



TEST DATA OF LDA100W-30

(200V INPUT)

Regulated DC Power Supply
Mar.4. 2005

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COSEL CO.,LTD.



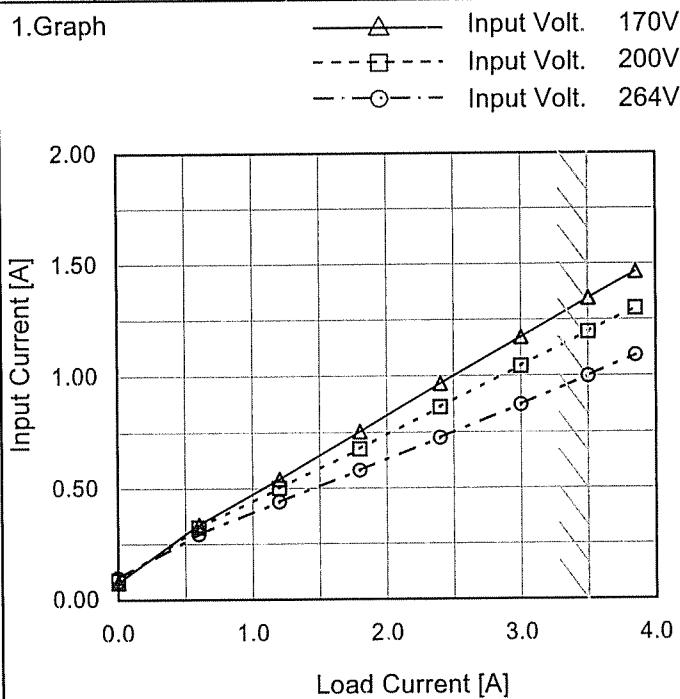
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(Final Page 21)

COSEL

Model	LDA100W-30
Item	Input Current (by Load Current)
Object	_____



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

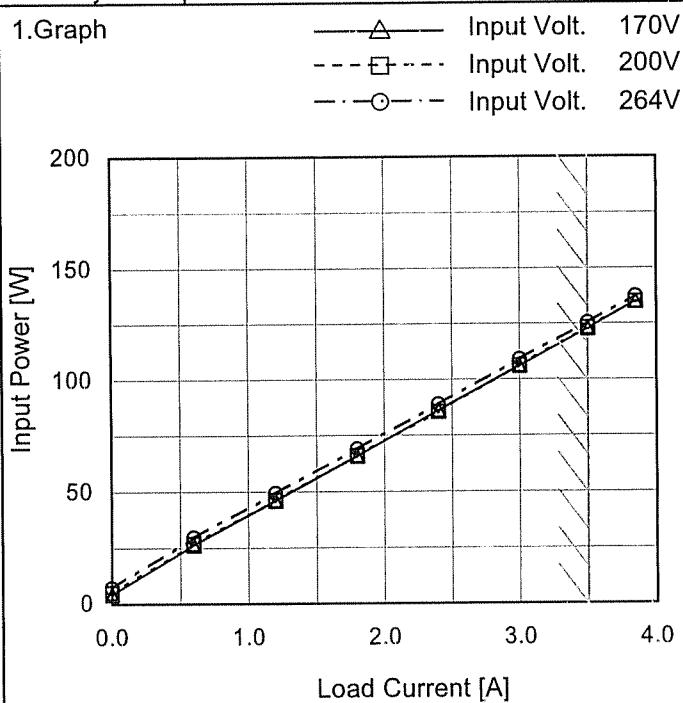
Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.078	0.086	0.098
0.60	0.338	0.325	0.295
1.20	0.542	0.501	0.439
1.80	0.754	0.677	0.580
2.40	0.967	0.862	0.725
3.00	1.173	1.043	0.872
3.50	1.346	1.195	0.999
3.85	1.464	1.301	1.090
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

Model	LDA100W-30
Item	Input Power (by Load Current)
Object	_____



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

Temperature 25°C
Testing Circuitry Figure A

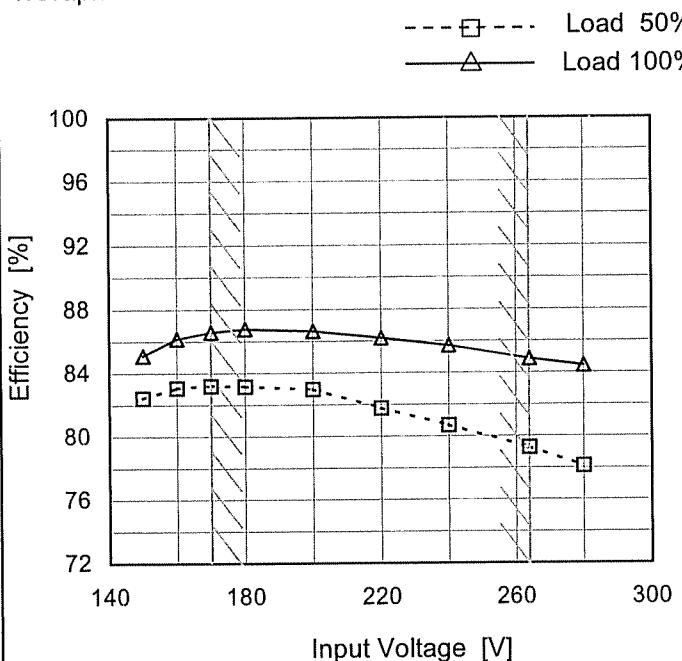
2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	4.3	5.1	7.2
0.60	26.5	26.9	29.7
1.20	46.1	46.3	49.4
1.80	66.0	66.1	69.1
2.40	86.2	85.7	88.9
3.00	106.1	106.3	109.0
3.50	122.9	123.1	125.5
3.85	135.0	134.9	137.3
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

Model	LDA100W-30
Item	Efficiency (by Input Voltage)
Object	_____

1.Graph



Note: Slanted line shows the range of the rated input voltage.

 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
150	82.4	85.1
160	83.1	86.2
170	83.2	86.6
180	83.2	86.8
200	83.0	86.6
220	81.8	86.2
240	80.7	85.7
264	79.3	84.9
280	78.1	84.4

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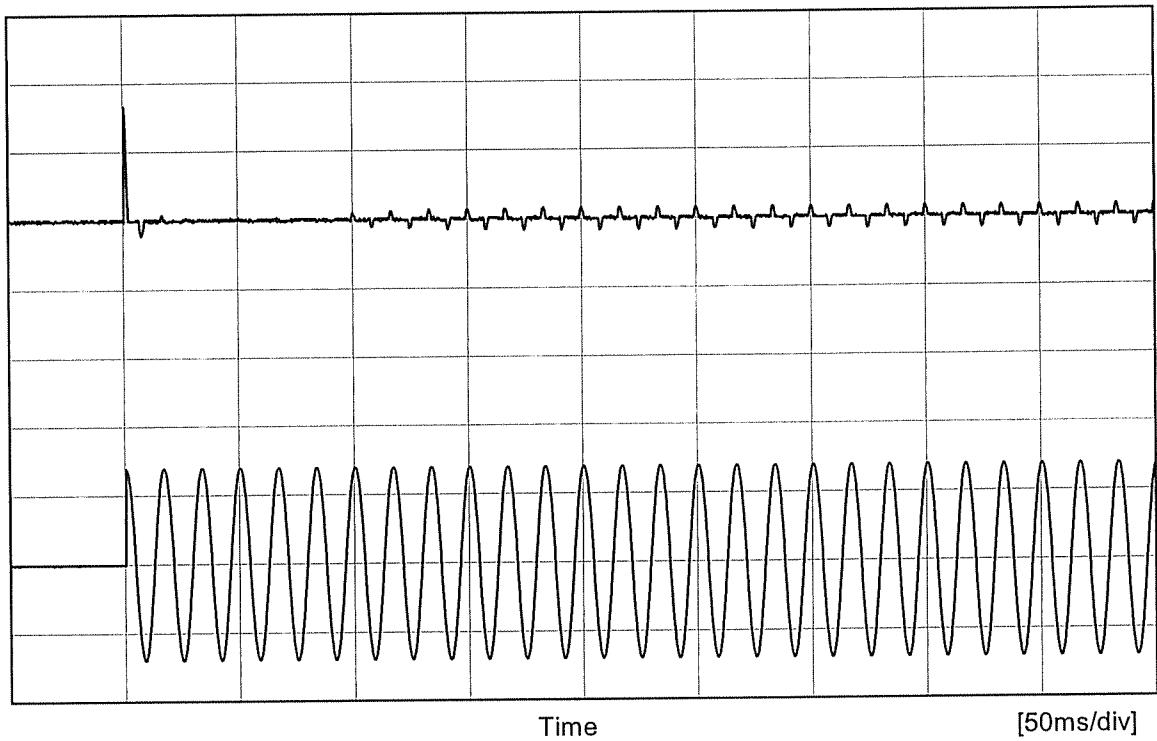
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—△— Input Volt. 170V - - □ - - Input Volt. 200V - - ○ - - Input Volt. 264V																																																						
<p>The graph shows efficiency increasing with load current for all input voltages. The 170V curve is the highest, followed by 200V, and then 264V. A slanted line from the top left to the bottom right indicates the rated load current range.</p> <table border="1"> <caption>Data points estimated from Graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>Efficiency [170V] (%)</th> <th>Efficiency [200V] (%)</th> <th>Efficiency [264V] (%)</th> </tr> </thead> <tbody> <tr><td>0.60</td><td>69.8</td><td>68.8</td><td>62.3</td></tr> <tr><td>1.20</td><td>79.5</td><td>79.3</td><td>74.3</td></tr> <tr><td>1.80</td><td>83.1</td><td>83.0</td><td>79.4</td></tr> <tr><td>2.40</td><td>84.8</td><td>85.2</td><td>82.2</td></tr> <tr><td>3.00</td><td>86.0</td><td>85.8</td><td>83.7</td></tr> <tr><td>3.50</td><td>86.6</td><td>86.4</td><td>84.8</td></tr> <tr><td>3.85</td><td>86.6</td><td>86.7</td><td>85.2</td></tr> </tbody> </table>				Load Current [A]	Efficiency [170V] (%)	Efficiency [200V] (%)	Efficiency [264V] (%)	0.60	69.8	68.8	62.3	1.20	79.5	79.3	74.3	1.80	83.1	83.0	79.4	2.40	84.8	85.2	82.2	3.00	86.0	85.8	83.7	3.50	86.6	86.4	84.8	3.85	86.6	86.7	85.2																			
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COSEL

Model LDA100W-30

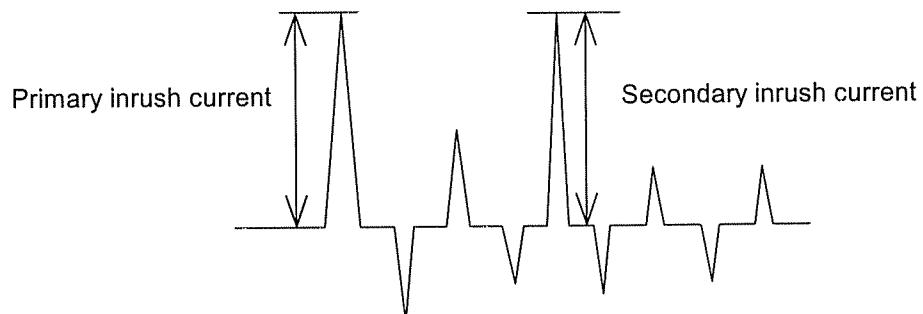
Item Inrush Current

Object

Temperature 25°C
Testing Circuitry Figure AInput
Current
[20A/div]

Input Voltage	200 V
Frequency	60 Hz
Load	100 %

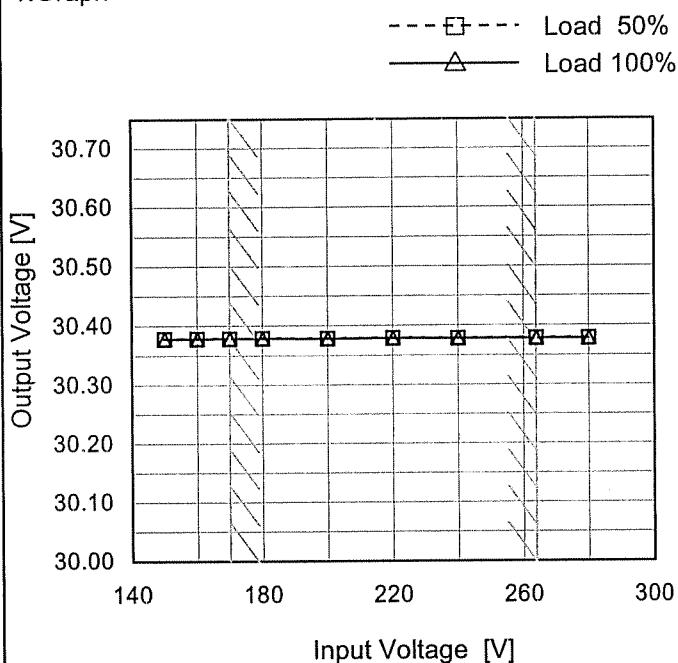
Primary inrush current	33.1 A
Secondary inrush current	3.3 A



COSEL

Model	LDA100W-30
Item	Line Regulation
Object	+30V3.5A

1.Graph



Note: Slanted line shows the range of the rated input voltage.

Temperature 25°C
Testing Circuitry Figure A

2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
150	30.379	30.379
160	30.379	30.379
170	30.379	30.379
180	30.379	30.379
200	30.379	30.379
220	30.379	30.379
240	30.379	30.379
264	30.379	30.379
280	30.379	30.379

COSEL

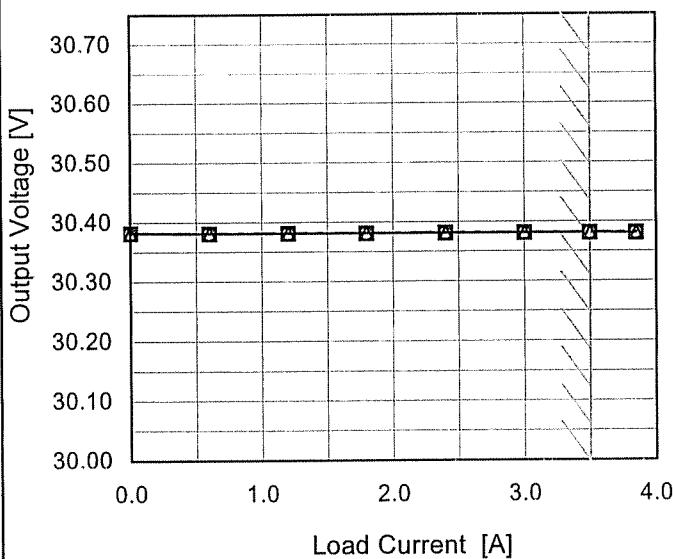
Model LDA100W-30

Item Load Regulation

Object +30V3.5A

1.Graph

—△— Input Volt. 170V
 - - -□- - Input Volt. 200V
 - - -○- - Input Volt. 264V

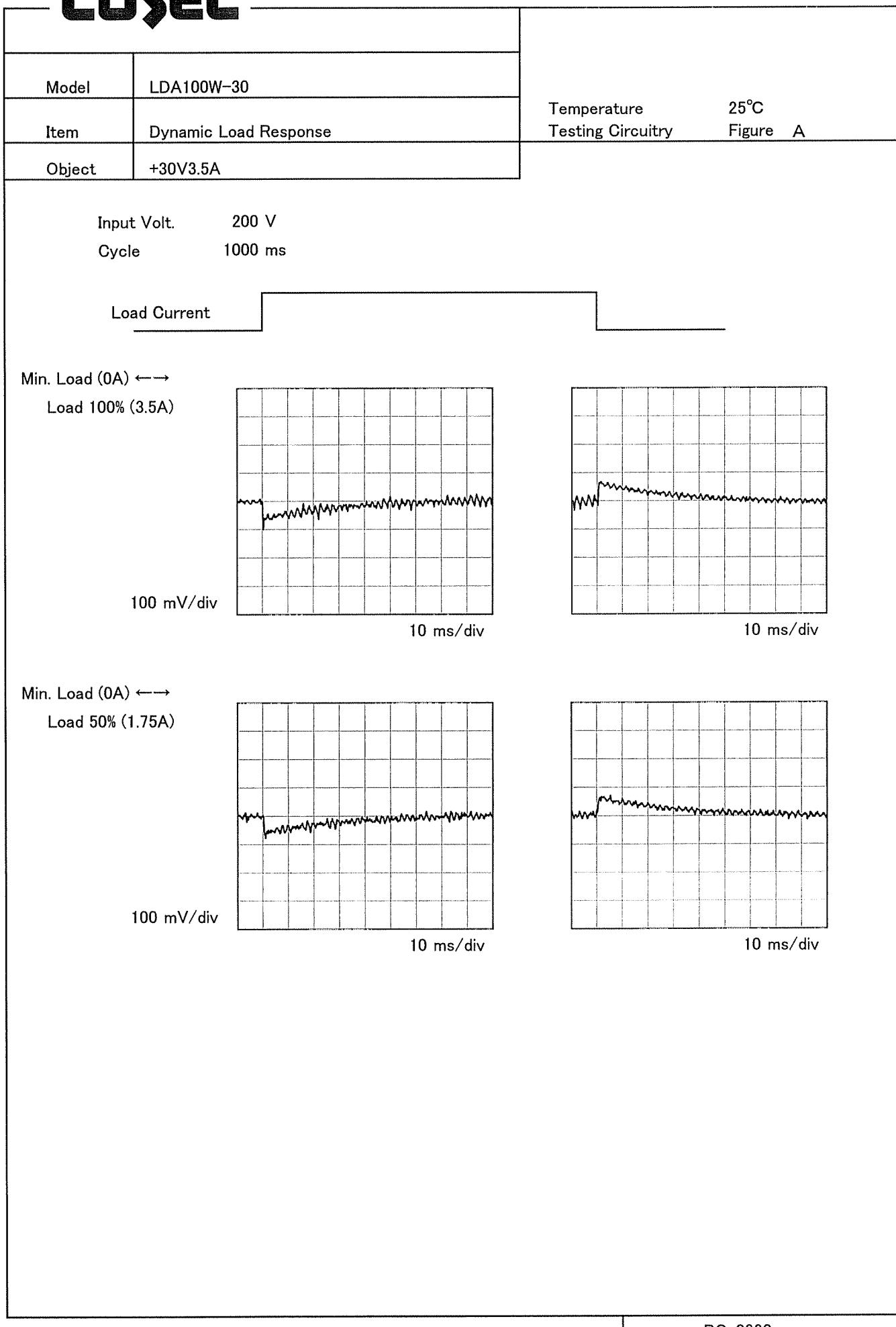


Note: Slanted line shows the range of the rated load current.

 Temperature 25°C
 Testing Circuitry Figure A

2.Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	30.382	30.382	30.382
0.60	30.381	30.381	30.381
1.20	30.381	30.381	30.381
1.80	30.382	30.381	30.381
2.40	30.381	30.381	30.381
3.00	30.382	30.381	30.381
3.50	30.381	30.381	30.381
3.85	30.381	30.381	30.381
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--	-	-	-
--	-	-	-

COSEL

COSEL

Model	LDA100W-30																																							
Item	Ripple Voltage (by Load Current)	Temperature 25°C Testing Circuitry Figure A																																						
Object	+30V3.5A																																							
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<p>—△— Input Volt. 170V -·○- Input Volt. 264V</p> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p>																																								
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<p>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.</p> <p>T1: Due to AC Input Line T2: Due to Switching</p> <p>Ripple [mVp-p]</p> <p>T1</p> <p>T2</p>																																								
Fig. Complex Ripple Wave Form																																								

COSEL

Model	LDA100W-30	Temperature	25°C																																				
Item	Ripple-Noise	Testing Circuitry	Figure A																																				
Object	+30V3.5A																																						
1.Graph			2.Values																																				
<p>Graph showing Ripple-Noise [mV] vs Load Current [A]. The Y-axis ranges from 0 to 200 mV, and the X-axis ranges from 0.0 to 4.0 A. Two curves are plotted: one for Input Volt. 170V (solid line with square markers) and one for Input Volt. 264V (dashed line with circle markers). Both curves show an increase in noise with load current. A slanted line is drawn across the graph, representing the range of the rated load current.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple-Noise [mV] (Input Volt. 170 V)</th> <th>Ripple-Noise [mV] (Input Volt. 264 V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>5</td><td>5</td></tr> <tr><td>0.60</td><td>20</td><td>25</td></tr> <tr><td>1.20</td><td>25</td><td>30</td></tr> <tr><td>1.80</td><td>30</td><td>35</td></tr> <tr><td>2.40</td><td>40</td><td>40</td></tr> <tr><td>3.00</td><td>45</td><td>45</td></tr> <tr><td>3.50</td><td>50</td><td>45</td></tr> <tr><td>3.85</td><td>50</td><td>50</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>				Load Current [A]	Ripple-Noise [mV] (Input Volt. 170 V)	Ripple-Noise [mV] (Input Volt. 264 V)	0.00	5	5	0.60	20	25	1.20	25	30	1.80	30	35	2.40	40	40	3.00	45	45	3.50	50	45	3.85	50	50	--	-	-	--	-	-	--	-	-
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<p>Diagram illustrating a Complex Ripple Wave Form. The diagram shows a waveform with two time intervals labeled: T1: Due to AC Input Line and T2: Due to Switching. The vertical axis is labeled Ripple-Noise [mVp-p], indicating the peak-to-peak amplitude of the noise component.</p>																																							
<p>Fig. Complex Ripple Wave Form</p>																																							

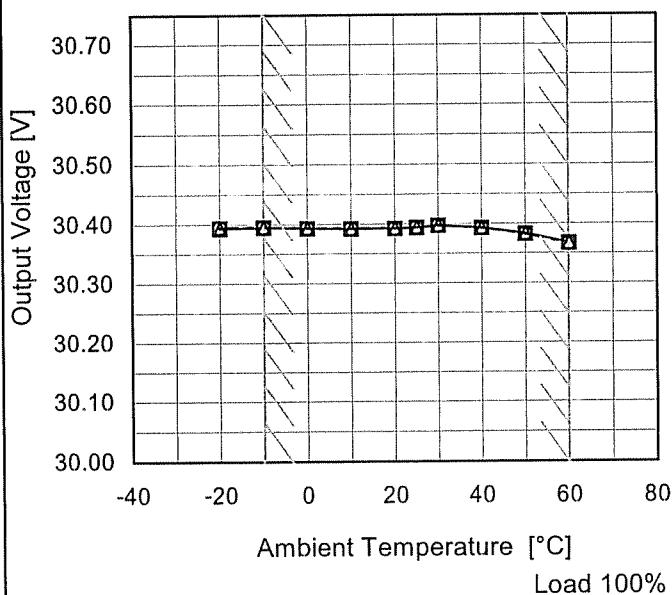
Model LDA100W-30 Item Ripple Voltage (by Ambient Temp.) Object +30V3.5A	Testing Circuitry Figure A																																						
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<p>Measured by 20 MHz Oscilloscope.</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																							



Model	LDA100W-30
Item	Ambient Temperature Drift
Object	+30V3.5A

1.Graph

—△— Input Volt. 170V
 - - -□- - - Input Volt. 200V
 - - -○- - - Input Volt. 264V



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

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	30.393	30.394	30.394
-10	30.395	30.395	30.395
0	30.393	30.393	30.393
10	30.392	30.392	30.392
20	30.393	30.392	30.392
25	30.394	30.394	30.394
30	30.397	30.397	30.397
40	30.393	30.393	30.393
50	30.384	30.383	30.382
60	30.368	30.367	30.366
--	-	-	-



Model	LDA100W-30	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+30V3.5A	

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 - 60°C

Input Voltage : 170 - 264V

Load Current : 0 - 3.5A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	264	3.5	30.398	±18	±0.1
Minimum Voltage	60	170	3.5	30.362		

COSEL

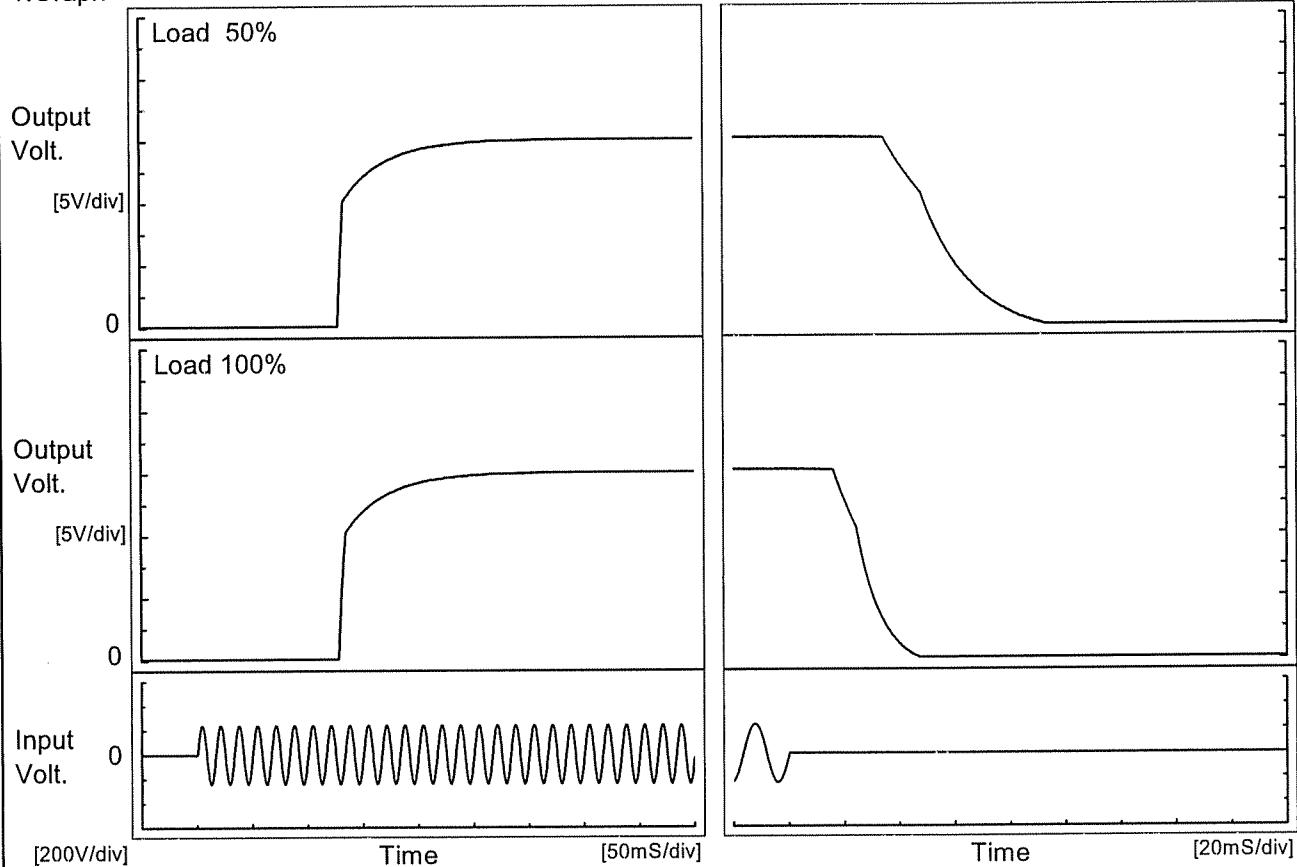
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Item	Time Lapse Drift	Testing Circuitry	Figure A																						
Object	+30V3.5A																								
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<p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 200V Load 100%</p>			<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>30.389</td></tr> <tr><td>0.5</td><td>30.382</td></tr> <tr><td>1.0</td><td>30.382</td></tr> <tr><td>2.0</td><td>30.382</td></tr> <tr><td>3.0</td><td>30.383</td></tr> <tr><td>4.0</td><td>30.383</td></tr> <tr><td>5.0</td><td>30.383</td></tr> <tr><td>6.0</td><td>30.383</td></tr> <tr><td>7.0</td><td>30.383</td></tr> <tr><td>8.0</td><td>30.383</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	30.389	0.5	30.382	1.0	30.382	2.0	30.382	3.0	30.383	4.0	30.383	5.0	30.383	6.0	30.383	7.0	30.383	8.0	30.383
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8.0	30.383																								

COSEL

Model	LDA100W-30
Item	Rise and Fall Time
Object	+30V3.5A

Temperature 25°C
Testing Circuitry Figure A

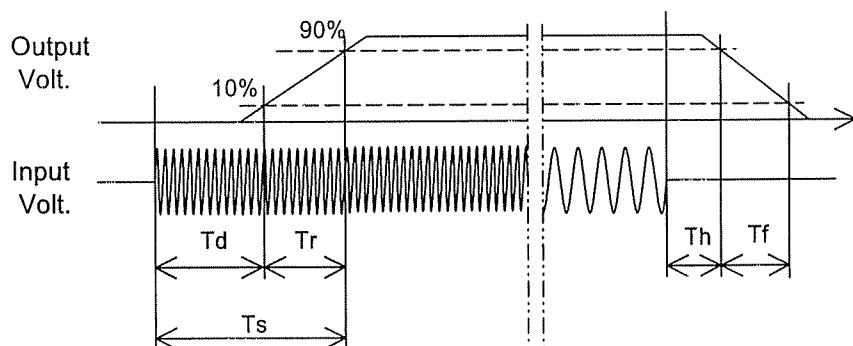
1. Graph



2. Values

[mS]

Load	Time	Td	Tr	Ts	Th	Tf
50 %		128.8	48.0	176.8	38.1	38.0
100 %		129.0	48.8	177.8	18.4	20.2



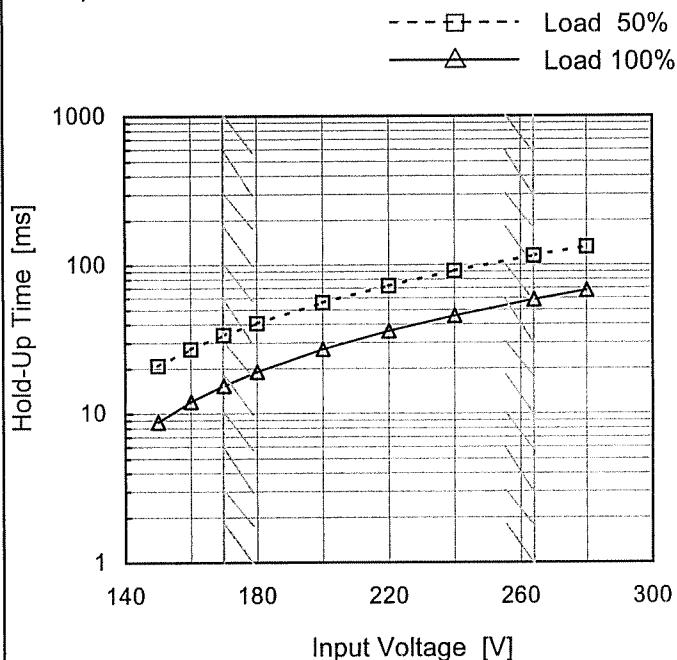
COSEL

Model LDA100W-30

Item Hold-Up Time

Object +30V3.5A

1. Graph

Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
150	21	9
160	27	12
170	34	15
180	41	19
200	56	27
220	73	36
240	91	46
264	115	58
280	132	68

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.

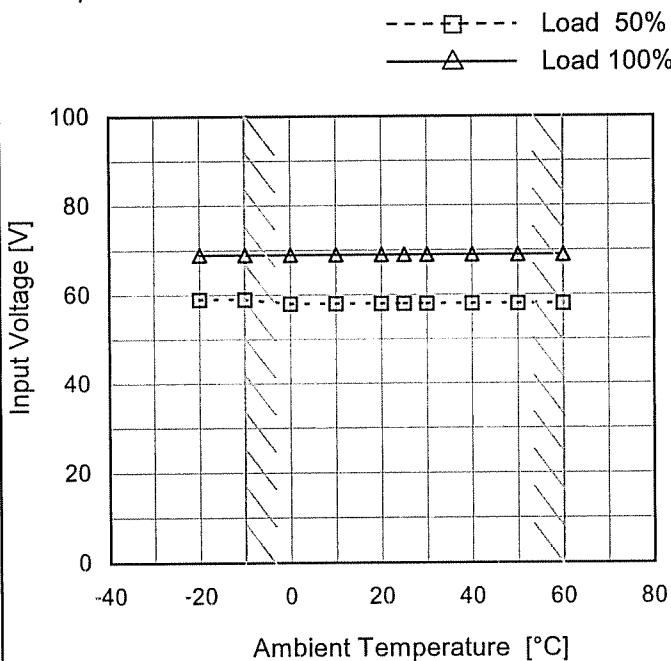
COSEL

Model	LDA100W-30	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation	Testing Circuitry	Figure A																																																			
Object	+30V3.5A																																																					
1.Graph	<p>—△— Input Volt. 170V - - -□- - - Input Volt. 200V - - ○ - - Input Volt. 264V</p>																																																					
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Time [ms]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr> <td>0.00</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>0.60</td><td>96</td><td>143</td><td>298</td></tr> <tr> <td>1.20</td><td>61</td><td>81</td><td>166</td></tr> <tr> <td>1.80</td><td>39</td><td>66</td><td>113</td></tr> <tr> <td>2.40</td><td>26</td><td>52</td><td>90</td></tr> <tr> <td>3.00</td><td>22</td><td>37</td><td>70</td></tr> <tr> <td>3.50</td><td>14</td><td>28</td><td>60</td></tr> <tr> <td>3.85</td><td>14</td><td>23</td><td>55</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> </tbody> </table>			Load Current [A]	Time [ms]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.00	-	-	-	0.60	96	143	298	1.20	61	81	166	1.80	39	66	113	2.40	26	52	90	3.00	22	37	70	3.50	14	28	60	3.85	14	23	55	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
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Note:	Slanted line shows the range of the rated load current.																																																					



Model	LDA100W-30
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+30V3.5A

1. Graph



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

Testing Circuitry Figure A

2. Values

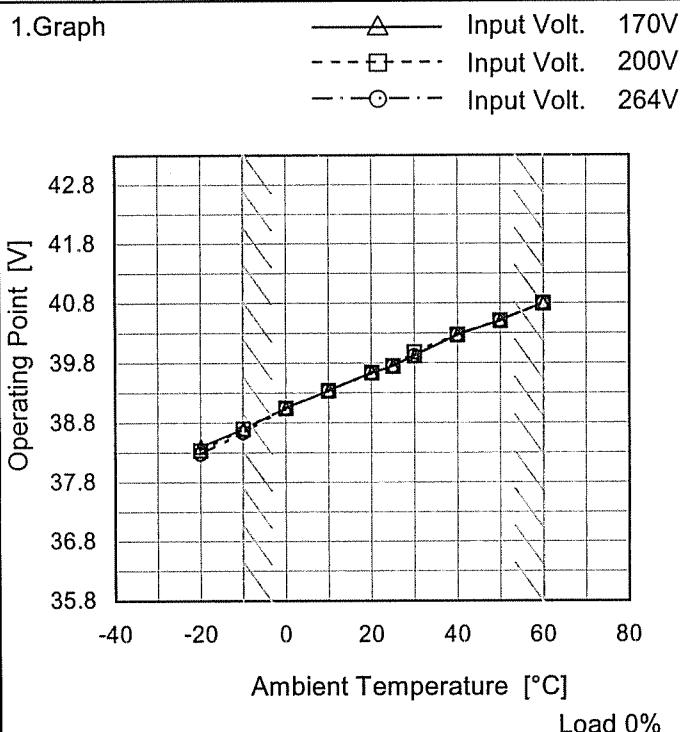
Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	59	69
-10	59	69
0	58	69
10	58	69
20	58	69
25	58	69
30	58	69
40	58	69
50	58	69
60	58	69
--	-	-

COSEL

Model	LDA100W-30		
Item	Overcurrent Protection	Temperature Testing Circuitry	25°C Figure A
Object	+30V3.5A		
1.Graph	<p>Input Volt. 170V Input Volt. 200V Input Volt. 264V</p> <p>Output Voltage [V]</p> <p>Load Current [A]</p>		
	<p>Note: Slanted line shows the range of the rated load current.</p>		
2.Values	Output Voltage [V]	Load Current [A]	
	Input Volt.	170[V]	200[V]
30.0	4.33	4.33	4.38
28.5	4.35	4.35	4.42
27.0	4.37	4.38	4.45
24.0	4.42	4.44	4.53
21.0	4.48	4.52	4.60
18.0	4.56	4.58	4.68
15.0	4.62	4.68	4.72
12.0	4.67	4.72	4.82
9.0	4.73	4.79	4.92
6.0	4.78	4.83	4.95
3.0	4.72	4.73	4.76
0.0	4.55	4.50	4.58

COSEL

Model	LDA100W-30
Item	Ovvoltage Protection
Object	+30V3.5A



Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	38.43	38.37	38.31
-10	38.73	38.73	38.67
0	39.08	39.08	39.08
10	39.37	39.37	39.37
20	39.67	39.67	39.66
25	39.78	39.78	39.78
30	39.95	40.01	39.95
40	40.30	40.30	40.30
50	40.54	40.54	40.54
60	40.83	40.83	40.83
--	-	-	-

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

coSEL

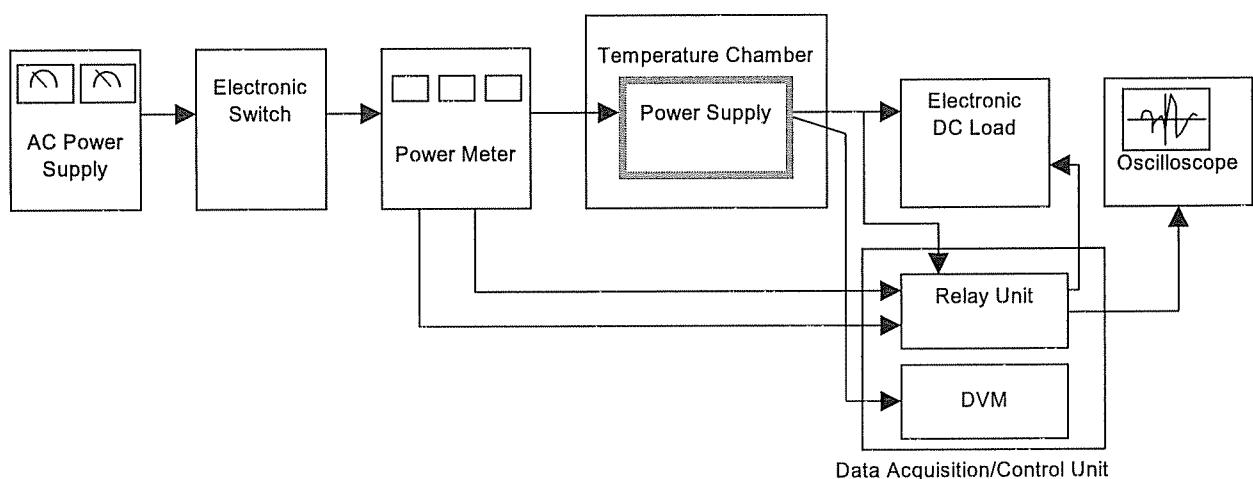


Figure A

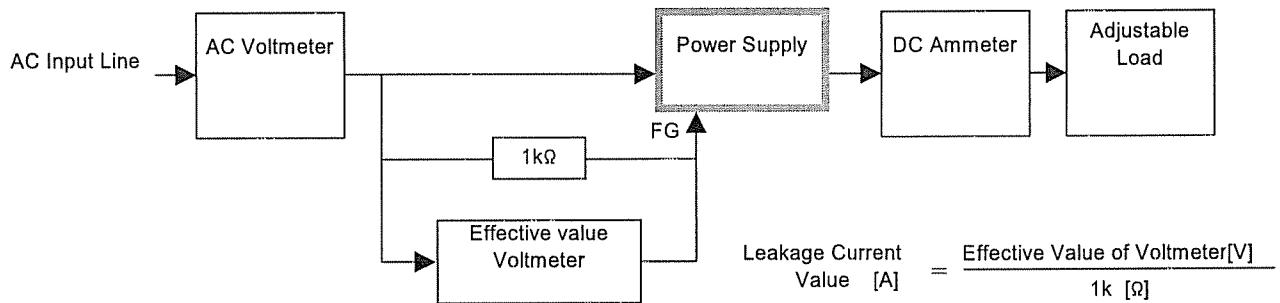


Figure B (DEN-AN)

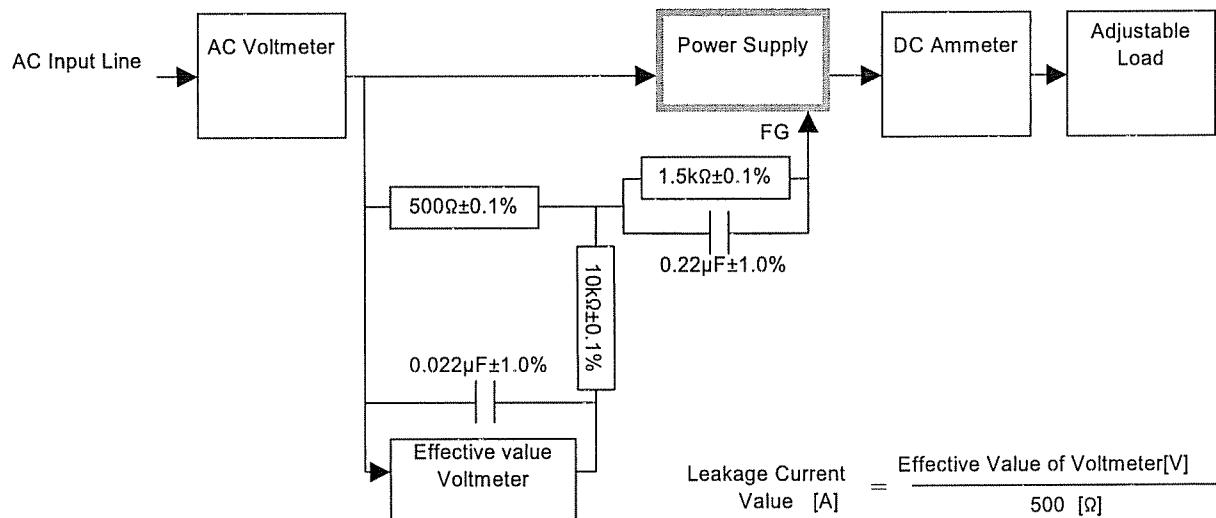


Figure B (IEC60950)