



Figure 10 is a line graph showing the relationship between switching cycles (multiplied by 10⁶) and kVA for two different conditions: AC-1 and Cos φ 0.4. The x-axis represents kVA, ranging from 0.5 to 2.5. The y-axis represents switching cycles x 10⁶, ranging from 0.1 to 10 on a logarithmic scale. The AC-1 curve (black line) starts at approximately 6.5 x 10⁶ cycles at 0.5 kVA and decreases to about 0.5 x 10⁶ cycles at 2.5 kVA. The Cos φ 0.4 curve (blue line) starts at approximately 3.5 x 10⁶ cycles at 0.5 kVA and decreases to about 0.3 x 10⁶ cycles at 2.5 kVA.

kVA	AC-1 (switching cycles x 10 ⁶)	Cos φ 0.4 (switching cycles x 10 ⁶)
0.5	6.5	3.5
1.0	2.5	1.2
1.5	1.2	0.7
2.0	0.8	0.5
2.5	0.5	0.3

Graph showing current (Amps) versus time (ms) for a 100 ohm load. The y-axis is logarithmic (Amps), and the x-axis is linear (ms). The curves represent the current decay for DC-1 (black) and L/R 40 ms (red).

Time (ms)	DC-1 Current (Amps)	L/R 40 ms Current (Amps)
0	10	2.5
50	2.5	0.8
100	1.0	0.3
150	0.5	0.1
200	0.2	-

