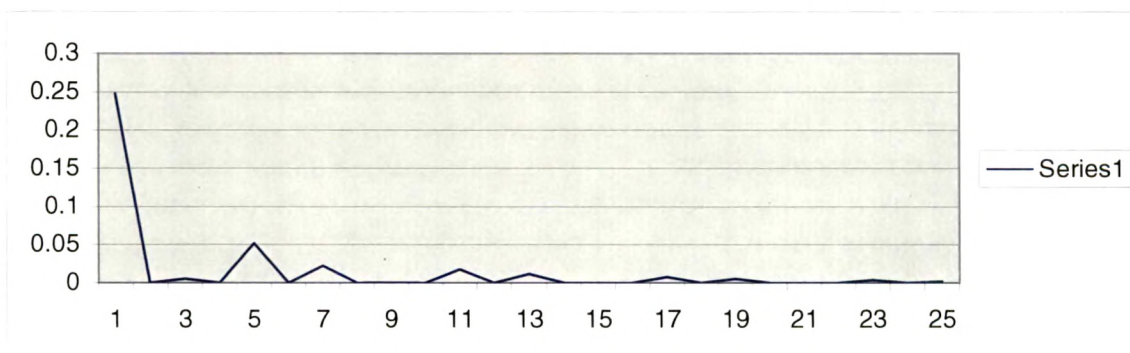


Appendix B: TEST Results and Analysis

FFT Analysis: Source Current (Fundamental Frequency = 50 Hz)

(A). WITHOUT COMPENSATION: (CT PROBE RATIO 10)

Harmonics	Voltage magnitude Volts	Voltage %
1	0.2478	100.00
2	0.0001	0.04
3	0.0054	2.18
4	0.0002	0.08
5	0.0517	20.86
6	0.0001	0.04
7	0.0228	9.20
8	0.0001	0.04
9	0.0008	0.32
10	0	0.00
11	0.018	7.26
12	0	0.00
13	0.0115	4.64
14	0	0.00
15	0.0003	0.12
16	0.0001	0.04
17	0.0079	3.19
18	0	0.00
19	0.0056	2.26
20	0	0.00
21	0.0002	0.08
22	0.0001	0.04
23	0.0035	1.41
24	0	0.00
25	0.0026	1.05
	THD%=	24.85



(B). WITH COMPENSATION: (CT PROBE RATIO 10)

Harmonics	Voltage magnitude Volts	Voltage %
1	0.2554	100.00
2	0.0035	1.37
3	0.0046	1.80
4	0.0014	0.55
5	0.0136	5.32
6	0.0019	0.74
7	0.0058	2.27
8	0.0025	0.98
9	0.0004	0.16
10	0.0015	0.59
11	0.0051	2.00
12	0.0006	0.23
13	0.0014	0.55
14	0.0008	0.31
15	0.0024	0.94
16	0.0011	0.43
17	0.0027	1.06
18	0.0005	0.20
19	0.0008	0.31
20	0.0007	0.27
21	0.0013	0.51
22	0.0003	0.129
23	0.0028	1.10
24	0.0005	0.20
25	0.0006	0.23
THD%=		7.02

