

Test Report No 201127-033823-F

Pre-compliance harmonics and inter-harmonics to IEC61000-3-2:2014 Ed.4 and
IEC61000-4-7:2002 +A1:2009

Customer	Issuer
<not selected>	Name: ICERGi Limited Address: 32 Morehampton Rd Dublin Dublin 4 D04 K6N6 Ireland Date of issue: 2020-Nov-27
Unit Under Test	Reference Instrument
Manufacturer: ICERGi Description: 9A PFC Evaluation Board Model: 50056 Serial Number: xxxxxxxxxx Rated Voltage: Rated Frequency: Documentation ref: Configuration:	Manufacturer: Tektronix Description: Power Analyzer Model: PA1000 Serial Number: C020333 Firmware Version: Ver.1.3.15 Test Software: PWRVIEW ver. 3.1.0.14
Test Conditions	Test Summary
Time of Test: 2020-Nov-27 03:38:23 PM Temperature: 23°C ± 3°C Humidity: < 75%	Test Type: Class A Specified Voltage: 115.00 V Specified Frequency: 50.000 Hz Test Duration: 00:02:30 Overall Result: PASS

The measurement equipment used satisfies key requirements of IEC61000-3-2 Ed. 4.0 2014 and IEC61000-4-7 Ed. 2.1 2009 including 10 or 12 cycle no-gap power and harmonics measurements and inter-harmonic grouping.

* Results may be used to show, with a very high degree of confidence, how the equipment under test will satisfy the requirements of the standards. For certification to the standards, measurements should be made using fully compliant equipment.

Test Notes	Test Officer
<none>	Full Name: Rytis Beinarys

Signature: _____

General Results

<i>Test Value</i>	<i>Average</i>	<i>Minimum</i>	<i>Maximum</i>
Watts	1.0210 kW	1.0200 kW	1.0223 kW
Power Factor	998.31 m	998.23 m	998.43 m
Amps Fundamental	8.8286 A	8.8001 A	8.8631 A
Vrms	115.77 V	115.15 V	116.30 V
Frequency	49.850 Hz	49.836 Hz	49.865 Hz
Arms	8.8345 A	8.7977 A	8.8774 A
Vcf	1.4086	1.4048	1.4137

Harmonic Results

#	<i>Limit1</i>	<i>Limit2</i>	<i>Average</i>	<i>Maximum</i>	<i>Current Value</i>	<i>Pass/Fail</i>
2	1.0800 A	1.6200 A	81.490 mA	85.809 mA	82.172 mA	PASS
3	2.3000 A	3.4500 A	64.926 mA	66.408 mA	66.098 mA	PASS
4	53.007 mA	79.511 mA	28.946 mA	29.930 mA	29.241 mA	PASS
5	53.007 mA	79.511 mA	30.514 mA	31.956 mA	30.869 mA	PASS
6	53.007 mA	79.511 mA	23.185 mA	23.978 mA	23.643 mA	PASS
7	770.00 mA	1.1550 A	61.405 mA	62.615 mA	61.426 mA	PASS
8	53.007 mA	79.511 mA	18.170 mA	19.060 mA	18.689 mA	PASS
9	53.007 mA	79.511 mA	47.835 mA	48.998 mA	48.557 mA	PASS
10	53.007 mA	79.511 mA	15.576 mA	16.330 mA	16.182 mA	PASS
11	53.007 mA	79.511 mA	19.213 mA	20.980 mA	20.019 mA	PASS
12	53.007 mA	79.511 mA	14.655 mA	15.504 mA	15.148 mA	PASS
13	210.00 mA	315.00 mA	61.513 mA	63.050 mA	61.274 mA	PASS
14	53.007 mA	79.511 mA	10.551 mA	11.162 mA	10.579 mA	PASS
15	53.007 mA	79.511 mA	43.227 mA	45.230 mA	44.264 mA	PASS
16	53.007 mA	79.511 mA	9.3799 mA	9.9220 mA	9.8266 mA	PASS
17	53.007 mA	79.511 mA	42.665 mA	45.009 mA	43.687 mA	PASS
18	53.007 mA	79.511 mA	7.4430 mA	8.3227 mA	7.6884 mA	PASS
19	118.42 mA	177.63 mA	65.012 mA	68.160 mA	66.683 mA	PASS
20	53.007 mA	79.511 mA	6.6159 mA	7.9140 mA	7.8177 mA	PASS
21	53.007 mA	79.511 mA	50.939 mA	52.176 mA	51.913 mA	PASS
22	53.007 mA	79.511 mA	9.2832 mA	10.777 mA	8.8268 mA	PASS
23	97.826 mA	146.74 mA	64.063 mA	65.551 mA	65.081 mA	PASS
24	53.007 mA	79.511 mA	8.9283 mA	10.512 mA	9.8025 mA	PASS
25	90.000 mA	135.00 mA	65.474 mA	68.258 mA	65.455 mA	PASS
26	53.007 mA	79.511 mA	9.4472 mA	10.741 mA	9.5181 mA	PASS
27	83.333 mA	125.00 mA	51.537 mA	54.784 mA	51.775 mA	PASS
28	53.007 mA	79.511 mA	9.3490 mA	10.657 mA	10.318 mA	PASS
29	77.586 mA	116.38 mA	55.669 mA	56.339 mA	55.745 mA	PASS
30	53.007 mA	79.511 mA	10.044 mA	11.210 mA	10.732 mA	PASS
31	53.007 mA	79.511 mA	38.348 mA	40.093 mA	38.100 mA	PASS
32	53.007 mA	79.511 mA	11.359 mA	12.214 mA	12.212 mA	PASS
33	53.007 mA	79.511 mA	36.031 mA	38.641 mA	34.735 mA	PASS
34	53.007 mA	79.511 mA	10.668 mA	11.443 mA	11.307 mA	PASS
35	53.007 mA	79.511 mA	31.665 mA	32.906 mA	30.786 mA	PASS

#	<i>Limit1</i>	<i>Limit2</i>	<i>Average</i>	<i>Maximum</i>	<i>Current Value</i>	<i>Pass/Fail</i>
36	53.007 mA	79.511 mA	11.326 mA	12.051 mA	11.757 mA	PASS
37	53.007 mA	79.511 mA	16.469 mA	18.121 mA	15.136 mA	PASS
38	53.007 mA	79.511 mA	10.619 mA	11.104 mA	10.638 mA	PASS
39	53.007 mA	79.511 mA	13.153 mA	14.824 mA	12.340 mA	PASS
40	53.007 mA	79.511 mA	9.5589 mA	9.9439 mA	9.7934 mA	PASS

Harmonic Graph

