



TEST DATA OF LDA75F-30

Regulated DC Power Supply

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Design Manager

Prepared by : *M. Fujii*
M.Fujii

Design Engineer

COSEL CO.,LTD.

COSEL

Model

LDA75F-30

Item

Input Current (by Load Current)

Object

Temperature

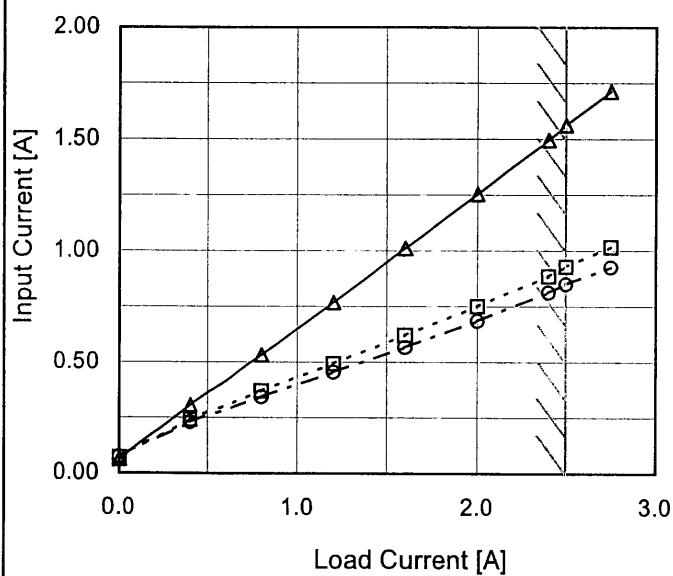
25°C

Testing Circuitry

Figure A

1.Graph

—△— Input Volt. 100V
 ---□--- Input Volt. 200V
 -·-○-·- Input Volt. 230V



2.Values

Load Current [A]	Input Current [A]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	0.063	0.070	0.073
0.40	0.308	0.241	0.230
0.80	0.533	0.370	0.344
1.20	0.768	0.494	0.455
1.60	1.011	0.622	0.568
2.00	1.255	0.752	0.685
2.40	1.496	0.887	0.813
2.50	1.563	0.929	0.851
2.75	1.713	1.017	0.927
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Model		LDA75F -30	Temperature		25°C																														
Item		Efficiency (by Input Voltage)	Testing Circuitry		Figure A																														
Object																																			
1.Graph			2.Values																																
<div><div><div><div><div></div><div></div></div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>Load 50%</div><div>Load 100%</div></div> <div><table><thead><tr><th>Input Voltage [V]</th><th>Load 50% Efficiency [%]</th><th>Load 100% Efficiency [%]</th></tr></thead><tbody><tr><td>85</td><td>84.0</td><td>84.0</td></tr><tr><td>100</td><td>84.1</td><td>85.2</td></tr><tr><td>120</td><td>83.6</td><td>85.6</td></tr><tr><td>200</td><td>78.7</td><td>83.6</td></tr><tr><td>230</td><td>76.2</td><td>82.8</td></tr><tr><td>264</td><td>73.8</td><td>81.1</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table></div> <div>Note: Slanted line shows the range of the rated input voltage.</div>			Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]	85	84.0	84.0	100	84.1	85.2	120	83.6	85.6	200	78.7	83.6	230	76.2	82.8	264	73.8	81.1	--	-	-	--	-	-	--	-	-			
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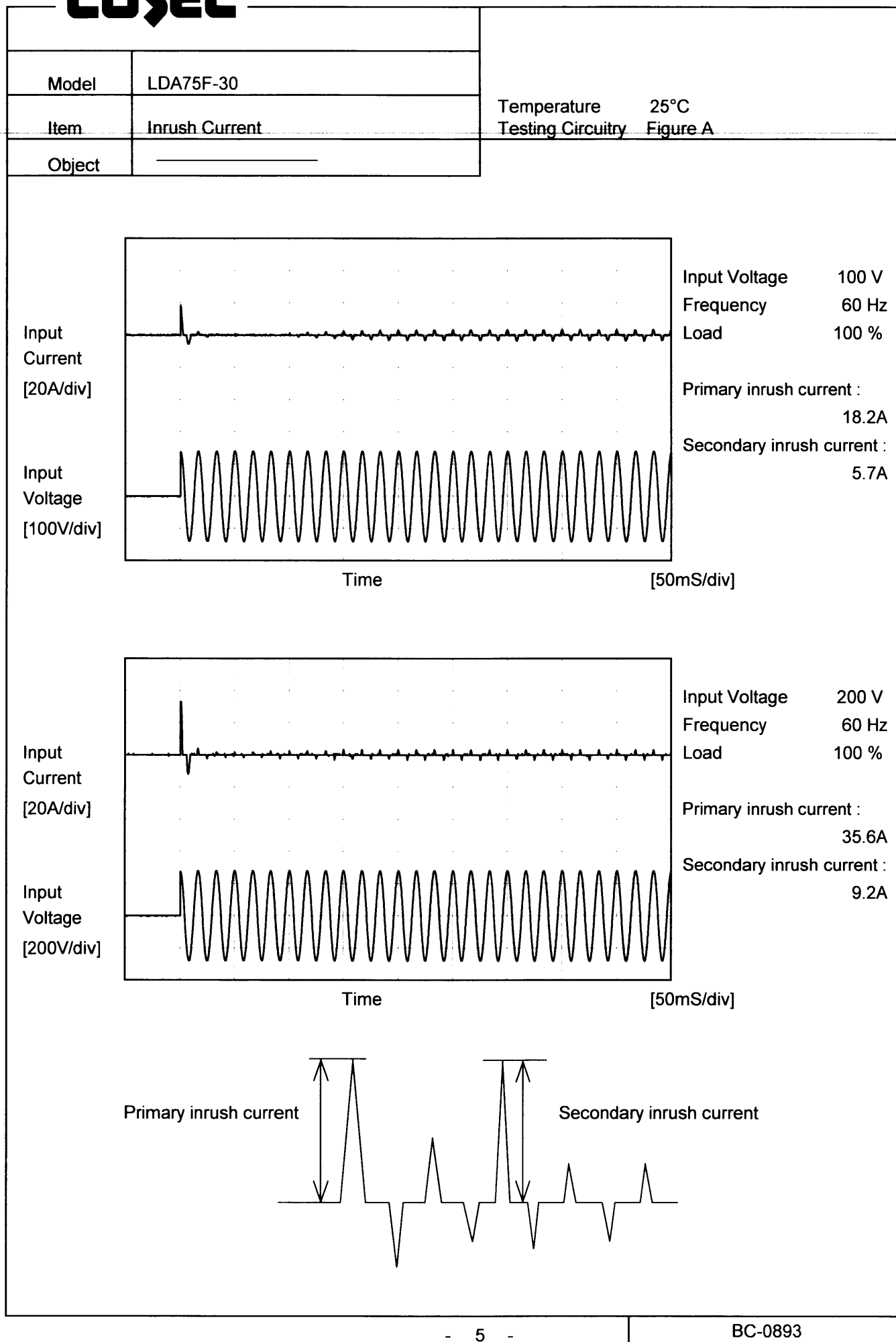
Model		LDA75F -30		Temperature 25°C																																																				
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		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.40</td><td>73.9</td><td>60.6</td><td>56.8</td></tr><tr><td>0.80</td><td>81.2</td><td>72.9</td><td>70.3</td></tr><tr><td>1.20</td><td>83.4</td><td>78.0</td><td>76.0</td></tr><tr><td>1.60</td><td>84.6</td><td>80.8</td><td>78.8</td></tr><tr><td>2.00</td><td>85.0</td><td>82.2</td><td>80.8</td></tr><tr><td>2.40</td><td>84.9</td><td>83.3</td><td>82.4</td></tr><tr><td>2.50</td><td>84.9</td><td>83.6</td><td>82.7</td></tr><tr><td>2.75</td><td>84.8</td><td>83.9</td><td>82.7</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>				Load Current [A]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	-	-	-	0.40	73.9	60.6	56.8	0.80	81.2	72.9	70.3	1.20	83.4	78.0	76.0	1.60	84.6	80.8	78.8	2.00	85.0	82.2	80.8	2.40	84.9	83.3	82.4	2.50	84.9	83.6	82.7	2.75	84.8	83.9	82.7	--	-	-	-	--	-	-	-
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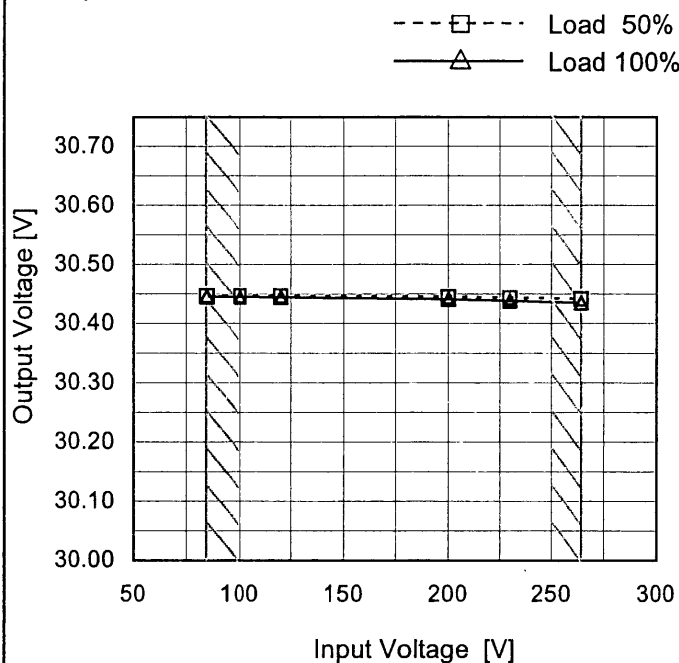
Model LDA75F-30

Item Line Regulation

Object +30V2.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

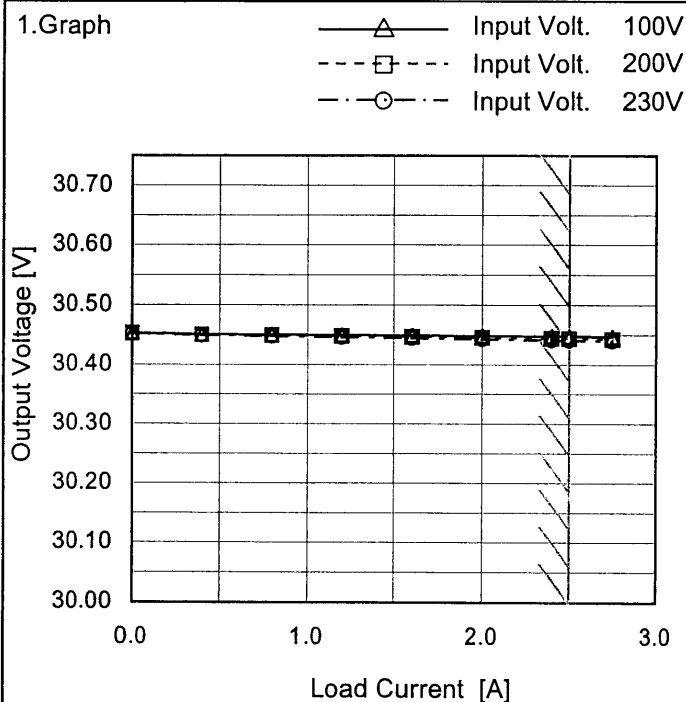
Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
85	30.447	30.446
100	30.447	30.445
120	30.447	30.445
200	30.445	30.441
230	30.444	30.439
264	30.442	30.436
--	-	-
--	-	-
--	-	-

Model LDA75F-30

Item Load Regulation

Object +30V2.5A

Temperature 25°C
Testing Circuitry Figure A



Note: Slanted line shows the range of the rated load current.

2. Values

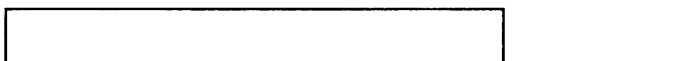
Load Current [A]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.00	30.453	30.453	30.452
0.40	30.451	30.451	30.449
0.80	30.451	30.449	30.448
1.20	30.450	30.448	30.446
1.60	30.449	30.447	30.445
2.00	30.449	30.446	30.443
2.40	30.448	30.444	30.441
2.50	30.448	30.444	30.441
2.75	30.447	30.443	30.440
--	-	-	-
--	-	-	-



Model	LDA75F-30	Temperature	25°C
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	+30V2.5A		

Input Volt. 100 V
Cycle 1000 ms

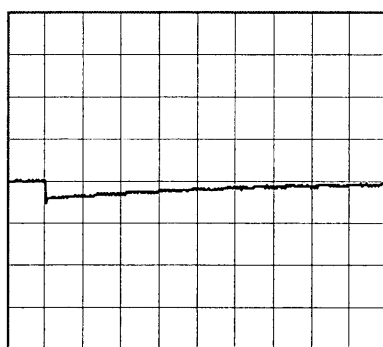
Load Current



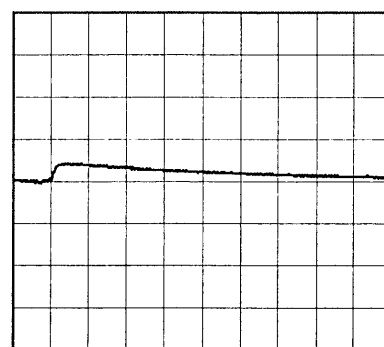
Min. Load (0A) ←→

Load 100% (2.5A)

500 mV/div



10 ms/div

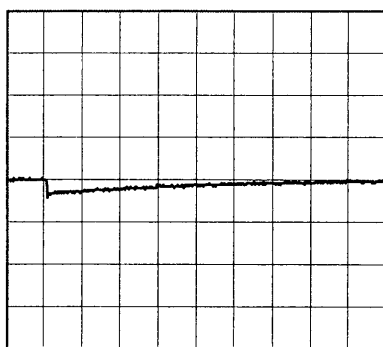


10 ms/div

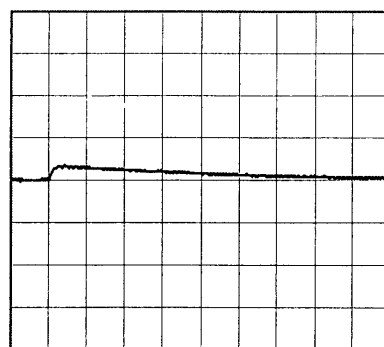
Min. Load (0A) ←→

Load 50% (1.25A)

500 mV/div



10 ms/div



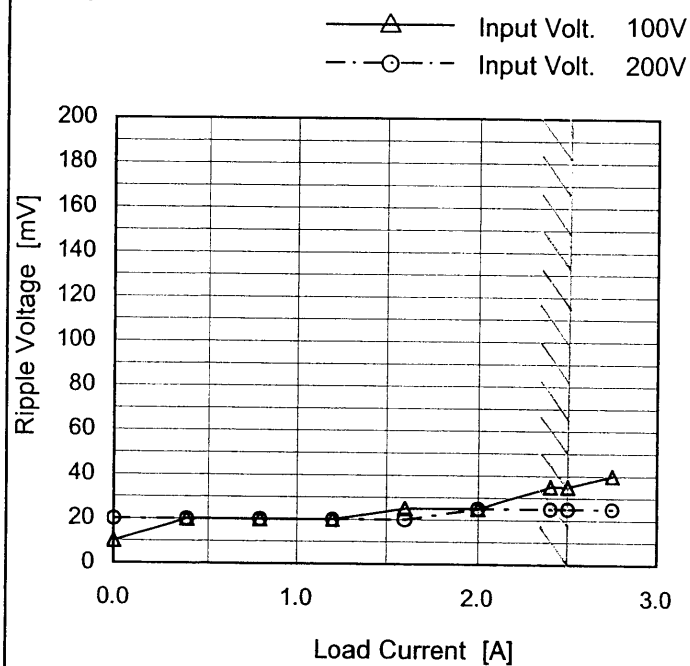
10 ms/div

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Model	LDA75F-30
Item	Ripple Voltage (by Load Current)
Object	+30V2.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



Measured by 20 MHz Oscilloscope.

Ripple Voltage is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
0.00	10	20
0.40	20	20
0.80	20	20
1.20	20	20
1.60	25	20
2.00	25	25
2.40	35	25
2.50	35	25
2.75	40	25
--	-	-
--	-	-

T1: Due to AC Input Line
T2: Due to Switching

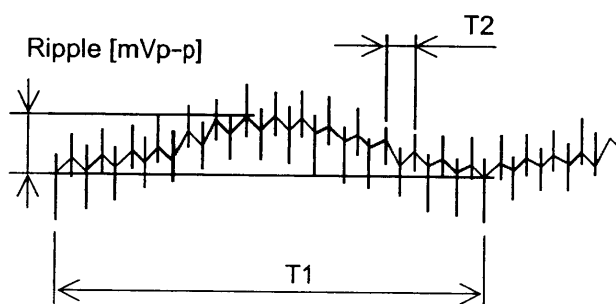


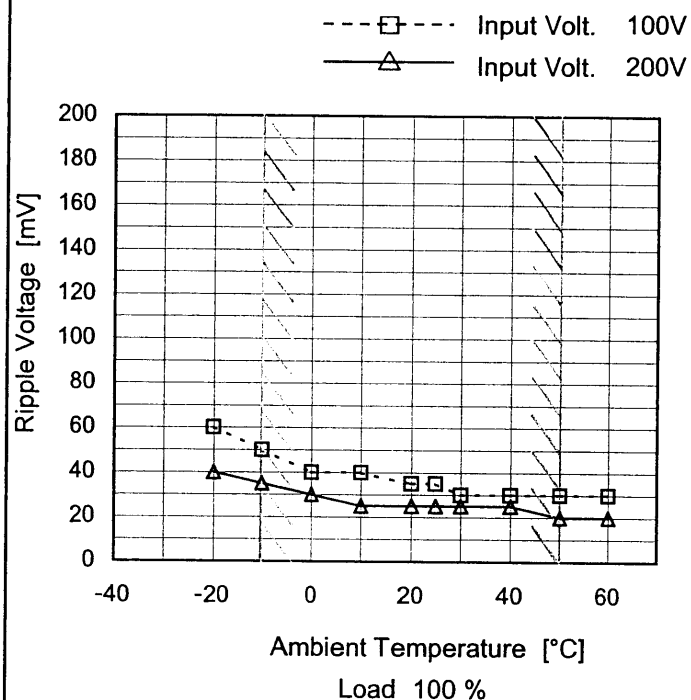
Fig. Complex Ripple Wave Form

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Model		LDA75F-30	
Item		Ripple-Noise	
Object		+30V2.5A	
1.Graph		2.Values	

Model	LDA75F-30
Item	Ripple Voltage (by Ambient Temp.)
Object	+30V2.5A

1. Graph



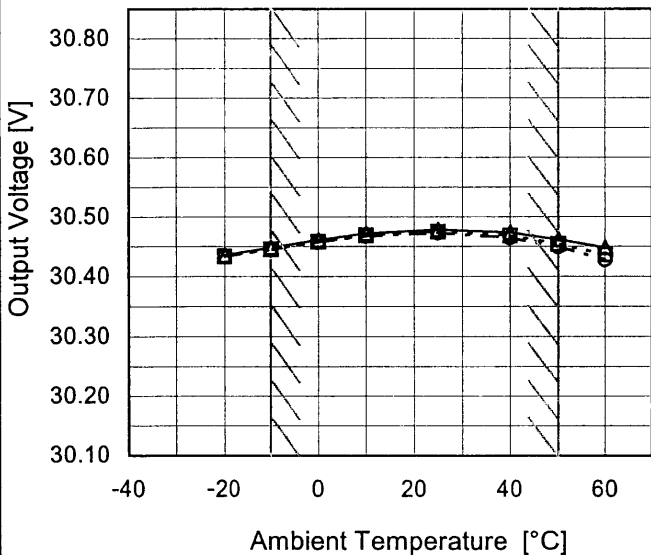
Measured by 20 MHz Oscilloscope.

Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
-20	60	40
-10	50	35
0	40	30
10	40	25
20	35	25
25	35	25
30	30	25
40	30	25
50	30	20
60	30	20
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Model		LDA75F -30																																																				
Item		Ambient Temperature Drift																																																				
Object		+30V2.5A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>---○---</div><div>Input Volt. 230V</div></div></div>  <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>-20</td><td>30.436</td><td>30.434</td><td>30.433</td></tr><tr><td>-10</td><td>30.448</td><td>30.446</td><td>30.445</td></tr><tr><td>0</td><td>30.462</td><td>30.458</td><td>30.458</td></tr><tr><td>10</td><td>30.472</td><td>30.469</td><td>30.467</td></tr><tr><td>25</td><td>30.479</td><td>30.475</td><td>30.473</td></tr><tr><td>40</td><td>30.474</td><td>30.468</td><td>30.465</td></tr><tr><td>50</td><td>30.462</td><td>30.455</td><td>30.450</td></tr><tr><td>60</td><td>30.449</td><td>30.437</td><td>30.428</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	-20	30.436	30.434	30.433	-10	30.448	30.446	30.445	0	30.462	30.458	30.458	10	30.472	30.469	30.467	25	30.479	30.475	30.473	40	30.474	30.468	30.465	50	30.462	30.455	30.450	60	30.449	30.437	30.428	--	-	-	-	--	-	-	-	--	-	-	-
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Model		LDA75F-30	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+30V2.5A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -10 - 50°C

Input Voltage : 85 - 264V

Load Current : 0 - 2.5A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	25	200	0	30.484	±22	±0.1
Minimum Voltage	50	264	2.5	30.440		

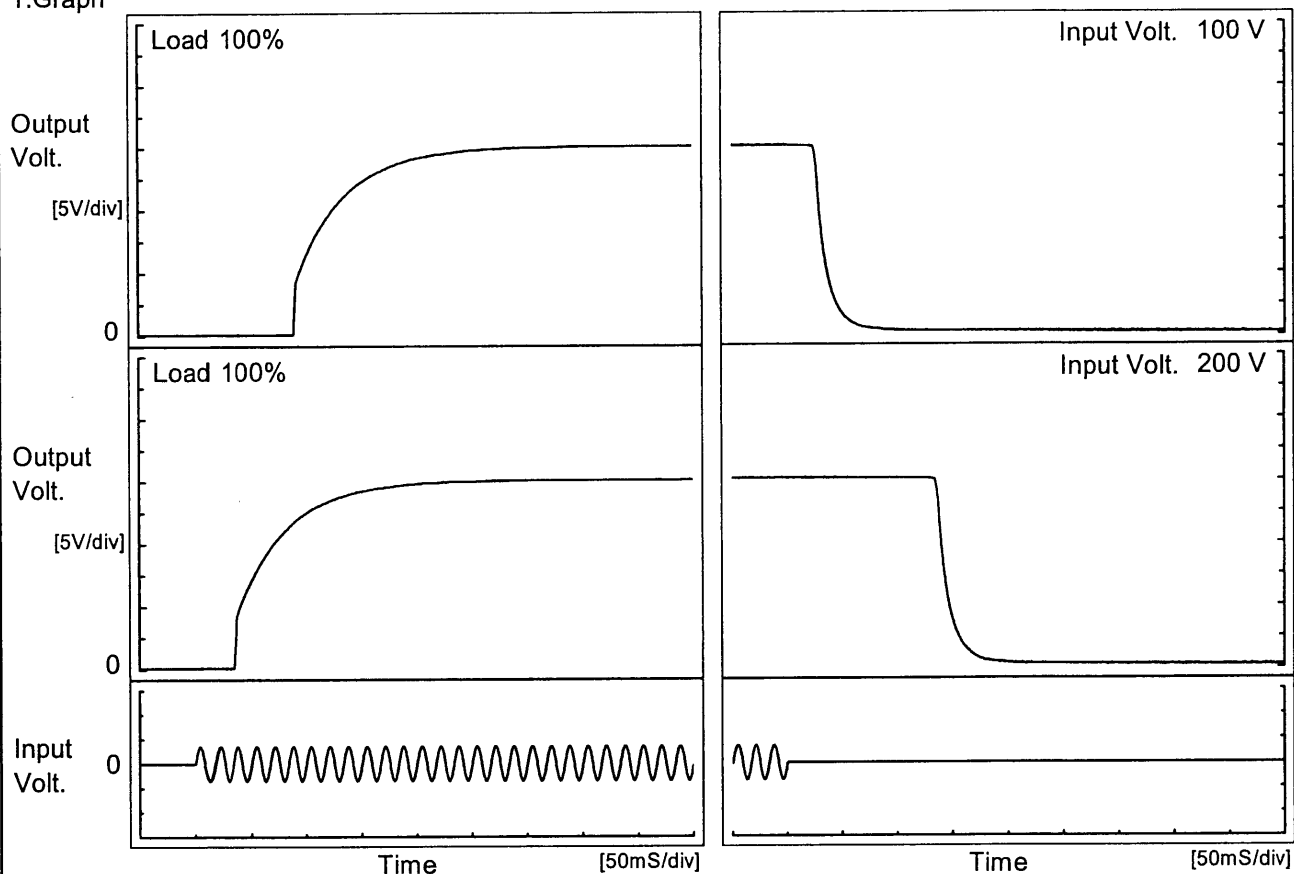
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Model		LDA75F -30	Temperature25°C Testing CircuitryFigure A
Item		Time Lapse Drift	
Object		+30V2.5A	
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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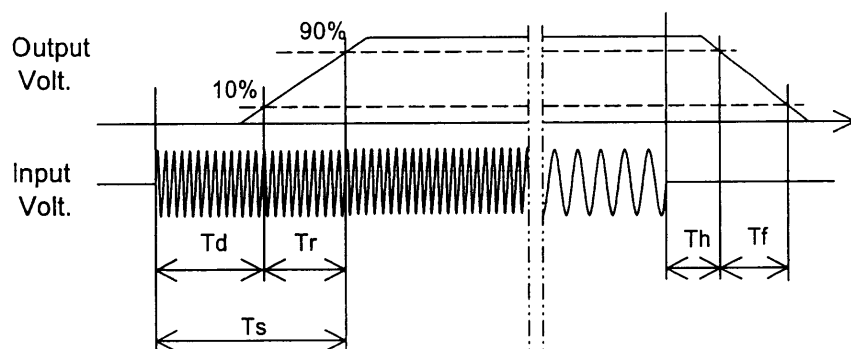
Model	LDA75F-30	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+30V2.5A		

1. Graph



2. Values

Input Volt. \ Time	Td	Tr	Ts	Th	Tf
100 V	90.0	90.0	180.0	26.8	24.3
200 V	35.8	90.3	126.1	136.8	24.5



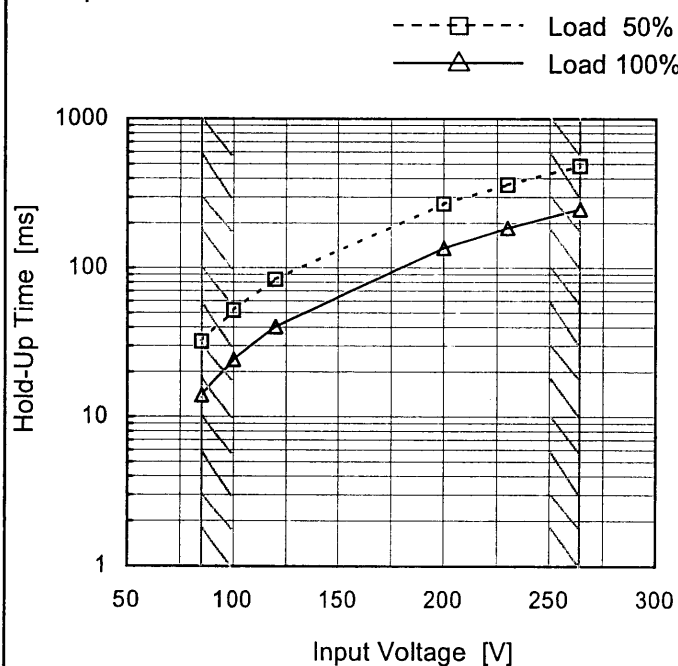
Model LDA75F-30

Item Hold-Up Time

Object +30V2.5A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
Note: Slanted line shows the range of the rated input voltage.

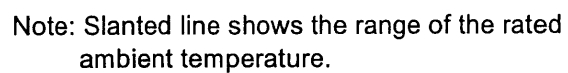
2.Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	32	14
100	52	24
120	84	40
200	271	136
230	363	186
264	484	249
--	-	-
--	-	-
--	-	-

Model		LDA75F -30	Temperature 25°C Testing Circuitry Figure A																																																			
Item		Instantaneous Interruption Compensation																																																				
Object		+30V2.5A																																																				
1.Graph		<div><div>—△—</div><div>---□---</div><div>---○---</div></div> <div><div>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 230V</div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>	2.Values																																																			
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.40</td><td>156</td><td>726</td><td>955</td></tr><tr><td>0.80</td><td>85</td><td>407</td><td>540</td></tr><tr><td>1.20</td><td>55</td><td>284</td><td>380</td></tr><tr><td>1.60</td><td>40</td><td>216</td><td>290</td></tr><tr><td>2.00</td><td>31</td><td>173</td><td>233</td></tr><tr><td>2.40</td><td>27</td><td>145</td><td>195</td></tr><tr><td>2.50</td><td>23</td><td>139</td><td>187</td></tr><tr><td>2.75</td><td>23</td><td>124</td><td>170</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	-	-	-	0.40	156	726	955	0.80	85	407	540	1.20	55	284	380	1.60	40	216	290	2.00	31	173	233	2.40	27	145	195	2.50	23	139	187	2.75	23	124	170	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
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2.40	27	145	195																																																			
2.50	23	139	187																																																			
2.75	23	124	170																																																			
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Testing Circuitry Figure A

2.Values



Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	55	63
-10	54	62
0	54	61
10	53	61
25	53	61
40	53	61
50	52	61
60	52	61
--	-	-
--	-	-
--	-	-

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Model		LDA75F - 30	
Item		Overcurrent Protection	
Object		+30V2.5A	

1.Graph

Input Volt. 100V

Input Volt. 200V

Output Voltage [V]

60

40

20

0

0.0

1.0

2.0

3.0

4.0

Load Current [A]

Note: Slanted line shows the range of the rated load current.

2.Values

Output Voltage [V]	Load Current [A]	
	Input Volt. 100[V]	Input Volt. 200[V]
30.0	3.06	3.13
28.5	3.07	3.16
27.0	3.08	3.16
24.0	3.10	3.18
21.0	3.13	3.21
18.0	3.15	3.22
15.0	3.17	3.24
12.0	3.19	3.25
9.0	3.22	3.25
6.0	3.23	3.19
3.0	3.17	3.00
0.0	2.96	3.24

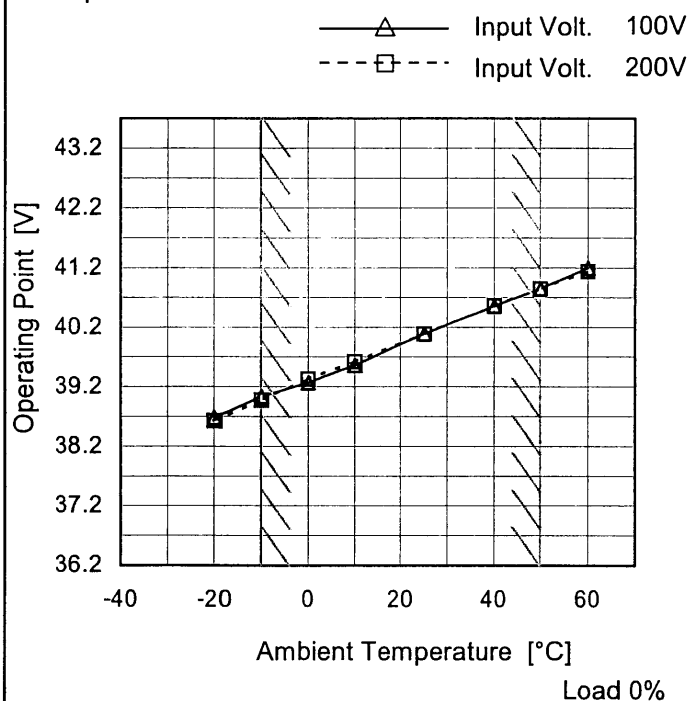
Model LDA75F-30

Item Overvoltage Protection

Object +30V2.5A

Testing Circuitry Figure A

1.Graph



Note: Slanted line shows the range of the rated ambient temperature.

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 200[V]
-20	38.73	38.67
-10	39.08	39.02
0	39.31	39.37
10	39.60	39.66
25	40.13	40.13
40	40.60	40.60
50	40.89	40.89
60	41.24	41.18
--	-	-
--	-	-
--	-	-

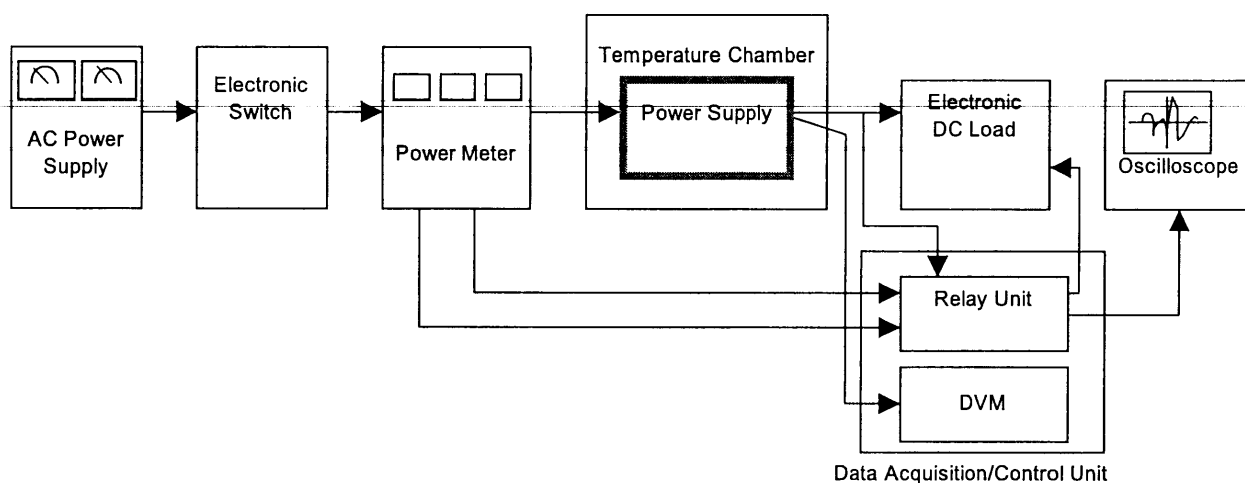


Figure A

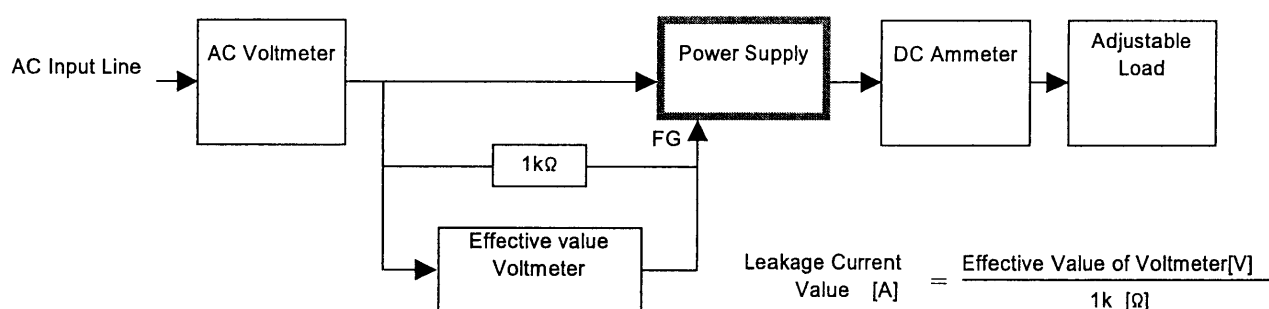


Figure B (DEN-AN)

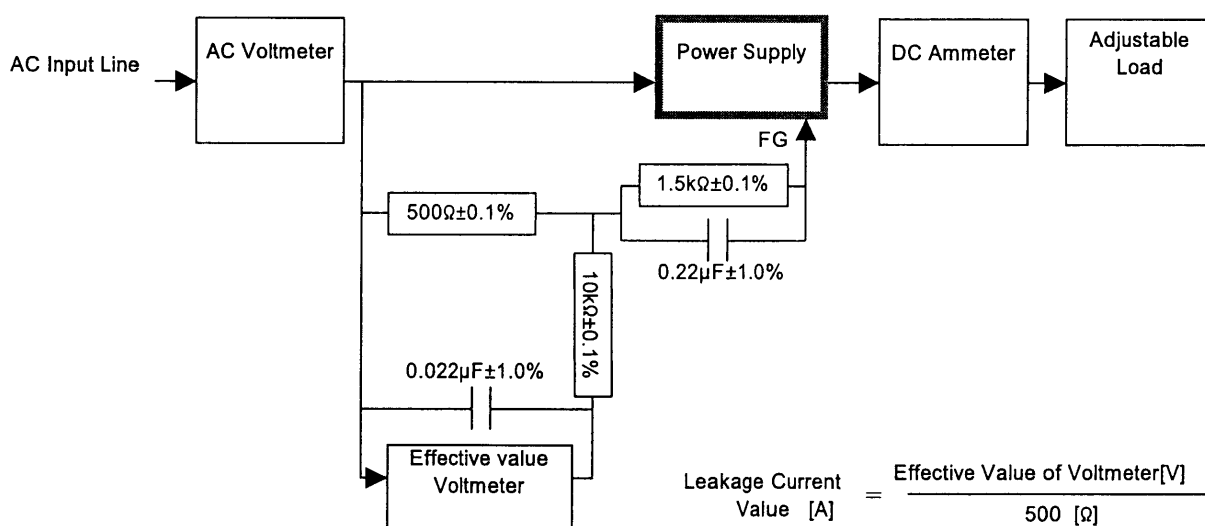


Figure B (IEC60950)