



TEST DATA OF LDA150W-18

(100V INPUT)

Regulated DC Power Supply
Feb.14. 2005

Approved by : K. Shiho Design Manager

Prepared by : S. Ueda Design Engineer

COSEL CO.,LTD.

CONTENTS

1.Input Current (by Load Current)	1
2.Input Power (by Load Current)	2
3.Efficiency (by Input Voltage)	3
4.Efficiency (by Load Current)	4
5.Inrush Current	5
6.Line Regulation	6
7.Load Regulation	7
8.Dynamic Load Response	8
9.Ripple Voltage (by Load Current)	9
10.Ripple-Noise	10
11.Ripple Voltage (by Ambient Temperature)	11
12.Ambient Temperature Drift	12
13.Output Voltage Accuracy	13
14.Time Lapse Drift	14
15.Rise and Fall Time	15
16.Hold-Up Time	16
17.Instantaneous Interruption Compensation	17
18.Minimum Input Voltage for Regulated Output Voltage	18
19.Overcurrent Protection	19
20.Oversvoltage Protection	20
21.Figure of Testing Circuitry	21

(Final Page 21)

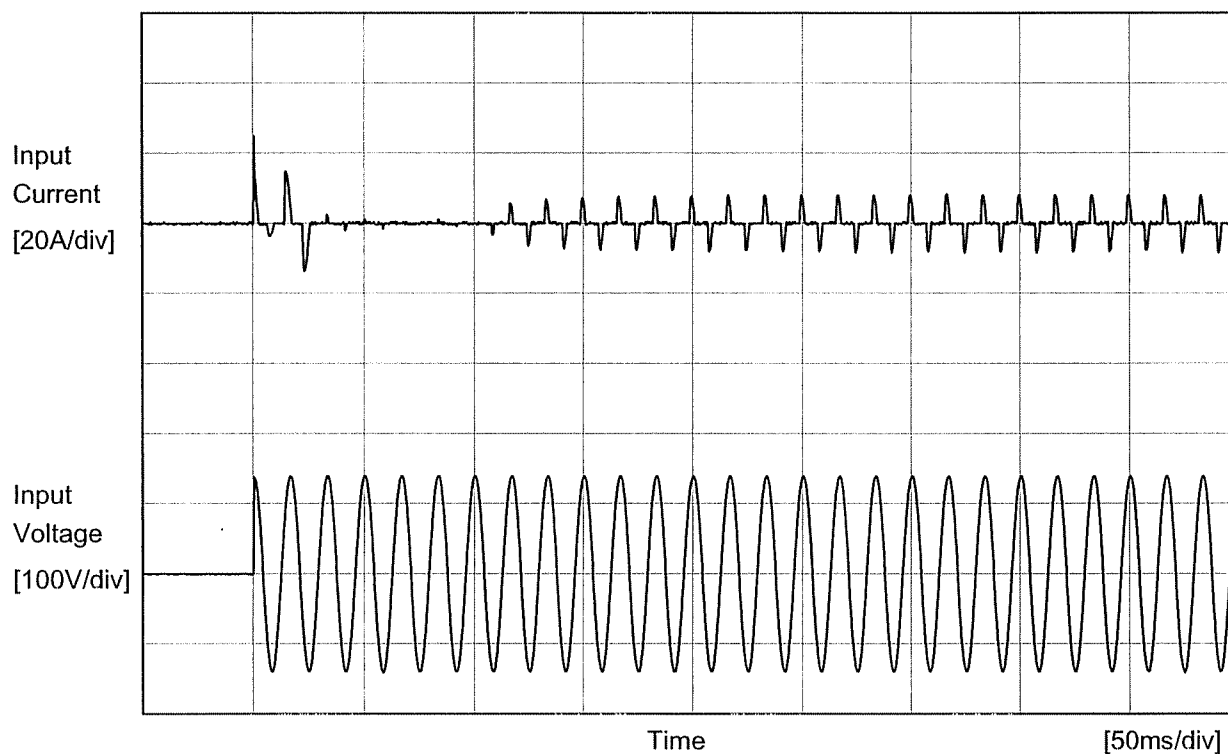
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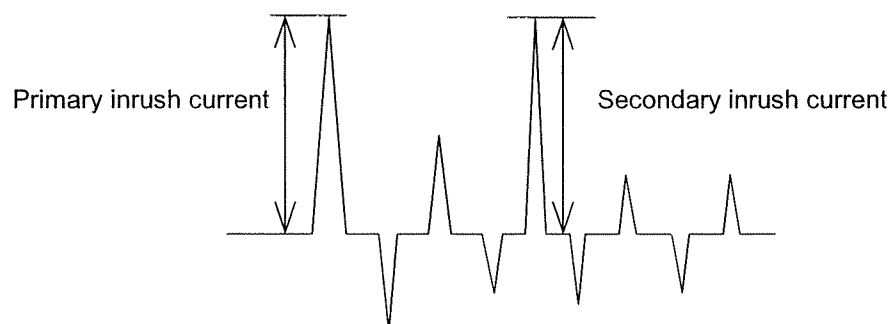
- 4 -

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Item		Inrush Current	
Object		_____	



Input Voltage 100 V
Frequency 60 Hz
Load 100 %

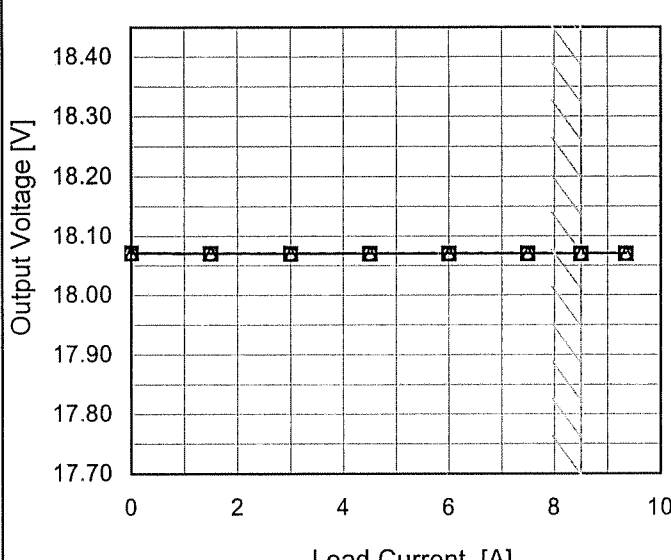
Primary inrush current 24.7 A
Secondary inrush current 14.8 A



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132	18.071	18.070																															
140	18.071	18.070																															
Note: Slanted line shows the range of the rated input voltage.																																	

COSEL

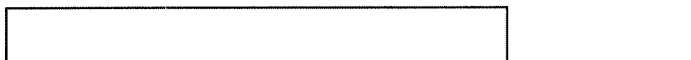
Model	LDA150W-18																																																					
Item	Load Regulation	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	+18V8.5A																																																					
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>85V</div></div><div><div>---□---</div><div>Input Volt.</div><div>100V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>132V</div></div></div>  <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.00</td><td>18.072</td><td>18.072</td><td>18.071</td></tr><tr><td>1.50</td><td>18.071</td><td>18.071</td><td>18.070</td></tr><tr><td>3.00</td><td>18.071</td><td>18.071</td><td>18.070</td></tr><tr><td>4.50</td><td>18.071</td><td>18.071</td><td>18.070</td></tr><tr><td>6.00</td><td>18.071</td><td>18.071</td><td>18.070</td></tr><tr><td>7.50</td><td>18.071</td><td>18.071</td><td>18.070</td></tr><tr><td>8.50</td><td>18.071</td><td>18.070</td><td>18.070</td></tr><tr><td>9.35</td><td>18.071</td><td>18.070</td><td>18.070</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>		Load Current [A]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	18.072	18.072	18.071	1.50	18.071	18.071	18.070	3.00	18.071	18.071	18.070	4.50	18.071	18.071	18.070	6.00	18.071	18.071	18.070	7.50	18.071	18.071	18.070	8.50	18.071	18.070	18.070	9.35	18.071	18.070	18.070	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
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6.00	18.071	18.071	18.070																																																			
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Model	LDA150W-18	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+18V8.5A		

Input Volt. 100 V
Cycle 1000 ms

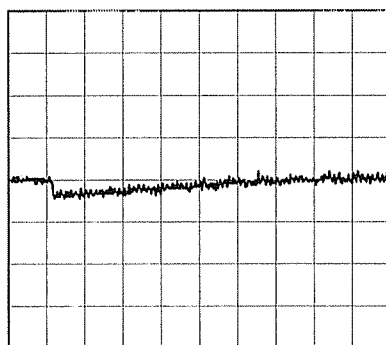
Load Current



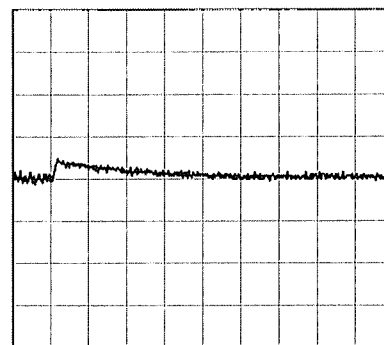
Min. Load (0A) ←→

Load 100% (8.5A)

100 mV/div



10 ms/div

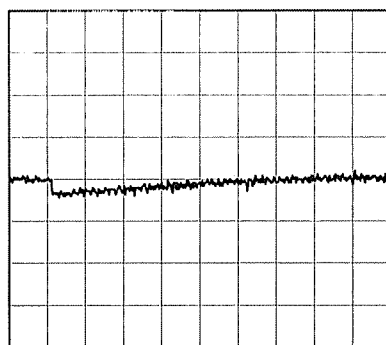


10 ms/div

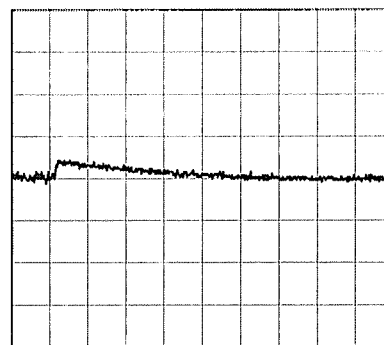
Min. Load (0A) ←→

Load 50% (4.25A)

100 mV/div

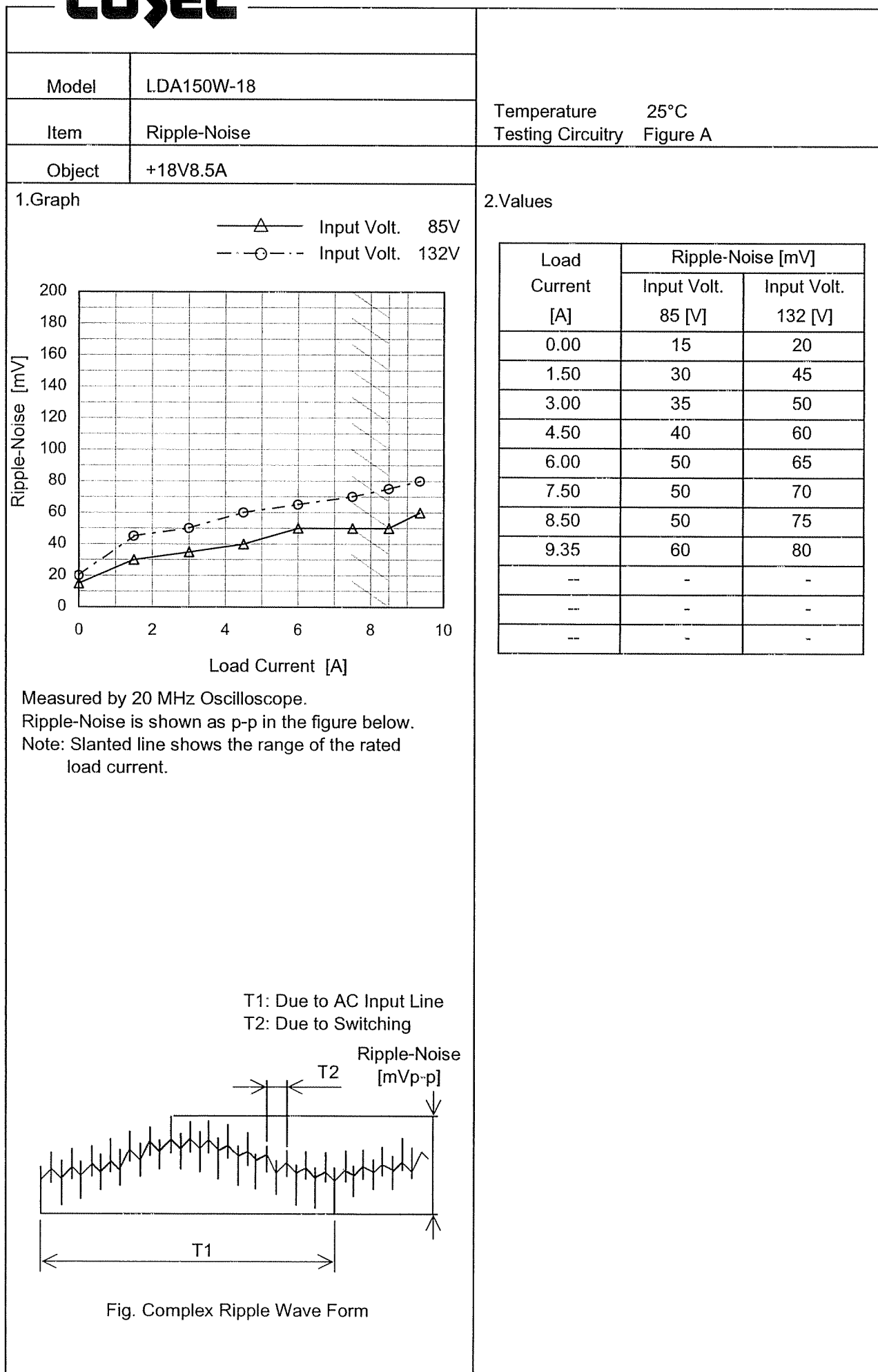


10 ms/div



10 ms/div

Model		LDA150W-18	Temperature 25°C Testing Circuitry Figure A
Item		Ripple Voltage (by Load Current)	
Object		+18V8.5A	
1.Graph		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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Model		LDA150W-18	Testing Circuitry Figure A																																																																							
Item		Ripple Voltage (by Ambient Temp.)																																																																								
Object		+18V8.5A																																																																								
1.Graph		2.Values																																																																								
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>---△---</div><div>Load 100%</div></div></div> <div><table border="1"><caption>Graph Data</caption><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50% [mV]</th><th>Load 100% [mV]</th></tr></thead><tbody><tr><td>-20</td><td>60</td><td>60</td></tr><tr><td>-10</td><td>55</td><td>55</td></tr><tr><td>0</td><td>45</td><td>50</td></tr><tr><td>10</td><td>45</td><td>45</td></tr><tr><td>20</td><td>45</td><td>45</td></tr><tr><td>25</td><td>35</td><td>40</td></tr><tr><td>30</td><td>35</td><td>40</td></tr><tr><td>40</td><td>30</td><td>40</td></tr><tr><td>50</td><td>30</td><td>30</td></tr><tr><td>60</td><td>30</td><td>30</td></tr></tbody></table><p>Input Volt. 100V</p></div>		Ambient Temperature [°C]	Load 50% [mV]	Load 100% [mV]	-20	60	60	-10	55	55	0	45	50	10	45	45	20	45	45	25	35	40	30	35	40	40	30	40	50	30	30	60	30	30	<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>60</td><td>60</td></tr><tr><td>-10</td><td>55</td><td>55</td></tr><tr><td>0</td><td>45</td><td>50</td></tr><tr><td>10</td><td>45</td><td>45</td></tr><tr><td>20</td><td>45</td><td>45</td></tr><tr><td>25</td><td>35</td><td>40</td></tr><tr><td>30</td><td>35</td><td>40</td></tr><tr><td>40</td><td>30</td><td>40</td></tr><tr><td>50</td><td>30</td><td>30</td></tr><tr><td>60</td><td>30</td><td>30</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-20	60	60	-10	55	55	0	45	50	10	45	45	20	45	45	25	35	40	30	35	40	40	30	40	50	30	30	60	30	30	--	-	-
Ambient Temperature [°C]	Load 50% [mV]	Load 100% [mV]																																																																								
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Object	+18V8.5A																																																						
1.Graph		2.Values																																																					
<div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 132V</div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>-20</td><td>18.106</td><td>18.106</td><td>18.106</td></tr><tr><td>-10</td><td>18.098</td><td>18.098</td><td>18.098</td></tr><tr><td>0</td><td>18.091</td><td>18.090</td><td>18.090</td></tr><tr><td>10</td><td>18.082</td><td>18.082</td><td>18.082</td></tr><tr><td>20</td><td>18.073</td><td>18.073</td><td>18.073</td></tr><tr><td>25</td><td>18.069</td><td>18.069</td><td>18.069</td></tr><tr><td>30</td><td>18.066</td><td>18.066</td><td>18.065</td></tr><tr><td>40</td><td>18.056</td><td>18.056</td><td>18.056</td></tr><tr><td>50</td><td>18.044</td><td>18.044</td><td>18.044</td></tr><tr><td>60</td><td>18.031</td><td>18.031</td><td>18.030</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>			Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	18.106	18.106	18.106	-10	18.098	18.098	18.098	0	18.091	18.090	18.090	10	18.082	18.082	18.082	20	18.073	18.073	18.073	25	18.069	18.069	18.069	30	18.066	18.066	18.065	40	18.056	18.056	18.056	50	18.044	18.044	18.044	60	18.031	18.031	18.030	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																						
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																				
-20	18.106	18.106	18.106																																																				
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50	18.044	18.044	18.044																																																				
60	18.031	18.031	18.030																																																				
--	-	-	-																																																				
Note: Slanted line shows the range of the rated ambient temperature.																																																							



		Testing Circuitry Figure A
Model	LDA150W-18	
Item	Output Voltage Accuracy	
Object	+18V8.5A	

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 : 0 - 50°C

Input Voltage : 85 - 132V

Load Current : 0 - 8.5A

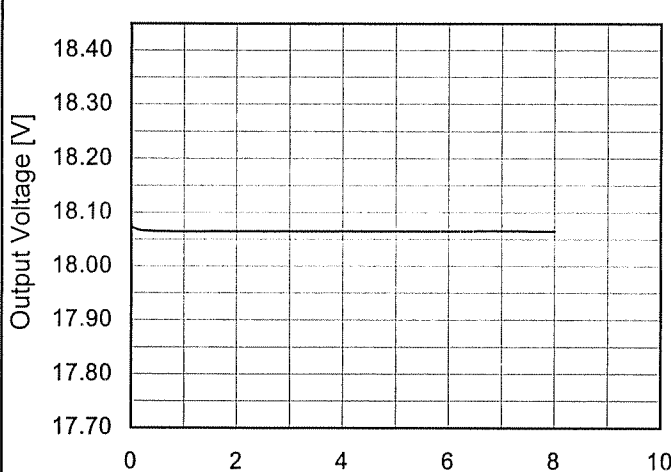
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* 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	0	85	0	18.089	±24	±0.1
Minimum Voltage	50	85	8.5	18.041		

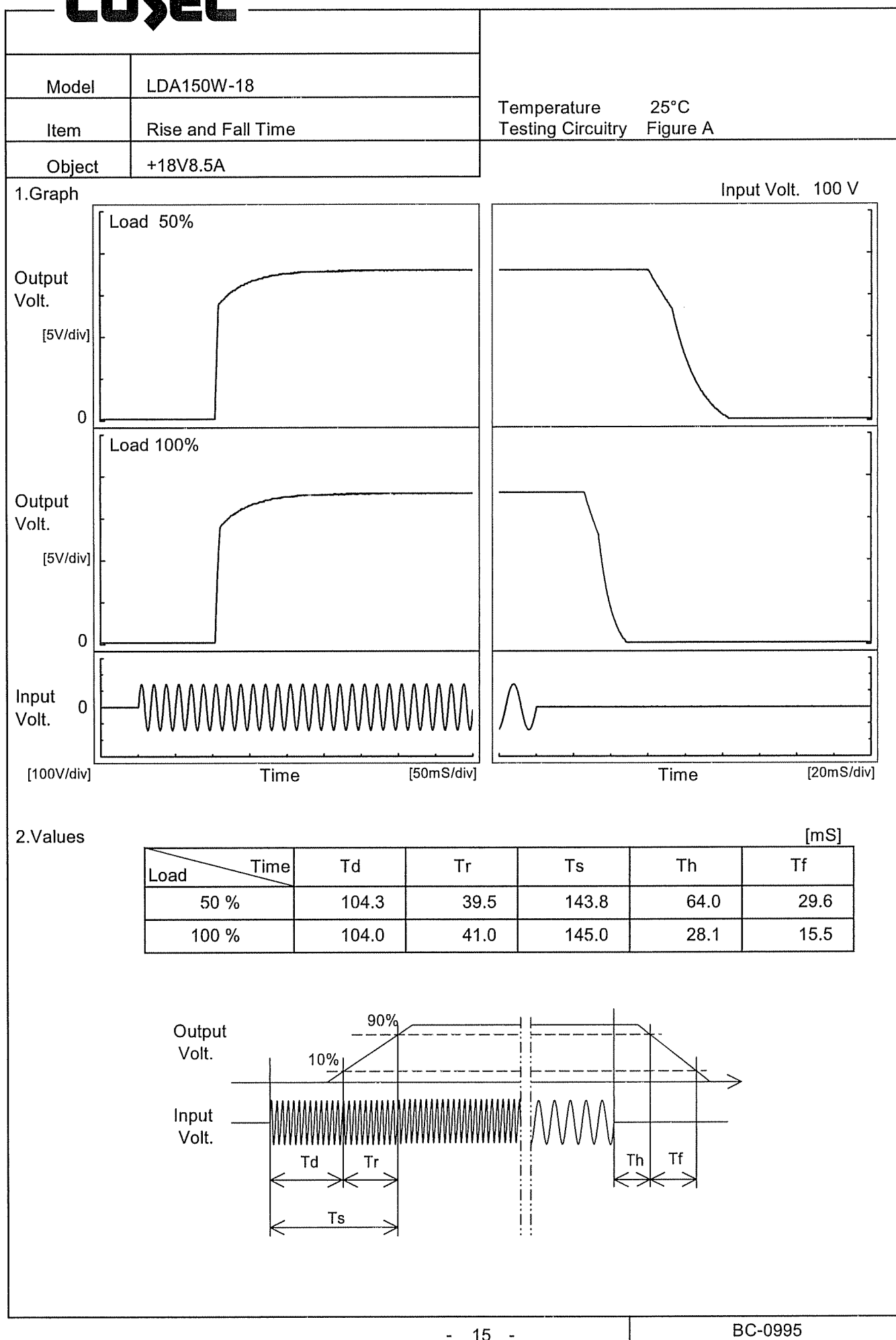


Model	LDA150W-18																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+18V8.5A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div></div> <div>Output Voltage [V]</div> <div>Time [H]</div> <div>Input Volt. 100V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>18.077</td></tr><tr><td>0.5</td><td>18.065</td></tr><tr><td>1.0</td><td>18.065</td></tr><tr><td>2.0</td><td>18.065</td></tr><tr><td>3.0</td><td>18.066</td></tr><tr><td>4.0</td><td>18.066</td></tr><tr><td>5.0</td><td>18.065</td></tr><tr><td>6.0</td><td>18.065</td></tr><tr><td>7.0</td><td>18.066</td></tr><tr><td>8.0</td><td>18.065</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	18.077	0.5	18.065	1.0	18.065	2.0	18.065	3.0	18.066	4.0	18.066	5.0	18.065	6.0	18.065	7.0	18.066	8.0	18.065
Time since start [H]	Output Voltage [V]																								
0.0	18.077																								
0.5	18.065																								
1.0	18.065																								
2.0	18.065																								
3.0	18.066																								
4.0	18.066																								
5.0	18.065																								
6.0	18.065																								
7.0	18.066																								
8.0	18.065																								

- 14 -

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Model	LDA150W-18	Temperature 25°C Testing Circuitry Figure A																																	
Item	Hold-Up Time																																		
Object	+18V8.5A																																		
1.Graph		2.Values																																	
<div><div><div>---</div><div>□</div><div>---</div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div><div>Load 100%</div></div></div> <p>Hold-Up Time [ms]</p> <p>Input Voltage [V]</p> <p>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.</p>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [ms]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>21</td><td>6</td></tr><tr><td>80</td><td>28</td><td>10</td></tr><tr><td>85</td><td>36</td><td>14</td></tr><tr><td>90</td><td>44</td><td>18</td></tr><tr><td>100</td><td>61</td><td>27</td></tr><tr><td>110</td><td>80</td><td>36</td></tr><tr><td>120</td><td>101</td><td>47</td></tr><tr><td>132</td><td>128</td><td>61</td></tr><tr><td>140</td><td>147</td><td>71</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	75	21	6	80	28	10	85	36	14	90	44	18	100	61	27	110	80	36	120	101	47	132	128	61	140	147	71
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
75	21	6																																	
80	28	10																																	
85	36	14																																	
90	44	18																																	
100	61	27																																	
110	80	36																																	
120	101	47																																	
132	128	61																																	
140	147	71																																	

Model		LDA150W-18																																																				
Item		Instantaneous Interruption Compensation																																																				
Object		+18V8.5A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>85V</div></div><div><div>---□---</div><div>Input Volt.</div><div>100V</div></div><div><div>---○---</div><div>Input Volt.</div><div>132V</div></div></div> <div><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div>Load Current [A]</div></div></div> <div>Note: Slanted line shows the range of the rated load current.</div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.50</td><td>99</td><td>170</td><td>341</td></tr><tr><td>3.00</td><td>50</td><td>82</td><td>196</td></tr><tr><td>4.50</td><td>26</td><td>50</td><td>122</td></tr><tr><td>6.00</td><td>18</td><td>34</td><td>95</td></tr><tr><td>7.50</td><td>15</td><td>26</td><td>71</td></tr><tr><td>8.50</td><td>10</td><td>18</td><td>62</td></tr><tr><td>9.35</td><td>10</td><td>17</td><td>53</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>		Load Current [A]	Time [ms]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	-	-	-	1.50	99	170	341	3.00	50	82	196	4.50	26	50	122	6.00	18	34	95	7.50	15	26	71	8.50	10	18	62	9.35	10	17	53	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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Model	LDA150W-18																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+18V8.5A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div>Input Volt. 85V</div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 132V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>18.0</td><td>10.64</td><td>10.54</td><td>10.55</td></tr><tr><td>17.1</td><td>10.66</td><td>10.58</td><td>10.60</td></tr><tr><td>16.2</td><td>10.68</td><td>10.62</td><td>10.66</td></tr><tr><td>14.4</td><td>10.74</td><td>10.70</td><td>10.79</td></tr><tr><td>12.6</td><td>10.81</td><td>10.82</td><td>10.86</td></tr><tr><td>10.8</td><td>10.87</td><td>10.88</td><td>10.97</td></tr><tr><td>9.0</td><td>10.95</td><td>10.96</td><td>11.00</td></tr><tr><td>7.2</td><td>10.98</td><td>10.98</td><td>11.09</td></tr><tr><td>5.4</td><td>11.04</td><td>11.07</td><td>11.14</td></tr><tr><td>3.6</td><td>11.09</td><td>11.07</td><td>11.06</td></tr><tr><td>1.8</td><td>10.76</td><td>10.65</td><td>10.56</td></tr><tr><td>0.0</td><td>10.80</td><td>10.73</td><td>10.89</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	18.0	10.64	10.54	10.55	17.1	10.66	10.58	10.60	16.2	10.68	10.62	10.66	14.4	10.74	10.70	10.79	12.6	10.81	10.82	10.86	10.8	10.87	10.88	10.97	9.0	10.95	10.96	11.00	7.2	10.98	10.98	11.09	5.4	11.04	11.07	11.14	3.6	11.09	11.07	11.06	1.8	10.76	10.65	10.56	0.0	10.80	10.73	10.89
Output Voltage [V]	Load Current [A]																																																									
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Model		LDA150W-18																																																				
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Object		+18V8.5A																																																				
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<div><div><div>—△—</div><div>Input Volt. 85V</div></div><div><div>---□---</div><div>Input Volt. 100V</div></div><div><div>-·-○-·-</div><div>Input Volt. 132V</div></div></div> <p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</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">Operating Point [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>-20</td><td>22.32</td><td>22.21</td><td>22.27</td></tr><tr><td>-10</td><td>22.50</td><td>22.45</td><td>22.38</td></tr><tr><td>0</td><td>22.62</td><td>22.62</td><td>22.62</td></tr><tr><td>10</td><td>22.86</td><td>22.80</td><td>22.80</td></tr><tr><td>20</td><td>22.97</td><td>22.97</td><td>22.97</td></tr><tr><td>25</td><td>23.09</td><td>23.09</td><td>23.03</td></tr><tr><td>30</td><td>23.21</td><td>23.15</td><td>23.09</td></tr><tr><td>40</td><td>23.32</td><td>23.32</td><td>23.32</td></tr><tr><td>50</td><td>23.50</td><td>23.50</td><td>23.50</td></tr><tr><td>60</td><td>23.62</td><td>23.62</td><td>23.62</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Operating Point [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	22.32	22.21	22.27	-10	22.50	22.45	22.38	0	22.62	22.62	22.62	10	22.86	22.80	22.80	20	22.97	22.97	22.97	25	23.09	23.09	23.03	30	23.21	23.15	23.09	40	23.32	23.32	23.32	50	23.50	23.50	23.50	60	23.62	23.62	23.62	--	-	-	-
Ambient Temperature [°C]	Operating Point [V]																																																					
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50	23.50	23.50	23.50																																																			
60	23.62	23.62	23.62																																																			
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- 20 -

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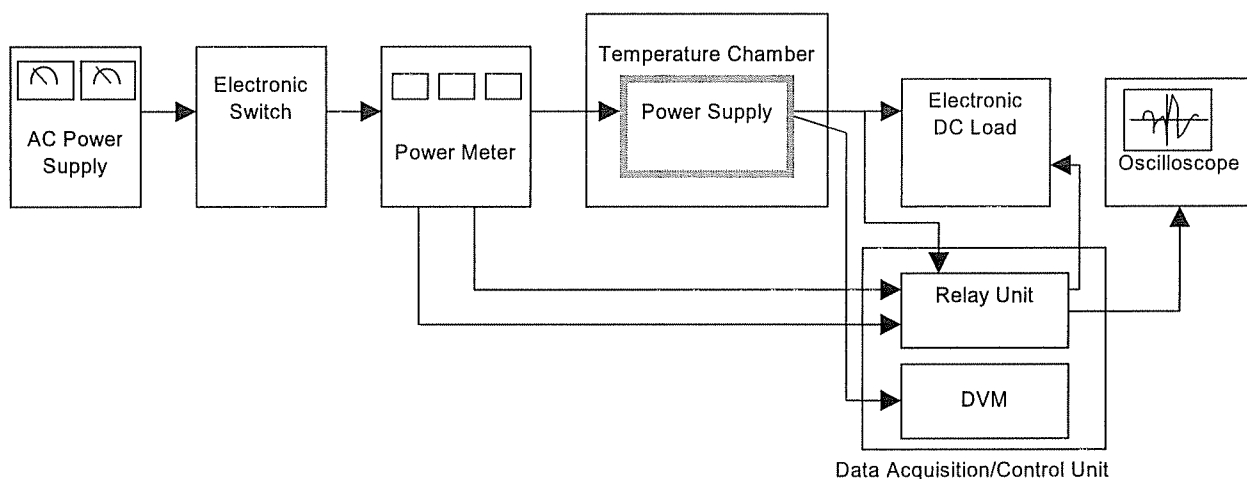


Figure A

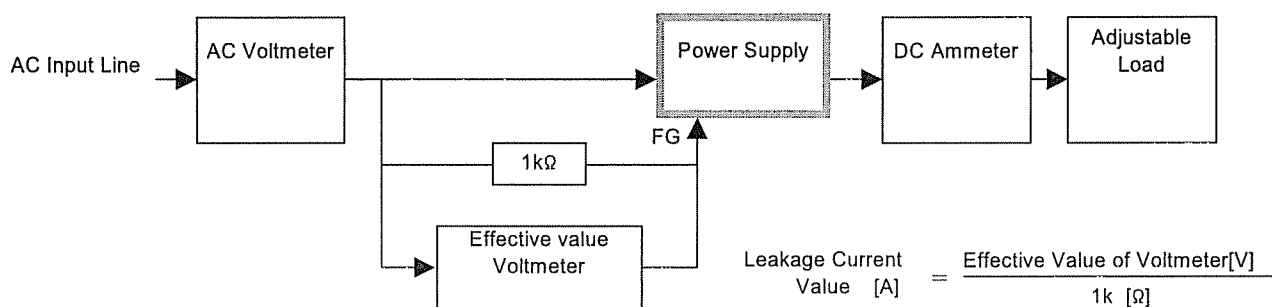


Figure B (DEN-AN)

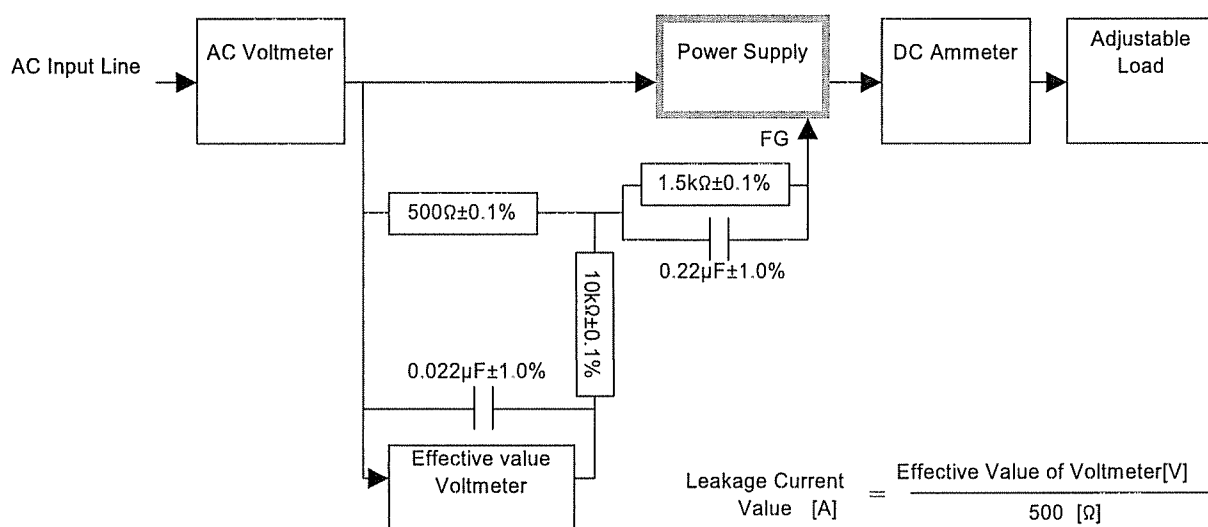


Figure B (IEC60950)