

Test Report No 201127-033121-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 03:31:21 PM Temperature: 23°C ± 3°C Humidity: < 75%	Test Type: Class A Specified Voltage: 230.00 V Specified Frequency: 50.000 Hz Test Duration: 00:02:30 Overall Result: PASS (Check Warnings)
Test Warnings	

Supplied crest factor is not within 1.4 and 1.42

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

Test Value	Average	Minimum	Maximum
Watts	2.0278 kW	2.0240 kW	2.0322 kW
Power Factor	998.79 m	998.68 m	998.85 m
Amps Fundamental	8.8183 A	8.7614 A	8.8496 A
Vrms	230.13 V	228.94 V	231.96 V
Frequency	49.845 Hz	49.834 Hz	49.853 Hz
Arms	8.8226 A	8.7537 A	8.8647 A
Vcf	1.3847	1.3827	1.3901

Harmonic Results

#	Limit1	Limit2	Average	Maximum	Current Value	Pass/Fail
2	1.0800 A	1.6200 A	51.277 mA	54.561 mA	49.523 mA	PASS
3	2.3000 A	3.4500 A	113.92 mA	115.29 mA	112.06 mA	PASS
4	52.935 mA	79.403 mA	23.065 mA	24.600 mA	22.059 mA	PASS
5	1.1400 A	1.7100 A	66.532 mA	70.054 mA	68.569 mA	PASS
6	52.935 mA	79.403 mA	17.251 mA	18.437 mA	16.833 mA	PASS
7	770.00 mA	1.1550 A	71.186 mA	75.006 mA	70.375 mA	PASS
8	52.935 mA	79.403 mA	12.667 mA	13.583 mA	12.289 mA	PASS
9	400.00 mA	600.00 mA	75.332 mA	78.382 mA	73.630 mA	PASS
10	52.935 mA	79.403 mA	8.5391 mA	9.3814 mA	8.0560 mA	PASS
11	52.935 mA	79.403 mA	24.277 mA	26.470 mA	25.817 mA	PASS
12	52.935 mA	79.403 mA	7.6756 mA	8.6175 mA	7.4523 mA	PASS
13	210.00 mA	315.00 mA	66.334 mA	68.896 mA	63.858 mA	PASS
14	52.935 mA	79.403 mA	8.5599 mA	9.4188 mA	8.0310 mA	PASS
15	150.00 mA	225.00 mA	51.279 mA	55.602 mA	51.234 mA	PASS
16	52.935 mA	79.403 mA	6.5719 mA	7.5006 mA	6.3510 mA	PASS
17	52.935 mA	79.403 mA	15.257 mA	16.316 mA	15.671 mA	PASS
18	52.935 mA	79.403 mA	6.2575 mA	6.9822 mA	5.9066 mA	PASS
19	52.935 mA	79.403 mA	41.144 mA	42.690 mA	40.241 mA	PASS
20	52.935 mA	79.403 mA	5.7272 mA	6.5736 mA	5.0720 mA	PASS
21	52.935 mA	79.403 mA	33.017 mA	36.134 mA	32.870 mA	PASS
22	52.935 mA	79.403 mA	5.5027 mA	6.6223 mA	5.5080 mA	PASS
23	52.935 mA	79.403 mA	41.435 mA	42.872 mA	41.441 mA	PASS
24	52.935 mA	79.403 mA	5.6441 mA	6.2989 mA	5.7767 mA	PASS
25	52.935 mA	79.403 mA	42.327 mA	46.503 mA	42.999 mA	PASS
26	52.935 mA	79.403 mA	6.1029 mA	6.9376 mA	5.5304 mA	PASS
27	52.935 mA	79.403 mA	29.828 mA	31.441 mA	30.006 mA	PASS
28	52.935 mA	79.403 mA	5.3806 mA	6.0318 mA	4.8002 mA	PASS
29	52.935 mA	79.403 mA	45.772 mA	47.467 mA	43.887 mA	PASS
30	52.935 mA	79.403 mA	5.7531 mA	6.5518 mA	5.5945 mA	PASS
31	52.935 mA	79.403 mA	36.017 mA	39.104 mA	36.889 mA	PASS
32	52.935 mA	79.403 mA	5.7353 mA	6.6693 mA	5.2261 mA	PASS
33	52.935 mA	79.403 mA	34.377 mA	36.395 mA	34.006 mA	PASS
34	52.935 mA	79.403 mA	6.2716 mA	7.3072 mA	5.8992 mA	PASS
35	52.935 mA	79.403 mA	43.880 mA	45.453 mA	44.087 mA	PASS

#	Limit1	Limit2	Average	Maximum	Current Value	Pass/Fail
36	52.935 mA	79.403 mA	6.5801 mA	7.3862 mA	6.3312 mA	PASS
37	52.935 mA	79.403 mA	25.496 mA	27.152 mA	25.869 mA	PASS
38	52.935 mA	79.403 mA	6.1242 mA	6.8413 mA	5.7939 mA	PASS
39	52.935 mA	79.403 mA	34.628 mA	36.970 mA	34.415 mA	PASS
40	52.935 mA	79.403 mA	6.5696 mA	7.5352 mA	5.9907 mA	PASS

Harmonic Graph

