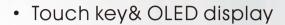
### MIC 750~3300TL-X

- Maximum efficiency of 97.6%
- Compact design



• Flexible monitoring options

AFCI optional





GROWATT

POWER

T 0 M 0 -

R R O W C

Datasheet	MIC 750TL-X	MIC 1000TL-X	MIC 1500TL-X	MIC 2000TL-X	MIC 2500TL-X	MIC 3000TL-X	MIC 3300TL			
Input data (DC)										
Max. recommended PV power	1050W	1400W	2100W	2800W	3500W	4200W	4290W			
(for module STC)  Max. DC voltage	500V	500V	500V	500V	550V	550V	550V			
Start voltage	50V	50V	50V	50V	80V	80V	80V			
Nominal voltage	120V	180V	250V	360V	360V	360V	360V			
MPP voltage range	50V-500V	50V-500V	50V-500V	50V-500V	65V-550V	65V-550V	65V-550V			
No. of MPP trackers	00.000.	001 0001	001 0001	1	557 5557	001 0001	557 5551			
No. of PV strings per MPP tracker										
Max. input current per MPP tracker		1 13A								
Max. short-circuit current per MPP tracker				16A						
Output data (AC)										
AC nominal power	750W	1000W	1500W	2000W	2500W	3000W	3300W			
Max. AC apparent power	750VA	1000VA	1500VA	2000VA	2500VA	3000VA	3300VA			
Nominal AC voltage(range*)	700471	100077	1000471	230V (180-280V)	200011	000071	0000111			
AC grid frequency(range*)			50	/60 Hz (45-55Hz/55-65	H <sub>2</sub> )					
		4.04			,	3400	1404			
Max. output current	3.6A	4.8A	7.1A	9.5A	11.9A	14.3A	14.3A			
Adjustable power factor			(	0.8leading0.8laggin	9					
THDi		<3%								
AC grid connection type				Single phase						
Efficiency										
Max.efficiency	97.4%	97.4%	97.4%	97.4%	97.6%	97.6%	97.6%			
European efficiency	96.5%	96.5%	97.0%	97.0%	97.0%	97.1%	97.1%			
MPPT efficiency				99.9%						
Protection devices				Yes						
DC reverse polarity protection DC switch				Yes						
AC/DC surge protection				Type III / Type III						
Insulation resistance monitoring				Yes						
AC short-circuit protection				Yes						
Ground fault monitoring				Yes						
Grid monitoring				Yes						
Anti-islanding protection				Yes						
Residual-current monitoring unit				Yes						
AFCI protection				Optional						
•				Opilorial						
General data				074/054/100						
Dimensions (W / H / D)	(1)	(less	(1)	274/254/138mm	( 01:	/ Ol	( 0)			
Weight Operating temperature range	6kg	6kg	6kg	6kg -25°C +60°C	6.2kg	6.2kg	6.2kg			
Nighttime power consumption				< 0.5W						
Topology				Transformerless						
Cooling				Natural convection						
Protection degree				IP65						
Relative humidity				0-100%						
Altitude				4000m						
DC connection				H4/MC4(Optional)						
AC connection				Connector						
Display				OLED+LED/WIFI+APP						
Interfaces: RS485 / USB/Wi-Fi/ GPRS/ RF/LAN			Yes/Yes/Op	tional/Optional/Option	al /Optional					
Warranty: 5 years / 10 years				Yes /Optional						
		25 404777 40477001	00, CEI 0-21, VDE-AR-N		UTE 0 15 710 1 5N50	- 10 150 10010 150 13	22			

<sup>\*</sup> The AC voltage and frequency range may vary depending on specific country grid standard. All specifications are subject to change without notice.

#### Warranty claim procedure:

Please report the potentially defective devices to your supplier to identify.

Supplier is required to send the warranty claim form to Growatt or authorized service partner with all the necessary information.

Customers must present this warranty card, inverter purchasing & Installation invoice, and other related materials as well if required.

Please fill in the required information below when your device is defective, scan and send or email it to your supplier with all the information or contact Growatt service team directly.

Please note Growatt reserve the ultimate explanation right on this warranty card.

**End User Information** 

Customer name:

Phone number:

Email:

Detailed address:

Product Information

Inverter Model:

Serial No.(S/N):

Purchase date:

Dealer/Installer:

Commissioning data:

# **Warranty Card**



Growatt New Energy Co.,Ltd

www.ginverter.com T: +86 755 2747 1942 F: +86 755 2749 1460 service@ginverter.com

#### **Growatt Factory Warranty**

For the inverter with this warranty card you purchased, you receive a Growatt factory warranty valid for 10 years from the date of installation and no more than five and a half years from the delivery date from Growatt New Energy Co.,Ltd.

#### **Warranty Exclusions**

- Breaking the product seal (opening the casing) without proper approval
- · Failure to observe the user manual, the installation guide, and the maintenance regulations
- Unauthorized Modifications, changes, or attempted repairs
- · Incorrect use or inappropriate operation
- · Insufficient ventilation of the device
- Failure to observe the applicable safety regulations
- Force majeure (e.g., lightning, over voltage, storm, fire)
- · Goods bought from one-off sales by private sellers, such as a private garage sale or school fetes
- Goods purchased at a traditional auction
- Goods purchased to be resold or transformed into a product that is on-sold
- · Services for transportation or storage of business goods, or
- Fitness for purpose of professional services provided by a qualified architect or engineer
  If you would like to purchase an extension of Growatt factory warranty based on the 5 year
  term of Growatt factory warranty, please contact Growatt to get the price and an extending
  warranty card for apply.

#### **Warranty condition**

If a device becomes defective during the agreed Growatt factory warranty period and provided that it will not be impossible or unreasonable, the device will be, as selected by Growatt:

- repaired by Growatt, or
- · repaired on-site, or
- exchanged for a replacement device of equivalent value according to model and age.

Note: UK models only provide warranty service for UK and Ireland client.

In the latter case, the remainder of the warranty entitlement will be transferred to the replacement device. In this case, you do not receive a new certificate since your entitlement is documented at Growatt.

Excessiveness in the meaning above exists in particular if the cost of the measures for Growatt would be unreasonable

 after consideration of alternative workaround possibilities that Growatt customers could revert to without significant inconvenience.





#### 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	er's referen	ce number	Growatt 30	Growatt 3000S 2019			
Micro-generator technology			Growatt 750-S , Growatt 1000-S , Growatt 1500-S , Growatt 2000-S, Growatt 2500-S, Growatt 3000-S				
Manufactur	Manufacturer name		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 2951 5888		
E-mail	yunzhong.c	ai@growatt.cor	n	Web site	www.ginverter.com		
		Connection (	Option				
Registered use separate		0.75-3	kW single	ohase, single, sp	lit or three phase system		
more than or connection of		N/A	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.

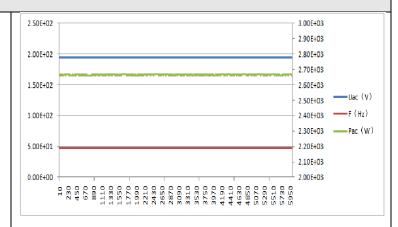


Voltage = 85% of nominal (195.5 V)

Frequency = 47.5 Hz

Power factor = 1

Period of test 90 minutes



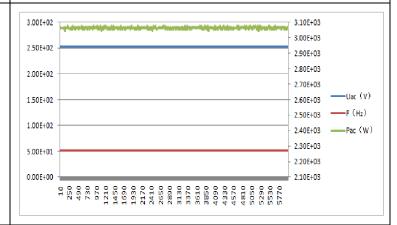
#### Test 2

Voltage = 110% of nominal (253 V).

Frequency = 51.5 Hz

Power factor = 1

Period of test 90 minutes





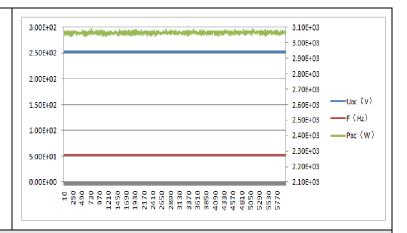


Voltage = 110% of nominal (253 V).

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-g	Micro-generator rating per phase (rpp)		3		kW		
Harmonic	Harmonic At 45-55% of Registered Capacity		100% of Registered Capacity				
	Measured Value MV in Amps	Norma lised Value (NV) in Amps	Measured Value MV Amps	in	Normali sed Value (NV) in Amps	Limit in BS EN 61000- 3-2 in Amps	Higher limit for odd harmonics 21 and above
2	0.065	0.080	0.11		0.135	1.080	
3	0.187	0.229	0.21		0.258	2.300	
4	0.027	0.033	0.04		0.049	0.430	
5	0.113	0.139	0.131		0.161	1.140	
6	0.019	0.023	0.029		0.036	0.300	
7	0.069	0.085	0.079		0.097	0.770	
8	0.007	0.009	0.009		0.011	0.230	
9	0.045	0.055	0.059		0.072	0.400	
10	0.005	0.006	0.019		0.023	0.184	
11	0.027	0.033	0.049		0.060	0.330	



	I	Т	T	1	1	
12	0.007	0.009	0.009	0.011	0.153	
13	0.007	0.009	0.051	0.063	0.210	
14	0.007	0.009	0.021	0.026	0.131	
15	0.008	0.010	0.031	0.038	0.150	
16	0.008	0.010	0.021	0.026	0.115	
17	0.017	0.021	0.049	0.060	0.132	
18	0.007	0.009	0.019	0.023	0.102	
19	0.027	0.033	0.049	0.060	0.118	
20	0.007	0.009	0.019	0.023	0.092	
21	0.037	0.045	0.069	0.085	0.107	0.160
22	0.017	0.021	0.019	0.023	0.084	
23	0.027	0.033	0.059	0.072	0.098	0.147
24	0.007	0.009	0.029	0.036	0.077	
25	0.037	0.045	0.059	0.072	0.090	0.135
26	0.007	0.009	0.009	0.011	0.071	
27	0.027	0.033	0.037	0.045	0.083	0.124
28	0.007	0.009	0.007	0.009	0.066	
29	0.038	0.047	0.049	0.060	0.078	0.117
30	0.008	0.010	0.009	0.011	0.061	
31	0.018	0.022	0.029	0.036	0.073	0.109
32	0.007	0.009	0.017	0.021	0.058	
33	0.017	0.021	0.027	0.033	0.068	0.102
34	0.007	0.009	0.019	0.023	0.054	
35	0.017	0.021	0.029	0.036	0.064	0.096
36	0.007	0.009	0.009	0.011	0.051	
37	0.007	0.009	0.019	0.023	0.061	0.091
38	0.007	0.009	0.009	0.011	0.048	



39	0.007	0.009	0.019	0.023	0.058	0.087
40	0.008	0.010	0.011	0.013	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	1.08	0.03	0	1.08	0.25	0	0.21	0.15
Normalised to standard impedance	1.08	0.03	0	1.08	0.25	0	0.21	0.15
Normalised to required maximum impedance								
Limits set under BS EN 61000-	4%	3.3%	3.3%	4%	3.3%	3.3%	1.0	0.65



3-11							
Test Impedance	R	0.4	Ω	Х	0.25	Ω	
Standard Impedance	R	0.4	Ω	X	0.25	Ω	
Maximum Impedance	R	-	Ω	Х	-	Ω	

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

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

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		12,DEC,2018		Test end date	12,DEC,2018				
Test location Growatt R&D Test Lab									
4.Power qualit D.3.10	4.Power quality – DC injection: This test should be carried out in accordance with EN 50438 Annex D.3.10								
Test power level(3KW)	20%		50%	75%	100%				
Recorded value in Amps	15.5 mA		13.1 mA	14.8mA	15.7mA				
as % of rated	0.12%		0.1%	0.11%	0.12%				



AC current				
Limit	0.25%	0.25%	0.25%	0.25%
Test power level(2.5KW)	20%	50%	75%	100%
Recorded value in Amps	12.8 mA	11.5mA	13.1mA	12.6mA
as % of rated AC current	0.11%	0.1%	0.12%	0.11%
Limit	0.25%	0.25%	0.25%	0.25%
Test power level(2KW)	20%	50%	75%	100%
Recorded value in Amps	12.1 mA	12.5 mA	11.1mA	12.4mA
as % of rated AC current	0.13%	0.12%	0.11%	0.14%
Limit	0.25%	0.25%	0.25%	0.25%
Test power level(1.5KW)	20%	50%	75%	100%
Recorded value in Amps	11.2mA	11.5 mA	11.3mA	12.1mA
as % of rated AC current	0.17%	0.7%	0.17%	0.18%
Limit	0.25%	0.25%	0.25%	0.25%
Test power level(1KW)	20%	50%	75%	100%
Recorded value in Amps	7.5mA	7.8mA	7.5mA	8.1mA



AC current	0.17%		0.17%	0.17%	0.18%
Limit	0.25%	0.25%		0.25%	0.25%
Test power level(0.75KW)	20%		50%	75%	100%
Recorded value in Amps	6.3 mA		6.7 mA	6.1mA	6.5mA
as % of rated AC current	0.19%		0.21%	0.19%	0.20%
Limit	0.25%	1	0.25%	0.25%	0.25%
	h nomin				out in accordance with EN 50548 Anne be maintained within ±1.5% of the state
	test.				
-	test.	216.2	V	230 V	253 V
20% of Regis		0.9918			
20% of Regis	stered	-	32	230 V	253 V
20% of Registance Capacity	stered	0.9918	32 45	230 V 0.99038	253 V 0.98096
20% of Regist Capacity  50% of Regist Capacity  75% of Regist	stered stered stered	0.9918	32 45 13	230 V 0.99038 0.99799	253 V 0.98096 0.99777

## **6.Protection – Frequency tests:** These tests should be carried out in accordance with EN 50438 Annex D.2.4 and the notes in EREC G98 Annex A1 A.1.2.3 (**Inverter** connected) or Annex A2 A.2.2.3 (Synchronous)

Function	Setting		Trip test		"No trip tests"		
	Frequency Time delay		Frequency	Time delay	Frequency /time	Confirm no trip	
U/F stage	47.5 Hz	20 s	47.51Hz	20.04s	47.7 Hz	No Trip	



1					25 s	
U/F stage 2	47 Hz	0.5 s	47.01Hz	0.52s	47.2 Hz 19.98 s	No Trip
					46.8 Hz 0.48 s	No Trip
O/F stage	52 Hz	0.5 s	52.0Hz	0.988s	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 2.655s		188 V 3.50 s	No Trip	
					180 V 2.48 s	No Trip	
O/V stage 1	262.2 V	1.0 s	262.78V	1.052s	258.2 V 2.0 s	No Trip	
O/V stage 2	273.7 V	0.5 s	274V	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%
------------	-----	-----	------	-----	-----	------



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	0.29s	0.34s	0.31s	0.32s	0.31s	0.30s			
For Multi phase <b>N</b> single fuse as well			at the device s	huts down cor	rectly after the	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	105% of Registered Capacity	105% of Registered Capacity	105% of Registered Capacity			
Trip time. Ph1 fuse removed	/	/	/	/	/	1			
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	/	/	/	/	/	1			
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 technolo establishing that to 1.0 s for these tec	he trip occurre								
Indicate additional shut down time included in above results.  0.3ms									
For <b>Inverters</b> test table.	ed to BS EN 6	2116 the follo	wing sub set o	of tests should	be recorded in	n 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 0.3	1s	0.31s	0.30s	6	0.34s		0.29s	0.29s
9.Protection - Freque accordance with EREC								
		Start Frequency		Change		firm n	o trip	
Positive Vector Shift	49	.0 Hz	+50 de	egrees	No 7	Ггір		
Negative Vector Shift	50	.0 Hz	- 50 de	egrees	No 7	Ггір		
10.Protection – Freq 11.3, test procedure in								
Ramp range	Те	st frequency rar	mp:	Test D	uration	Con	firm no trip	
49.0 Hz to 51.0 Hz	+0	.95 Hzs <sup>-1</sup>		2.1 s		No	Ггір	
51.0 Hz to 49.0 Hz	-0.	95 Hzs <sup>-1</sup>		2.1 s		No	Trip	
11.Limited Frequency accordance with EN 50 out using the specific th	438 An	nex D.3.3 Powe	r respo	nse to o	ver- freq	uency		
Test sequence at Registered Capacity >80%		Measured Active Power Dutput	Freq	uency	Primary Po		er Source	Active Power Gradient
Step a) 50.00 Hz ±0.01	Hz 3	3001.32W	50.0	02Hz	3016.03W			-
Step b) 50.45 Hz ±0.05	Hz 2	2968.71W	50.4	51Hz				-
Step c) 50.70 Hz ±0.10	Hz 2	2818.73W	50.7	Ήz				-
Step d) 51.15 Hz ±0.05	Hz 2	2550.85W	50.1	52Hz				-
Step e) 50.70 Hz ±0.10	Hz 2	2818.35W	50.7	01Hz				-
Step f) 50.45 Hz ±0.05	Hz 2	2968.43W	50.4	51Hz				-
Step g) 50.00 Hz ±0.01	Hz 3	3002.59W	50.0	01Hz				
Test sequence at Registered Capacity 4 - 60%	10% A	Measured Active Power Output	Freq	uency	Primary Power Source		er Source	Active Power Gradient
Step a) 50.00 Hz ±0.01	Hz 1	502.12W	50H	Z	1513.3	37W		-
Step b) 50.45 Hz ±0.05	Hz 1	485.7W	50.4	51Hz				-
Step c) 50.70 Hz ±0.10	Hz 1	410.13W	50.7	01Hz	-		-	



									0,	
Step d) 51.	15 Hz ±0.05 Hz	12	70.2W		51.15	1Hz				-
Step e) 50.	70 Hz ±0.10 Hz	14	410.38W		50.70	1Hz				-
Step f) 50.45 Hz ±0.05 Hz		485.41W		50.45	Hz				-	
Step g) 50.00 Hz ±0.01 Hz		15	05.13W		50Hz					
Steps as de				L						
	output with fall ex D.3.2 active p						ıld be	carried	out in acc	cordance with EN
Test sequence			Measured Power Ou		Active t	Frequency		Primary	power source	
Test a) 50	Hz ± 0.01 Hz		3032.02 V	٧		49.999	) Hz		3253.08	W
Test b) Point between 49.5 Hz and 49.6 Hz		5 Hz	3038.58 W		49.551 Hz		3260.83 W			
Test c) Point between 47.5 Hz and 47.6 Hz			2910.21 W			47.552 Hz		3188.49 W		
NOTE: The	e operating point	in Tes	st (b) and (d	c) sł	nall be r	naintain	ed for	at least	5 minutes	
13.Re-con	nection timer.									
	d prove that the						a minir	num del	ay of 20 s	for restoration of
				no reconnection when voltage or frequency is brough stage 1 limits of table 2.					ency is brought to	
20s	20s		At 266.2	2 V	At 196	6.1V At 47.4 H		47.4 Hz	<u>z</u>	At 52.1 Hz
Confirmation that the Microgenerator does not re-connect.			Yes Yes		Yes		es		Yes	
	evel contribution							ordance	with ERE	C G98 Annex A1
For machin	tic output For II			For Inv	or Inverter output					
Parameter	Parameter		Symbol	Va	alue	Time fault	afte	r Volts	<b>i</b>	Amps
Peak Short	t Circuit current		$i_p$	/		20 ms		81.2	V	29.3A
Initial Value	e of aperiodic cu	rent	Α	/		100 m	S	77.3	V	22.5A
Initial symn	Initial symmetrical short-circuit			<i>I<sub>k</sub></i> /		250 ms		76.9	V	16.1A



current*									
Decaying (aperiodic) component of short circuit current*	i <sub>DC</sub>	/	500 ms	73.5V	8.	6A			
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>				oduce a 0 s -	- 2 s pl	ot of the shor			
* Values for these parameters shenable interpolation of the plot	nould be p	provided	where the short ci	rcuit duration	is suff	iciently long to			
15.Logic Interface.						Yes			
This equipment is equipped with RJ45 terminal for logic interface that being receive the signal from the DNO, the connection should be installed per installation manual, and the signal should be a simple binary output that captured by RJ45 terminal (PIN 5 and for detecting the signal). Once the signal actived, the inverter will reduce its active power to zero within 5s.									
<b>16.Self-Monitoring solid state</b> EREC G98 Annex A1 A.1.3.6 (In			pecified test requir	rements. Re	efer 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									