in three phase system					
		N/A	kW two pha	ases split phase	system		

**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	蔡云忠,	On behalf of	Growatt New Energy Technology Co., Ltd.
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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.

1.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.

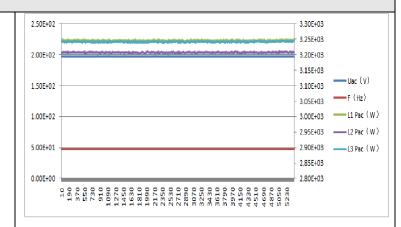


Voltage = 85% of nominal (195.5 V)

Frequency = 47.5 Hz

Power factor = 1

Period of test 90 minutes



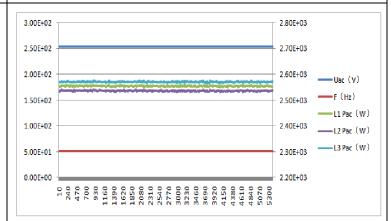
#### Test 2

Voltage = 110% of nominal (253 V).

Frequency = 51.5 Hz

Power factor = 1

Period of test 90 minutes





Test 3
Voltage = 110% of nominal (253 V).
Frequency = 52.0 Hz

Power factor = 1

Period of test 15 minutes



**2.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-go	enerator rating per phase (rpp)	3.33	kW	NV=MV*3.68/rpp
Harmonic	At 45-55% of Registered Capacity		f Registered apacity	

		Average	harmonic currer	nt results -	- Phase 1	
	Measured Value MV in Amps	Norma lised Value (NV) in Amps	Measured Value MV in Amps	Normali sed Value (NV) in Amps	Limit in BS EN 61000- 3-2 in Amps	Higher limit for odd harmonics 21 and above
2	0.020	0.022	0.024	0.027	1.080	
3	0.040	0.045	0.046	0.051	2.300	
4	0.031	0.035	0.051	0.056	0.430	
5	0.190	0.210	0.248	0.274	1.140	
6	0.018	0.020	0.024	0.027	0.300	
7	0.114	0.126	0.140	0.155	0.770	
8	0.014	0.015	0.021	0.023	0.230	
9	0.021	0.023	0.022	0.024	0.400	



				1	1	
10	0.010	0.011	0.014	0.015	0.184	
11	0.039	0.043	0.054	0.060	0.330	
12	0.006	0.007	0.006	0.007	0.153	
13	0.035	0.038	0.045	0.050	0.210	
14	0.005	0.006	0.007	0.008	0.131	
15	0.010	0.011	0.010	0.011	0.150	
16	0.004	0.004	0.005	0.006	0.115	
17	0.021	0.023	0.033	0.036	0.132	
18	0.009	0.010	0.014	0.015	0.102	
19	0.015	0.017	0.025	0.028	0.118	
20	0.007	0.007	0.012	0.013	0.092	
21	0.004	0.004	0.004	0.004	0.107	0.160
22	0.003	0.003	0.004	0.004	0.084	
23	0.008	0.009	0.016	0.018	0.098	0.147
24	0.002	0.002	0.002	0.002	0.077	
25	0.006	0.006	0.012	0.013	0.090	0.135
26	0.002	0.002	0.002	0.002	0.071	
27	0.003	0.003	0.003	0.003	0.083	0.124
28	0.002	0.002	0.002	0.002	0.066	
29	0.005	0.005	0.008	0.009	0.078	0.117
30	0.001	0.001	0.002	0.002	0.061	
31	0.004	0.004	0.006	0.007	0.073	0.109
32	0.002	0.002	0.002	0.002	0.058	
33	0.001	0.001	0.002	0.002	0.068	0.102
34	0.001	0.001	0.001	0.001	0.054	
35	0.003	0.003	0.004	0.004	0.064	0.096
36	0.001	0.002	0.002	0.002	0.051	



37	0.003	0.004	0.004	0.004	0.061	0.091
38	0.001	0.001	0.001	0.001	0.048	
39	0.002	0.002	0.001	0.001	0.058	0.087
40	0.001	0.001	0.001	0.001	0.046	

		Average	harmonic currer	nt results -	- Phase 2	
	Measured Value MV in Amps	Norma lised Value (NV) in Amps	Measured Value MV in Amps	Normali sed Value (NV) in Amps	Limit in BS EN 61000- 3-2 in Amps	Higher limit for odd harmonics 21 and above
2	0.178	0.197	0.212	0.234	1.080	
3	0.065	0.072	0.073	0.081	2.300	
4	0.040	0.045	0.063	0.070	0.430	
5	0.174	0.193	0.236	0.261	1.140	
6	0.028	0.030	0.033	0.036	0.300	
7	0.123	0.136	0.158	0.175	0.770	
8	0.016	0.018	0.020	0.022	0.230	
9	0.035	0.039	0.031	0.034	0.400	
10	0.017	0.019	0.021	0.023	0.184	
11	0.042	0.047	0.058	0.064	0.330	
12	0.012	0.014	0.014	0.015	0.153	
13	0.034	0.038	0.044	0.049	0.210	
14	0.014	0.015	0.018	0.020	0.131	
15	0.016	0.018	0.017	0.019	0.150	
16	0.006	0.007	0.006	0.007	0.115	
17	0.019	0.021	0.033	0.036	0.132	
18	0.007	0.007	0.012	0.013	0.102	
19	0.015	0.017	0.026	0.029	0.118	



20	0.008	0.008	0.012	0.013	0.092	
21	0.004	0.005	0.004	0.004	0.107	0.160
22	0.004	0.004	0.004	0.004	0.084	
23	0.008	0.008	0.016	0.018	0.098	0.147
24	0.004	0.004	0.004	0.004	0.077	
25	0.006	0.006	0.012	0.013	0.090	0.135
26	0.004	0.005	0.007	0.008	0.071	
27	0.004	0.004	0.005	0.006	0.083	0.124
28	0.003	0.004	0.003	0.003	0.066	
29	0.004	0.005	0.008	0.009	0.078	0.117
30	0.003	0.003	0.003	0.003	0.061	
31	0.004	0.004	0.006	0.007	0.073	0.109
32	0.002	0.003	0.003	0.003	0.058	
33	0.002	0.002	0.002	0.002	0.068	0.102
34	0.002	0.003	0.002	0.002	0.054	
35	0.003	0.003	0.004	0.004	0.064	0.096
36	0.002	0.003	0.003	0.003	0.051	
37	0.003	0.003	0.004	0.004	0.061	0.091
38	0.002	0.002	0.001	0.001	0.048	
39	0.002	0.002	0.002	0.002	0.058	0.087
40	0.002	0.003	0.003	0.003	0.046	

Average harmonic current results – Phase 3									
	Measured Value MV in Amps	Norma lised Value (NV) in Amps	Measured Value MV in Amps	Normali sed Value (NV) in Amps	Limit in BS EN 61000- 3-2 in Amps	Higher limit for odd harmonics 21 and above			
2	0.179	0.198	0.216	0.239	1.080				



				<u> </u>		
3	0.033	0.036	0.035	0.039	2.300	
4	0.030	0.033	0.053	0.059	0.430	
5	0.203	0.224	0.264	0.292	1.140	
6	0.021	0.024	0.018	0.020	0.300	
7	0.104	0.115	0.138	0.153	0.770	
8	0.015	0.017	0.021	0.023	0.230	
9	0.018	0.020	0.019	0.021	0.400	
10	0.013	0.015	0.013	0.014	0.184	
11	0.049	0.055	0.064	0.071	0.330	
12	0.014	0.016	0.015	0.017	0.153	
13	0.031	0.035	0.043	0.048	0.210	
14	0.013	0.014	0.016	0.018	0.131	
15	0.007	0.008	0.008	0.009	0.150	
16	0.006	0.007	0.005	0.006	0.115	
17	0.022	0.024	0.035	0.039	0.132	
18	0.011	0.012	0.013	0.014	0.102	
19	0.014	0.015	0.024	0.027	0.118	
20	0.008	0.009	0.013	0.014	0.092	
21	0.003	0.003	0.003	0.003	0.107	0.160
22	0.005	0.005	0.004	0.004	0.084	
23	0.008	0.009	0.016	0.018	0.098	0.147
24	0.004	0.005	0.004	0.004	0.077	
25	0.005	0.006	0.010	0.011	0.090	0.135
26	0.005	0.005	0.008	0.009	0.071	
27	0.002	0.002	0.002	0.002	0.083	0.124
28	0.004	0.004	0.004	0.004	0.066	
29	0.005	0.005	0.008	0.009	0.078	0.117



	1	1	ı	1	ı	
30	0.003	0.003	0.002	0.002	0.061	
31	0.003	0.004	0.005	0.006	0.073	0.109
32	0.003	0.003	0.004	0.004	0.058	
33	0.001	0.001	0.001	0.001	0.068	0.102
34	0.002	0.003	0.003	0.003	0.054	
35	0.003	0.004	0.004	0.004	0.064	0.096
36	0.002	0.002	0.001	0.001	0.051	
37	0.003	0.003	0.003	0.003	0.061	0.091
38	0.002	0.002	0.002	0.002	0.048	
39	0.001	0.001	0.001	0.001	0.058	0.087
40	0.002	0.003	0.003	0.003	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.

**3.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 <sub>st</sub>	P <sub>lt</sub> 2 hours



Measured Values at test impedance	0.169	0.24	0		0.169	0.24	0		0.042		0.040
Normalised to standard impedance	0.169	0.24	0		0.169	0.24	0		0.042		0.040
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	0.24		Ω	!	X		0.	15	Ω	
Standard Impedance	R	0.24 * 0.4 ^	Ω			X			0.15 * Ω 0.25 ^		
Maximum Impedance	R	-		Ω		Х		-		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  $\Omega$ .

Two phase units in a split phase system reference source resistance is 0.24  $\Omega$ .

Three phase units reference source resistance is 0.24  $\Omega$ .

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 need to conform to the particular requirements set out in the testing notes for the technology under test. Dates and location of the test need to be noted below.

Test start date	13.DEC.2018	Test end date	13.DEC.2018

<sup>^</sup> Applies to single phase **Micro-generators** and **Micro-generators** using two phases on a three phase system.



Test location		Grow	att R	&D Test Lab			I			
<b>4.Power qua</b> D.3.10	lity – DC	inject	ion:	This test sho	ould be carr	ied ou	t in accordan	ce with EN 50438 Annex		
Test power level	20%	20%		6	75%		100%			
Recorded value in Amp	18.6n 7.5m/ 6mA			5mA/16. A/16.6m	15.4mA/1 mA/14.2r		12.1mA/13.6mA/12.6mA			
as % of rated AC current	0.12%/0.1 1%/0.14%		-	1%/0.10 0.11%	0.11%/0. /0.10%	10%	0.08%/0.0	8%/0.08%/		
Limit	0.25%		0.25	5%	0.25%		0.25%			
D.3.4.1 but w	<b>5.Power Quality – Power factor</b> : This test shall be carried out in accordance with EN 50548 Annex D.3.4.1 but with nominal voltage -6% and +10%. Voltage to be maintained within ±1.5% of the stated level during the test.									
		216.2	V		230 V		253 V			
20% of Reg	gistered	0.9918		0.9912		0.9897				
50% of Reg	gistered	0.9956		0.9961		0.9965				
75% of Reg	gistered	0.995	5		0.9960		0.9965			
100% of Reg	gistered	0.9952	2		0.9958		0.9962			
Limit		>0.95			>0.95		>0.95			
	and the n							cordance with EN 50438 ted) or Annex A2 A.2.2.3		
Function	Setting			Trip test	"No tr		rip tests"			
	Frequenc	y Tim	е	Frequency	Time Frequ		ency /time Confirm no trip			



		delay		delay		
U/F stage	47.5 Hz	20 s	47.51Hz	20.05s	47.7 Hz 25 s	No Trip
U/F stage 2	47 Hz	0.5 s	47.01Hz	0.548s	47.2 Hz 19.98 s	No Trip
					46.8 Hz 0.48 s	No Trip
O/F stage	52 Hz	0.5 s	52.00Hz	0.64s	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.

**7.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	184.5V	2.596 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	262.38V	1.062s	258.2 V 2.0 s	No Trip	
O/V stage 2	273.7 V	0.5 s	273.9V	0.574s	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  $\pm 3.45$  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  $\pm 4$  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:** 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.

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%
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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	0.301s	0.372s	0.324s	0.269s	0.326 s	0.389 s		
For Multi phase <b>N</b> single fuse as wel			at the device s	shuts down	correctly after th	e removal of a		
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	Registered Registered		105% of Registered Capacity		
Trip time. Ph1 fuse removed	0.291 s	0.324 s	0.356 s	0.302 s	0.317 s	0.358 s		
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	0.301 s	0.378 s	0.354 s	0.321 s	0.358 s	0.347 s		
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	0.345 s	0.374 s	0.358 s	0.367 s	0.315 s	0.306 s		
Note for technolous establishing that to 1.0 s for these technology.	he trip occurre							
Indicate additional shut down time included in above results.  0.3ms								
For <b>Inverters</b> test table.	ted to BS EN 6	62116 the follo	wing sub set o	of tests shou	ıld be recorded i	in the following		
Test Power and	33%	66%	100%	33%	66%	100%		
imbalance	-5% Q	-5% Q	-5% P	+5% Q	+5% Q	+5% P		
	Test 22	Test 12	Test 5	Test 31	Test 21	Test 10		



Trip time. Limit is 0.5 s	0.294		0.367	0.342	2	0.298	3	0.347	0.389
9.Protection – F accordance with E									
	Star		Frequency	Chang	je	Co	Confirm no trip		
Positive Vector Sh	ift	49.0	Hz	+50 de	egrees	No	o Trip		
Negative Vector S	hift	50.0	Hz	- 50 de	egrees	No	o Trip		
<b>10.Protection – Frequency change, RoCoF Stability test:</b> The requirement is specified in section 11.3, test procedure in Annex A.1.2.6 ( <b>Inverter</b> connected) or Annex A2 A.2.2.6 (Synchronous).									
Ramp range		Test	frequency ra	mp:	Test D	uration	Con	firm no trip	
49.0 Hz to 51.0 Hz	Z	+0.9	5 Hzs <sup>-1</sup>		2.1 s		No <sup>-</sup>	Trip	
51.0 Hz to 49.0 Hz	<u>z</u>	-0.95	5 Hzs <sup>-1</sup>		2.1 s		No -	Trip	
11.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 <b>Droop</b> of 10%.									
Test sequence at Registered Capacity >80%		Ac	easured <b>tive Power</b> tput	ve Power '		Prima	ary Pow	er Source	Active Power Gradient
Step a) 50.00 Hz	±0.01 Hz	97	77.38W	50Hz	<u>z</u>	10035W		-	
Step b) 50.45 Hz	±0.05 Hz	97	23.71W	50.4	5Hz				-
Step c) 50.70 Hz ±	£0.10 Hz	92	25.03W	50.69	99Hz				-
Step d) 51.15 Hz :	±0.05 Hz	83	38.59W	51.1	5Hz				-
Step e) 50.70 Hz	±0.10 Hz	92	37.98W	50.69	99Hz				-
Step f) 50.45 Hz ±	0.05 Hz	91	70.33W	50.4	5Hz				-
Step g) 50.00 Hz	±0.01 Hz	97	75.69W	50Hz	<u>z</u>				
Test sequence at Registered Capaci-60%	<b>city</b> 40%	Ac	easured tive Power tput		Frequency		ary Pow	er Source	Active Power Gradient
Step a) 50.00 Hz	±0.01 Hz	488	87.82W	50Hz	<u> </u>	4979.	.67W		-
Step b) 50.45 Hz :	±0.05 Hz	48	30.54W	50.4	5Hz				-
Step c) 50.70 Hz ±	±0.10 Hz	459	93.42W	50.71	Hz			-	



				STOWALL IVEW LINE	ingy recrimoto	Бу Со., Ета.		
Step d) 51.15 Hz ±0.05 Hz	4145.35W	51.151	Hz			-		
Step e) 50.70 Hz ±0.10 Hz	4584.01W	50.7Hz	:			-		
Step f) 50.45 Hz ±0.05 Hz	4528.99W	50.451	Hz			-		
Step g) 50.00 Hz ±0.01 Hz	4886.25W	50Hz						
Steps as defined in EN 5043	8							
<b>12.Power output with falling frequency test:</b> 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 <b>Power</b> Outpu			uency	Primary pov	wer source		

Test sequence	Measured Active Power Output	Frequency	Primary power source
Test a) 50 Hz ± 0.01 Hz	9881.74 W	49.998 Hz	10187.36 W
Test b) Point between 49.5 Hz and 49.6 Hz	9876.61W	49.499 Hz	10182.72 W
Test c) Point between 47.5 Hz and 47.6 Hz	9860.9W	47.498 Hz	10165.88 W

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

### 13.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.

Time delay setting	Measured delay	Checks on no reconnection when voltage or frequency is brought to just outside stage 1 limits of table 2.						
20s	36.5	At 266.2 V	At 196.1 V	At 47.4 Hz	At 52.1 Hz			
	n that the does not re-con	 Yes	Yes	Yes	Yes			

**14.Fault level contribution**: These tests shall be carried out in accordance with EREC G98 Annex A1 A.1.3.5 (**Inverter** connected) and Annex A2 A.2.3.4 (Synchronous).

For machines with electro-magne	etic output	For <b>Inverter</b> output			
Parameter	Symbol	Value	Time after fault	Volts	Amps
Peak Short Circuit current	$i_p$		20 ms	10V	0.4A
Initial Value of aperiodic current	Α		100 ms	10V	0.38
Initial symmetrical short-circuit	$I_k$		250 ms	9.6V	0.29



current*					
Decaying (aperiodic) component of short circuit current*	i <sub>DC</sub>		500 ms	9.2V	0.26
Reactance/Resistance Ratio of source*	X/ <sub>R</sub>		Time to trip	0.11	In seconds
For rotating machines and linear circuit current as seen at the <b>Mic</b>				duce a 0 s – 2 s	plot of the short
* Values for these parameters shenable interpolation of the plot	nould be p	provided v	where the short ci	cuit duration is s	ufficiently long to
15.Logic Interface.					Yes
<b>16.Self-Monitoring solid state switching:</b> No specified test requirements. Refer to EREC G98 Annex A1 A.1.3.6 ( <b>Inverter</b> connected).					to Yes/or NA
It has been verified that in the event of the solid state switching device failing to disconnect the <b>Micro-generator</b> , the voltage on the output side of the switching device is reduced to a value below 50 V within 0.5 s.					
Additional comments					