

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		LXP-3K Hybrid,LXP-3.6K Hybrid	
Micro-generator technology		Hybrid Inverter	
Manufacturer name		Shenzhen Lux Power TechnologyCo.,Ltd	
Address		403, Building 63, Zhongwu Community New Industrial Park, Hangcheng Street, Baoan District, Shenzhen, Guangdong ,Province, China.	
Tel	+86 755 8520 9056	Fax	
E-mail	service@luxpowertek.com	Web site	www.luxpowertek.com
Registered Capacity , use separate sheet if more than one connection option.	Connection Option		
	3-3.6	kW single phase, single, split or three phase system	
	NA	kW three phase	
	NA	kW two phases in three phase system	
	NA	kW two phases 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	<i>James Wang</i>	On behalf of	Shenzhen Lux Power Technology Co.,Ltd

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.

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.

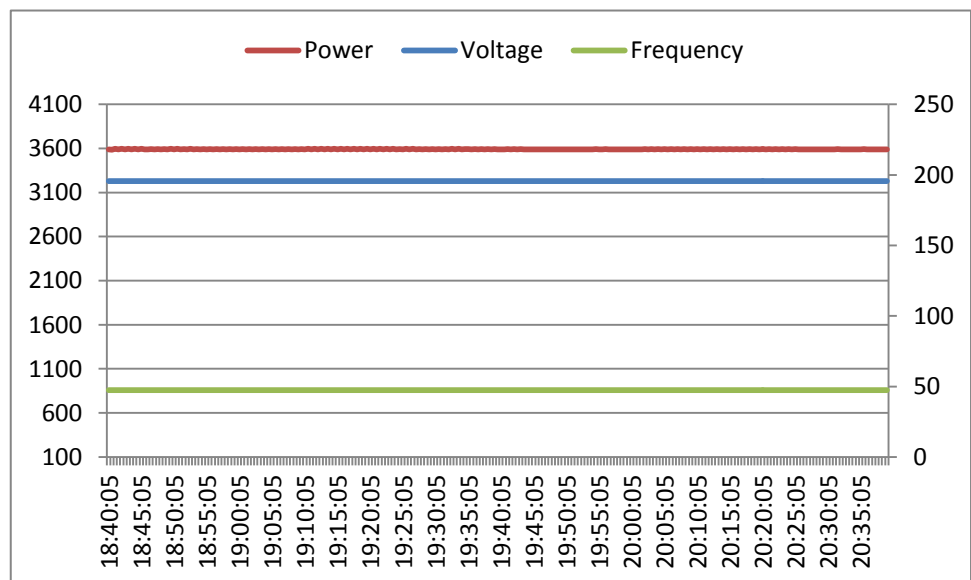
Test 1

Voltage = 85% of nominal
(195.5 V)

Frequency = 47.5 Hz

Power factor = 1

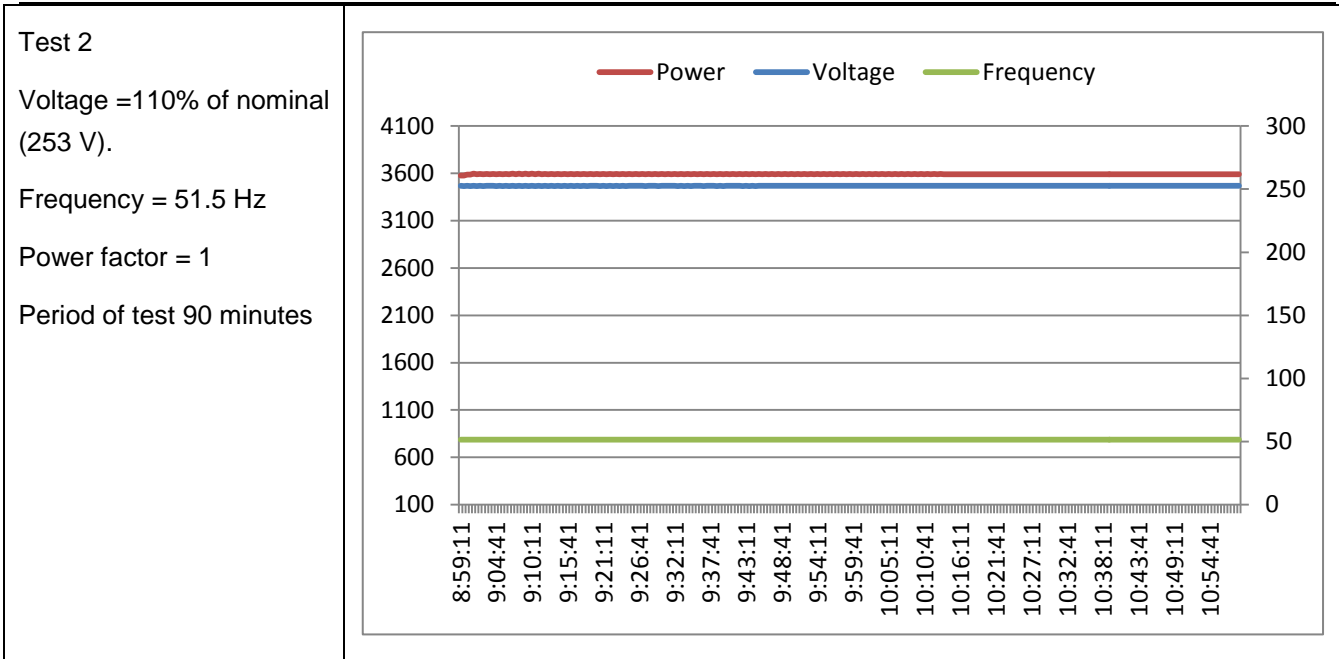
Period of test 90 minutes



Connection: always connected

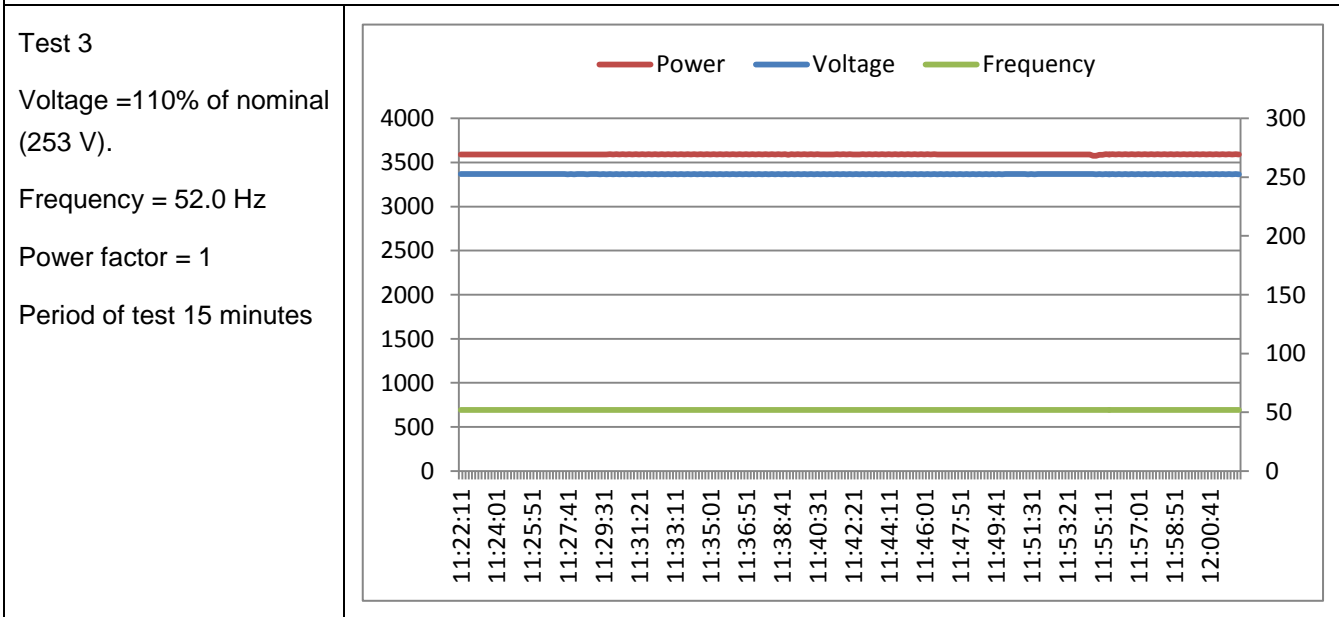
Limit: always connected

Declaration



Connection: always connected

Limit: always connected



Connection: always connected

Limit: always connected

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).

Declaration



Micro-generator tested to BS EN 61000-3-2						
Micro-generator rating per phase (rpp)			3.6	kW		
Harmonic	At 45-55% of Registered Capacity		100% of Registered 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	0.039	0.50	0.033	0.42	1.080	
3	0.046	0.59	0.110	1.41	2.300	
4	0.120	1.53	0.091	1.16	0.430	
5	0.062	0.79	0.162	2.07	1.140	
6	0.032	0.41	0.047	0.60	0.300	
7	0.084	1.07	0.163	2.08	0.770	
8	0.021	0.27	0.025	0.32	0.230	
9	0.025	0.32	0.043	0.55	0.400	
10	0.038	0.49	0.033	0.42	0.184	
11	0.019	0.24	0.043	0.55	0.330	
12	0.012	0.15	0.014	0.18	0.153	
13	0.027	0.35	0.048	0.61	0.210	
14	0.012	0.15	0.013	0.17	0.131	
15	0.019	0.24	0.026	0.33	0.150	
16	0.009	0.12	0.017	0.22	0.115	
17	0.015	0.19	0.029	0.37	0.132	

Declaration



18	0.012	0.15	0.010	0.13	0.102	
19	0.010	0.13	0.007	0.09	0.118	
20	0.009	0.12	0.008	0.10	0.092	
21	0.006	0.08	0.007	0.09	0.107	0.160
22	0.008	0.10	0.008	0.10	0.084	
23	0.007	0.09	0.009	0.12	0.098	0.147
24	0.005	0.06	0.010	0.13	0.077	
25	0.006	0.08	0.011	0.14	0.090	0.135
26	0.004	0.05	0.010	0.13	0.071	
27	0.005	0.06	0.006	0.08	0.083	0.124
28	0.005	0.06	0.009	0.12	0.066	
29	0.004	0.05	0.004	0.05	0.078	0.117
30	0.007	0.09	0.004	0.05	0.061	
31	0.003	0.04	0.009	0.12	0.073	0.109
32	0.004	0.05	0.005	0.06	0.058	
33	0.008	0.10	0.012	0.15	0.068	0.102
34	0.003	0.04	0.006	0.08	0.054	
35	0.005	0.06	0.003	0.04	0.064	0.096
36	0.003	0.04	0.003	0.04	0.051	
37	0.003	0.04	0.004	0.05	0.061	0.091
38	0.003	0.04	0.003	0.04	0.048	
39	0.003	0.04	0.002	0.03	0.058	0.087
40	0.003	0.04	0.002	0.03	0.046	

Note the higher limits for odd harmonics 21 and above are only allowable under certain conditions, if these higher

Declaration

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.

Micro-generator rating per phase (rpp)		3.0	kW			
Harmonic	At 45-55% of Registered Capacity		100% of Registered 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	0.0089	0.0091	0.0324	0.0331	1.080	
3	0.1494	0.1527	0.2894	0.2958	2.300	
4	0.0719	0.0735	0.09	0.092	0.430	
5	0.0921	0.0941	0.0948	0.0969	1.140	
6	0.0234	0.0239	0.0248	0.0254	0.300	
7	0.0377	0.0385	0.0245	0.025	0.770	
8	0.0129	0.0132	0.0134	0.0137	0.230	
9	0.0614	0.0628	0.0711	0.0727	0.400	
10	0.009	0.0092	0.0065	0.0066	0.184	
11	0.0505	0.0516	0.0638	0.0652	0.330	
12	0.0082	0.0084	0.0055	0.0056	0.153	
13	0.0281	0.0287	0.0196	0.02	0.210	
14	0.0064	0.0065	0.0059	0.006	0.131	
15	0.0435	0.0445	0.054	0.0552	0.150	
16	0.0063	0.0064	0.0043	0.0044	0.115	
17	0.0188	0.0192	0.0324	0.0331	0.132	
18	0.0045	0.0046	0.0126	0.0129	0.102	

Declaration



19	0.0227	0.0232	0.005	0.0051	0.118	
20	0.005	0.0051	0.0309	0.0316	0.092	
21	0.018	0.0184	0.0065	0.0066	0.107	0.160
22	0.0043	0.0044	0.0201	0.0205	0.084	
23	0.0089	0.0091	0.0047	0.0048	0.098	0.147
24	0.0035	0.0036	0.0113	0.0116	0.077	
25	0.0164	0.0168	0.0062	0.0063	0.090	0.135
26	0.0027	0.0028	0.0232	0.0237	0.071	
27	0.0073	0.0075	0.0049	0.005	0.083	0.124
28	0.004	0.0041	0.0045	0.0046	0.066	
29	0.0121	0.0124	0.0038	0.0039	0.078	0.117
30	0.0032	0.0033	0.0162	0.0166	0.061	
31	0.0099	0.0101	0.0029	0.003	0.073	0.109
32	0.0024	0.0025	0.0113	0.0116	0.058	
33	0.0079	0.0081	0.0034	0.0035	0.068	0.102
34	0.0024	0.0025	0.0103	0.0105	0.054	
35	0.011	0.0112	0.003	0.0031	0.064	0.096
36	0.0023	0.0024	0.0113	0.0116	0.051	
37	0.0048	0.0049	0.0031	0.0032	0.061	0.091
38	0.0048	0.0049	0.0032	0.0033	0.048	
39	0.0023	0.0024	0.0022	0.0022	0.058	0.087
40	0.008	0.0082	0.0103	0.0105	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.

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).

Test: LXP 3.6K hybrid								
	Starting			Stopping			Running	
	d max	d c	d(t)	d max	d c	d(t)	P _{st}	P _{ft} 2 hours
Measured Values at test impedance	0.96	0.15	0	1.07	0.16	0	0,19	0.2
Normalised to standard impedance	0.96	0.15	0	1.07	0.16	0	0,19	0.2
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	X	0.25	Ω		
Standard Impedance	R	0.4	Ω	X	0.25	Ω		
Maximum Impedance	R	–	Ω	X	–	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 Ω

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.

Declaration

Three phase units reference source resistance is 0.24 Ω.

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.

The tests had been performed on the LXP-3.6K hybrid are valid for the LXP-3K hybrid since it is same as in hardware and just power derated by software.

Test start date	20 July 2020	Test end date	23 July 2020
Test location	Luxpower testing laboratory& Intertek Testing Services Shenzhen Ltd. Guangzhou Branch		

Power quality – DC injection: This test should be carried out in accordance with EN 50438 Annex D.3.10

Test: LXP-3K Hybrid

Test power level	20%	50%	75%	100%
Recorded value in Amps	0.013	0.009	0.011	0.011
as % of rated AC current	0.099%	0.069%	0.084%	0.084%
Limit	0.25%	0.25%	0.25%	0.25%

Test: LXP-3.6K Hybrid

Test power level	20%	50%	75%	100%
Recorded value in Amps	0,01 A	0,011A	-0,009 A	0,011 A
as % of rated AC current	0,06%	0,07%	-0,05%	0,07%
Limit	0.25%	0.25%	0.25%	0.25%

Declaration

Power Quality – Power factor: This test shall be carried out in accordance with EN 50538 Annex D.3.4.1 but with nominal voltage -6% and +10%. Voltage to be maintained within $\pm 1.5\%$ of the stated level during the test.

Test: LXP-3K Hybrid			
	216.2 V	230 V	253 V
20% of Registered Capacity	0.9912	0.9905	0.9896
50% of Registered Capacity	0.9965	0.9962	0.9959
75% of Registered Capacity	0.9978	0.9973	0.997
100% of Registered Capacity	0.9983	0.998	0.9968
Limit	>0.95	>0.95	>0.95
Test: LXP-3.6K Hybrid			
	216.2 V	230 V	253 V
20% of Registered Capacity	0.9942	0.9935	0.9931
50% of Registered Capacity	0.9984	0.9980	0.9975
75% of Registered Capacity	0.999	0.9983	0.9979
100% of Registered Capacity	0.999	0.9985	0.9981
Limit	>0.95	>0.95	>0.95

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 1	47.5 Hz	20 s	47.48 Hz	20.1 s	47.7 Hz 25 s	No trip
U/F stage	47 Hz	0.5 s	47 Hz	0.526 s	47.2 Hz	No trip

Declaration



2					19.98 s	
					46.8 Hz 0.48 s	No trip
O/F stage 1	52 Hz	0.5 s	52.01 Hz	0.518 s	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 ± 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.

The tests had been performed on the LXP-3.6K hybrid are valid for the LXP-3K hybrid since it is same as in hardware and just power derated by software.

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 V	2.59 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	262.5 V	1.17 s	258.2 V 2.0 s	No trip
O/V stage 2	273.7 V	0.5 s	274 V	0.548 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.

The tests had been performed on the LXP-3.6K hybrid are valid for the LXP-3K hybrid since it is same as in

Declaration

hardware and just power derated by software.

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	0.22 s	0.25 s	0.26 s	0.24 s	0.27 s	0.24 s

For Multi phase **Micro-generators** confirm that the device shuts down correctly after the removal of a single fuse as well as operation of all phases.

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	NA	NA	NA	NA	NA	NA
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	NA	NA	NA	NA	NA	NA
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	NA	NA	NA	NA	NA	NA

Declaration

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.

Indicate additional shut down time included in above results. 850 ms

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% P Test 5	33% +5% Q Test 31	66% +5% Q Test 21	100% +5% P Test 10
Trip time. Limit is 0.5 s	0.28 s	0.30 s	0.27 s	0.27 s	0.28 s	0.27 s

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).

	Start Frequency	Change	Confirm no trip
Positive Vector Shift	49.0 Hz	+50 degrees	No trip
Negative Vector Shift	50.0 Hz	- 50 degrees	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	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

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: LXP-3K Hybrid

Test sequence at Registered	Measured Active Power	Frequency	Primary Power Source	Active Power
-----------------------------	-----------------------	-----------	----------------------	--------------

Declaration

Capacity >80%	Output			Gradient
Step a) 50.00 Hz \pm 0.01 Hz	3008	50	NA	-
Step b) 50.45 Hz \pm 0.05 Hz	2969.2	50.45		-
Step c) 50.70 Hz \pm 0.10 Hz	2815.5	50.70		-
Step d) 51.15 Hz \pm 0.05 Hz	2545	51.15		
Step e) 50.70 Hz \pm 0.10 Hz	2828	50.70		-
Step f) 50.45 Hz \pm 0.05 Hz	2969.5	50.45		-
Step g) 50.00 Hz \pm 0.01 Hz	3005	50		
Test sequence at Registered Capacity 40% - 60%	Measured Active Power Output	Frequency	Primary Power Source	Active Power Gradient
Step a) 50.00 Hz \pm 0.01 Hz	1505	50	NA	-
Step b) 50.45 Hz \pm 0.05 Hz	1484	50.45		-
Step c) 50.70 Hz \pm 0.10 Hz	1412	50.70		-
Step d) 51.15 Hz \pm 0.05 Hz	1265	51.15		-
Step e) 50.70 Hz \pm 0.10 Hz	1415	50.70		-
Step f) 50.45 Hz \pm 0.05 Hz	1485	50.45		-
Step g) 50.00 Hz \pm 0.01 Hz	1507	50		-
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 \pm 0.01 Hz	2912	50	NA	
Test b) Point between 49.5 Hz and 49.6 Hz	2914	49.6	NA	

Declaration

Test c) Point between 47.5 Hz and 47.6 Hz	2915	47.6	NA	
NOTE: The operating point in Test (b) and (c) shall be maintained for at least 5 minutes				
Test: LXP-3.6K Hybrid				
Test sequence at Registered Capacity >80%	Measured Active Power Output	Frequency	Primary Power Source	Active Power Gradient
Step a) 50.00 Hz \pm 0.01 Hz	3605	50	3689	-
Step b) 50.45 Hz \pm 0.05 Hz	3562	50.45		-
Step c) 50.70 Hz \pm 0.10 Hz	3372	50.70		-
Step d) 51.15 Hz \pm 0.05 Hz	3041	51.15		-
Step e) 50.70 Hz \pm 0.10 Hz	3380	50.70		-
Step f) 50.45 Hz \pm 0.05 Hz	3562	50.45		-
Step g) 50.00 Hz \pm 0.01 Hz	3607	50		-
Test sequence at Registered Capacity 40% - 60%	Measured Active Power Output	Frequency	Primary Power Source	Active Power Gradient
Step a) 50.00 Hz \pm 0.01 Hz	1803	50	1851	-
Step b) 50.45 Hz \pm 0.05 Hz	1783	50.45		-
Step c) 50.70 Hz \pm 0.10 Hz	1692	50.70		-
Step d) 51.15 Hz \pm 0.05 Hz	1528	51.15		-
Step e) 50.70 Hz \pm 0.10 Hz	1698	50.70		-
Step f) 50.45 Hz \pm 0.05 Hz	1782	50.45		-
Step g) 50.00 Hz \pm 0.01 Hz	1803	50		-
Steps as defined in EN 50438				
Power output with falling frequency test: This test should be carried out in accordance with EN 50438 Annex				

Declaration

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	3495	50	3599
Test b) Point between 49.5 Hz and 49.6 Hz	3495	49.6	3601
Test c) Point between 47.5 Hz and 47.6 Hz	3494	47.6	3602

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.						
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	28		At 266.2 V	At 196.1 V	At 47.4 Hz	At 52.1 Hz
Confirmation that the Micro-generator does not re-connect.			No reconnection	No reconnection	No reconnection	No reconnection
The tests had been performed on the LXP-3.6K hybrid are valid for the LXP-3K hybrid since it is same as in hardware and just power derated by software.						

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-magnetic output			For Inverter output			
Parameter	Symbol	Value	Time after fault	Volts	Amps	
Peak Short Circuit current	i_p	NA	20 ms	162.5	23.2	

Declaration

Initial Value of aperiodic current	A	NA	100 ms	129.8	21.1
Initial symmetrical short-circuit current*	I_k	NA	250 ms	59.3	7.2
Decaying (aperiodic) component of short circuit current*	i_{DC}	NA	500 ms	0	3
Reactance/Resistance Ratio of source*	X/R	NA	Time to trip	0.318	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

The tests had been performed on the LXP-3.6K hybrid are valid for the LXP-3K hybrid since it is same as in hardware and just power derated by software.

Logic Interface.	Yes
Self-Monitoring solid state switching: No specified test requirements. Refer to EREC G98 Annex A1 A.1.3.6 (Inverter connected).	Yes/or 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	