

Harmonics – Class-C (< 25W) per Ed. 3.2 (2009)(Run time)

EUT: EH121-M350

Tested by: Takeda

Test category: Class-C per Ed. 3.2 (2009) (Japanese limits)

Test Margin: 100

Test date: 2011/05/26

Start time: 17:30

End time: 17:40

Test duration (min): 10

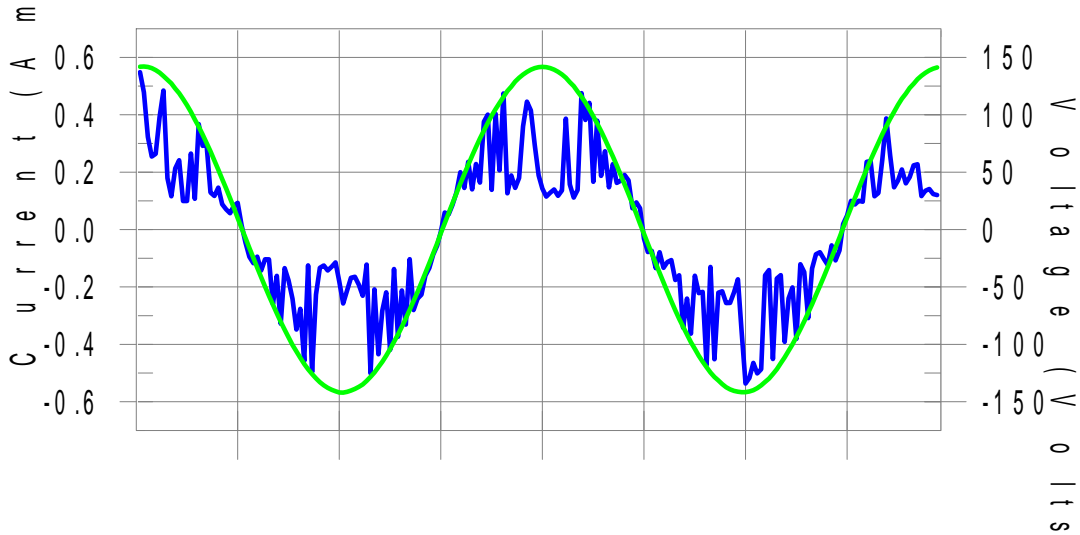
Data file name: H-002087.cts_data

Comment: AC100V50Hz

Customer: (株) 電費半分

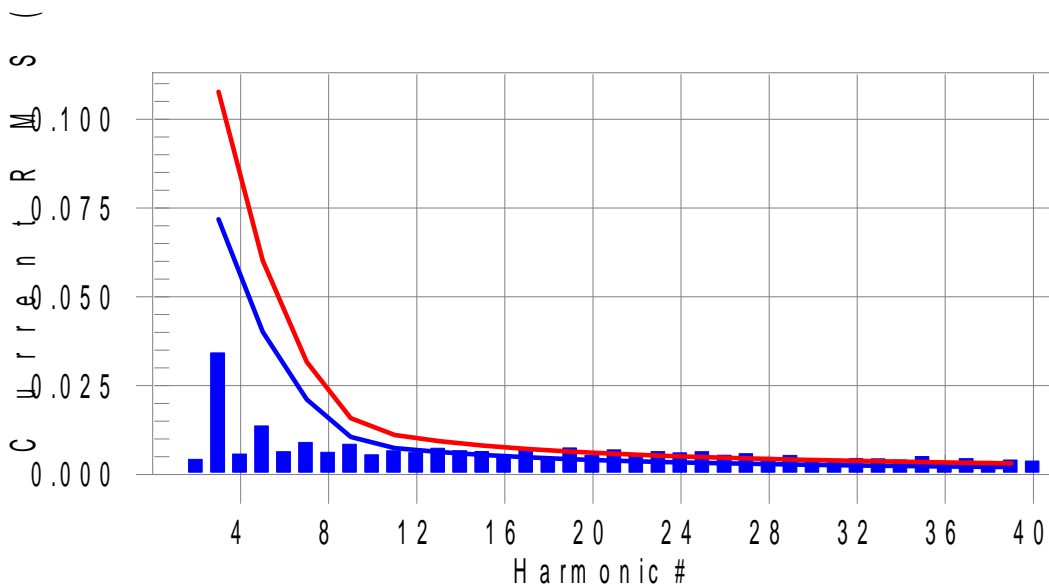
Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class C limit line (Table-3 Class-D)

Japanese Limits



Test result: Pass (H3 & H5 < limit) and waveform meets phase angle requirements.

I_pk_Max = 556.20 mA

Max_Phase_Angle = 104 degree (Pos)

I_start_lowest = 174.70 mA (Pos)

I_stop_lowest = 156.18 mA (Pos)

Current Test Result Summary (Run time)

EUT: EH121-M350 Tested by: Takeda
Test category: Class-C per Ed. 3.2 (2009) (Japanese limits) Test Margin: 100
Test date: 2011/05/26 Start time: 17:30 End time: 17:40
Test duration (min): 10 Data file name: H-002087.cts_data
Comment: AC100V50Hz
Customer: (株) 電費半分
受入日: 2011年5月23日
試験日: 2011年5月26日 小型電波暗室 (24.0°C, 52%, 1014hPa)

Test Result: Pass Source qualification: Normal
I_h3 = 0.03%(86%) I_h5 = 16.14%(61%) POHC(A): 0.000 POHC Limit(A): 0.009
Highest parameter values during test:
V_RMS (Volts): 100.26 Frequency(Hz): 50.00
I_Peak (Amps): 0.556 I_RMS (Amps): 0.237
I_Fund (Amps): 0.212 Crest Factor: 2.395
Power (Watts): 21.1 Power Factor: 0.901

Harm#	Harms(%)	100%Limit	%of Limit
3	0.03	86	0.03
5	16.14	61	26.46

Note: Dynamic limits were applied for this test (Class C < 25 Watts).

Voltage Source Verification Data (Run time)

EUT: EH121-M350
Test category: Class-C per Ed. 3.2 (2009) (Japanese limits)
Test date: 2011/05/26
Test duration (min): 10
Comment: AC100V50Hz
Customer: (株) 電費半分

Tested by: Takeda
Test Margin: 100
Start time: 17:30
End time: 17:40
Data file name: H-002087.cts_data

Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 100.26
I_Peak (Amps): 0.556
I_Fund (Amps): 0.212
Power (Watts): 21.1

Frequency(Hz): 50.00
I_RMS (Amps): 0.237
Crest Factor: 2.395
Power Factor: 0.901

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.024	0.201	11.79	OK
3	0.036	0.902	3.99	OK
4	0.015	0.201	7.34	OK
5	0.015	0.401	3.70	OK
6	0.041	0.200	20.45	OK
7	0.015	0.301	4.93	OK
8	0.014	0.200	6.98	OK
9	0.012	0.201	5.78	OK
10	0.010	0.200	4.76	OK
11	0.011	0.100	11.41	OK
12	0.016	0.100	15.49	OK
13	0.011	0.100	10.74	OK
14	0.008	0.100	8.28	OK
15	0.011	0.100	10.67	OK
16	0.008	0.100	8.40	OK
17	0.009	0.100	9.47	OK
18	0.013	0.100	12.52	OK
19	0.010	0.100	10.10	OK
20	0.007	0.100	6.63	OK
21	0.010	0.100	9.86	OK
22	0.009	0.100	8.92	OK
23	0.009	0.100	8.98	OK
24	0.009	0.100	9.02	OK
25	0.009	0.100	9.29	OK
26	0.010	0.100	9.59	OK
27	0.009	0.100	8.72	OK
28	0.008	0.100	7.52	OK
29	0.008	0.100	8.15	OK
30	0.008	0.100	7.83	OK
31	0.006	0.100	6.45	OK
32	0.006	0.100	6.07	OK
33	0.006	0.100	6.35	OK
34	0.006	0.100	6.04	OK
35	0.007	0.100	7.20	OK
36	0.006	0.100	5.55	OK
37	0.006	0.100	5.88	OK
38	0.006	0.100	6.48	OK
39	0.005	0.100	5.34	OK
40	0.005	0.100	4.81	OK