



TEST DATA OF LDA100W-24-H

(200V INPUT)

Regulated DC Power Supply
Jan.18. 2005

Approved by : K. Shiho Design Manager

Prepared by : S. Ueda Design Engineer

COSEL CO.,LTD.

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(Final Page 21)

Model		LDA100W-24-H	
Item		Input Current (by Load Current)	
Object			
1.Graph		2.Values	

—△—

Input Volt.

170V

---□---

Input Volt.

200V

---○---

Input Volt.

264V

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

Load Current [A]	Input Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.063	0.074	0.086
0.80	0.326	0.316	0.271
1.60	0.573	0.525	0.448
2.40	0.805	0.722	0.608
3.20	1.026	0.926	0.768
4.00	1.253	1.124	0.928
4.30	1.336	1.200	0.995
4.73	1.453	1.302	1.081
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--	-	-	-
--	-	-	-

- 2 -

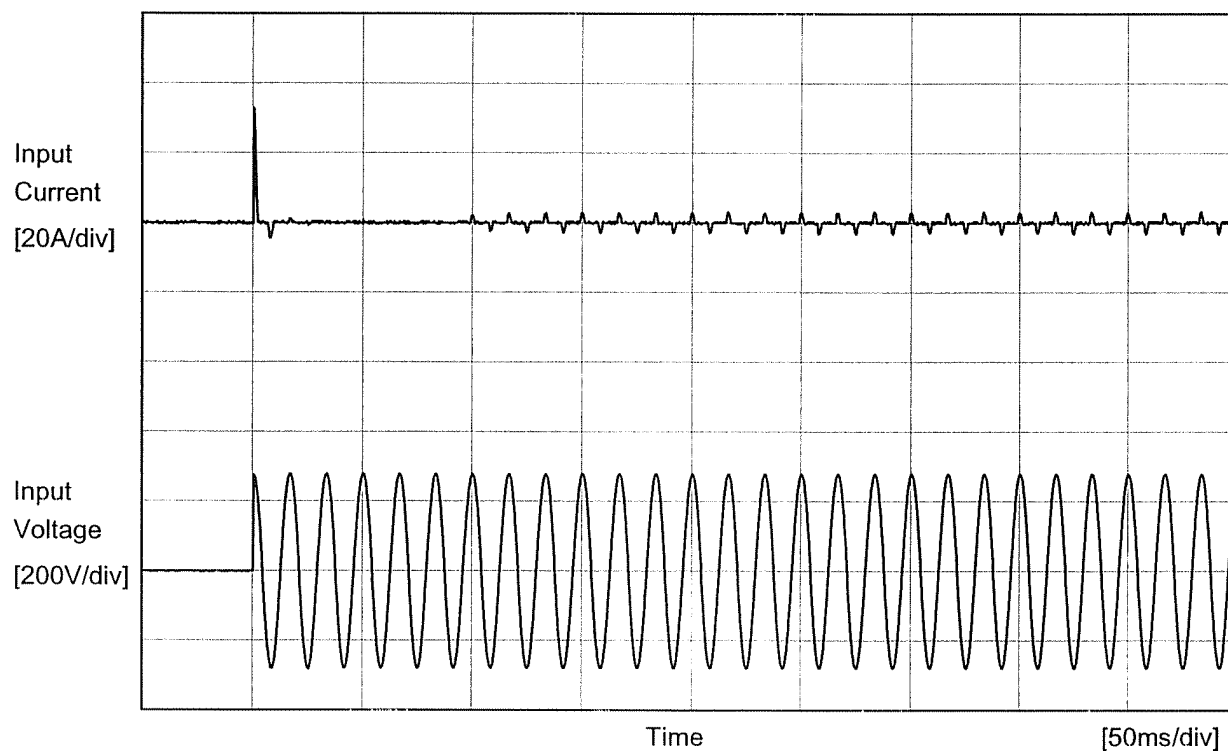
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Model		LDA100W-24-H		Temperature Testing Circuitry	25°C Figure A																																																			
Item		Efficiency (by Load Current)																																																						
Object		_____																																																						
1.Graph				2.Values																																																				
<div><div><div>—△— Input Volt. 170V</div><div>---□--- Input Volt. 200V</div><div>-·-○-·- Input Volt. 264V</div></div><div>Efficiency [%]</div><div>Load Current [A]</div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.80</td><td>73.1</td><td>71.0</td><td>64.6</td></tr><tr><td>1.60</td><td>79.5</td><td>77.8</td><td>72.7</td></tr><tr><td>2.40</td><td>82.9</td><td>81.9</td><td>78.1</td></tr><tr><td>3.20</td><td>84.8</td><td>83.9</td><td>81.1</td></tr><tr><td>4.00</td><td>85.9</td><td>85.1</td><td>82.8</td></tr><tr><td>4.30</td><td>86.0</td><td>85.4</td><td>83.4</td></tr><tr><td>4.73</td><td>86.3</td><td>85.8</td><td>84.2</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]	Efficiency [%]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.00	-	-	-	0.80	73.1	71.0	64.6	1.60	79.5	77.8	72.7	2.40	82.9	81.9	78.1	3.20	84.8	83.9	81.1	4.00	85.9	85.1	82.8	4.30	86.0	85.4	83.4	4.73	86.3	85.8	84.2	--	--	-	-	--	-	-	-	--	-	-	-
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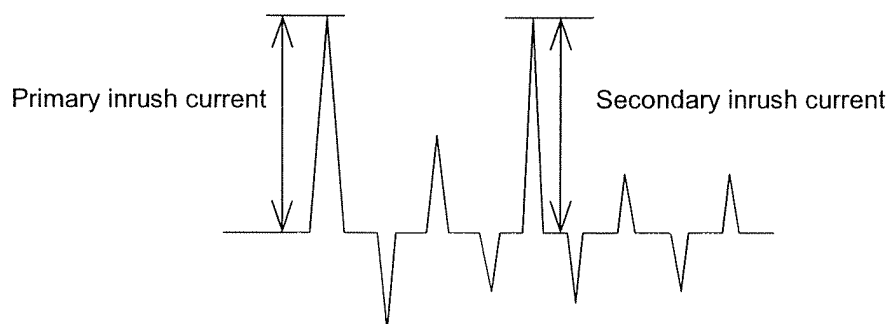
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Model	LDA100W-24-H	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			



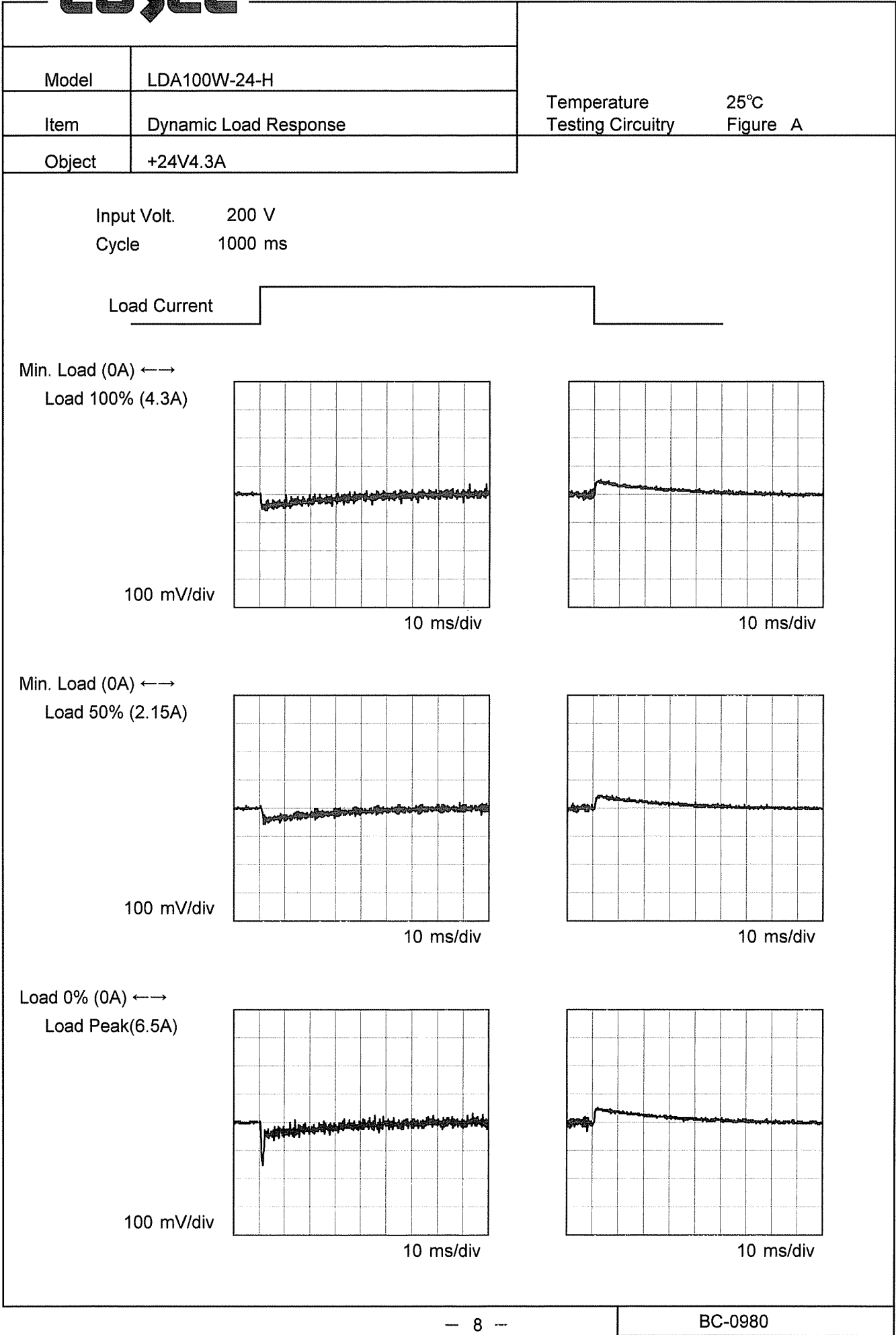
Input Voltage 200 V
Frequency 60 Hz
Load 100 %

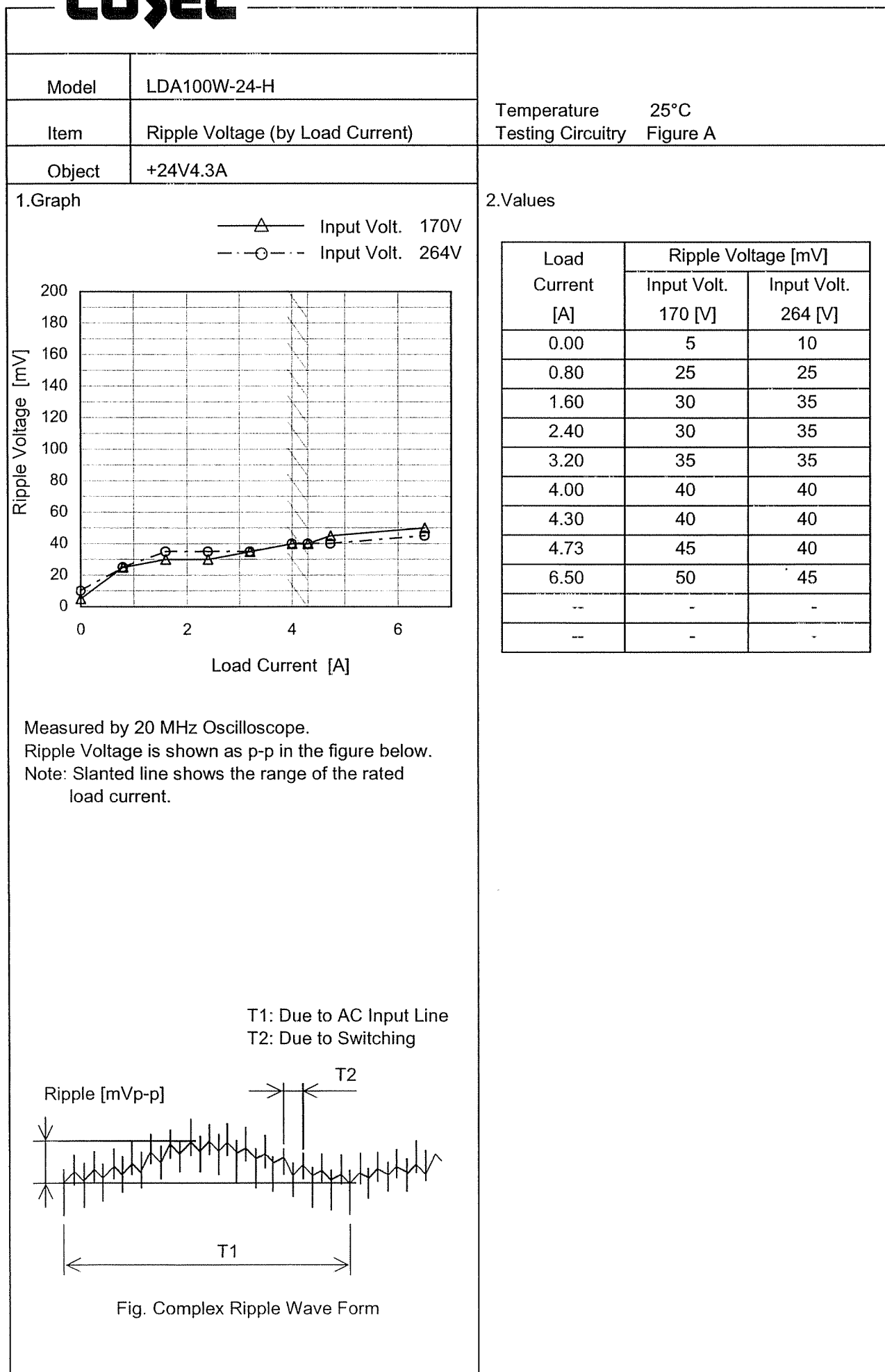
Primary inrush current 32.7 A
Secondary inrush current 3.3 A

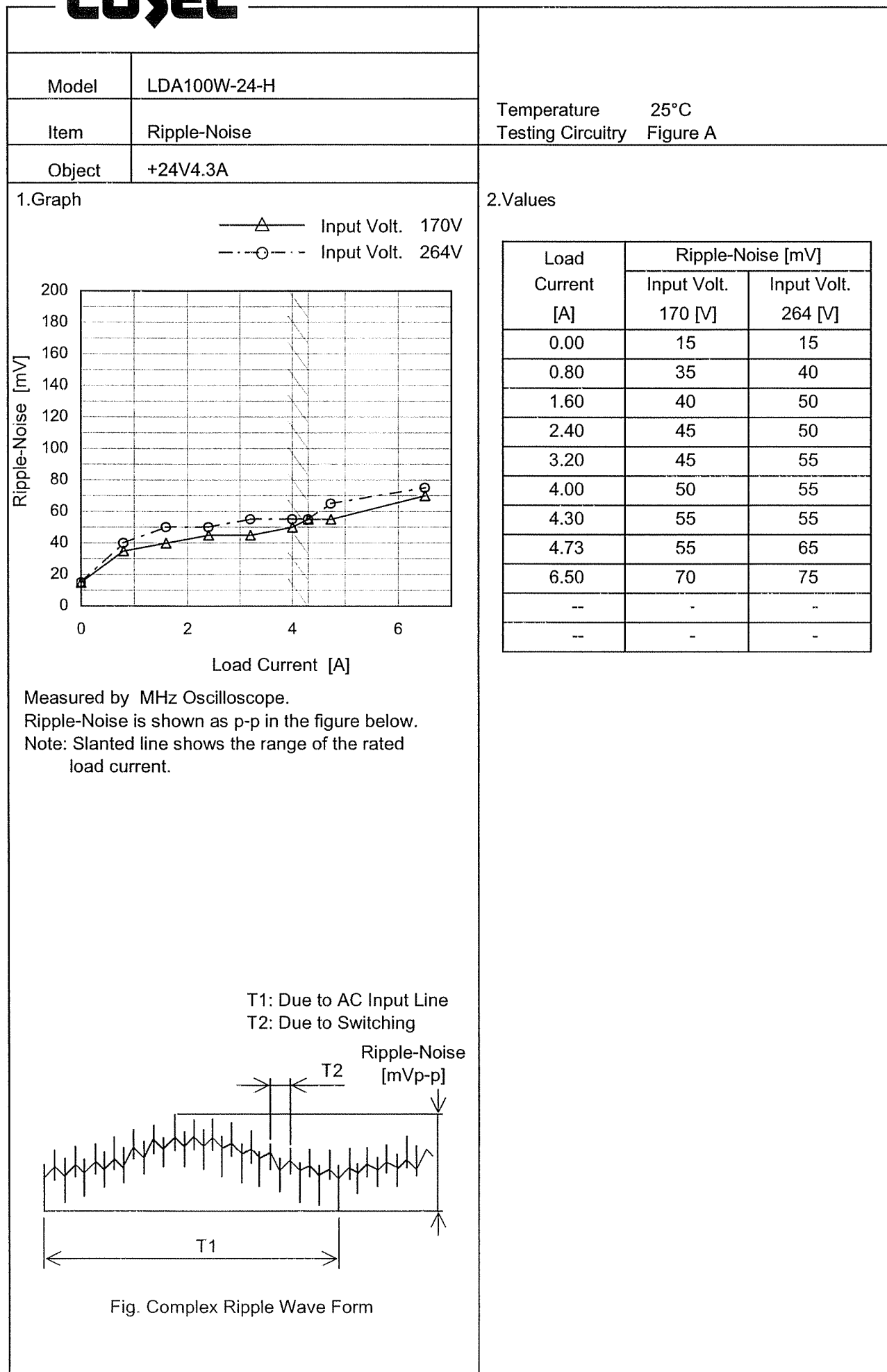


Model	LDA100W-24-H	Temperature25°C Testing CircuitryFigure A																															
Item	Line Regulation																																
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Model		LDA100W-24-H																																						
Item		Ripple Voltage (by Ambient Temp.)																																						
Object		+24V4.3A																																						
1.Graph		<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>Input Volt. 200V</p>																																						
2.Values		<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>75</td><td>80</td></tr><tr><td>-10</td><td>65</td><td>70</td></tr><tr><td>0</td><td>50</td><td>55</td></tr><tr><td>10</td><td>50</td><td>55</td></tr><tr><td>25</td><td>40</td><td>45</td></tr><tr><td>40</td><td>40</td><td>45</td></tr><tr><td>50</td><td>35</td><td>40</td></tr><tr><td>60</td><td>35</td><td>40</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></table>	Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-20	75	80	-10	65	70	0	50	55	10	50	55	25	40	45	40	40	45	50	35	40	60	35	40	--	-	-	--	-	-	--	-	-
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Measured by 20 MHz Oscilloscope.																																								
Note: Slanted line shows the range of the rated ambient temperature.																																								

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		Testing Circuitry Figure A
Model	LDA100W-24-H	
Item	Output Voltage Accuracy	
Object	+24V4.3A	

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 : 170 - 264V

Load Current : 0 - 4.3A

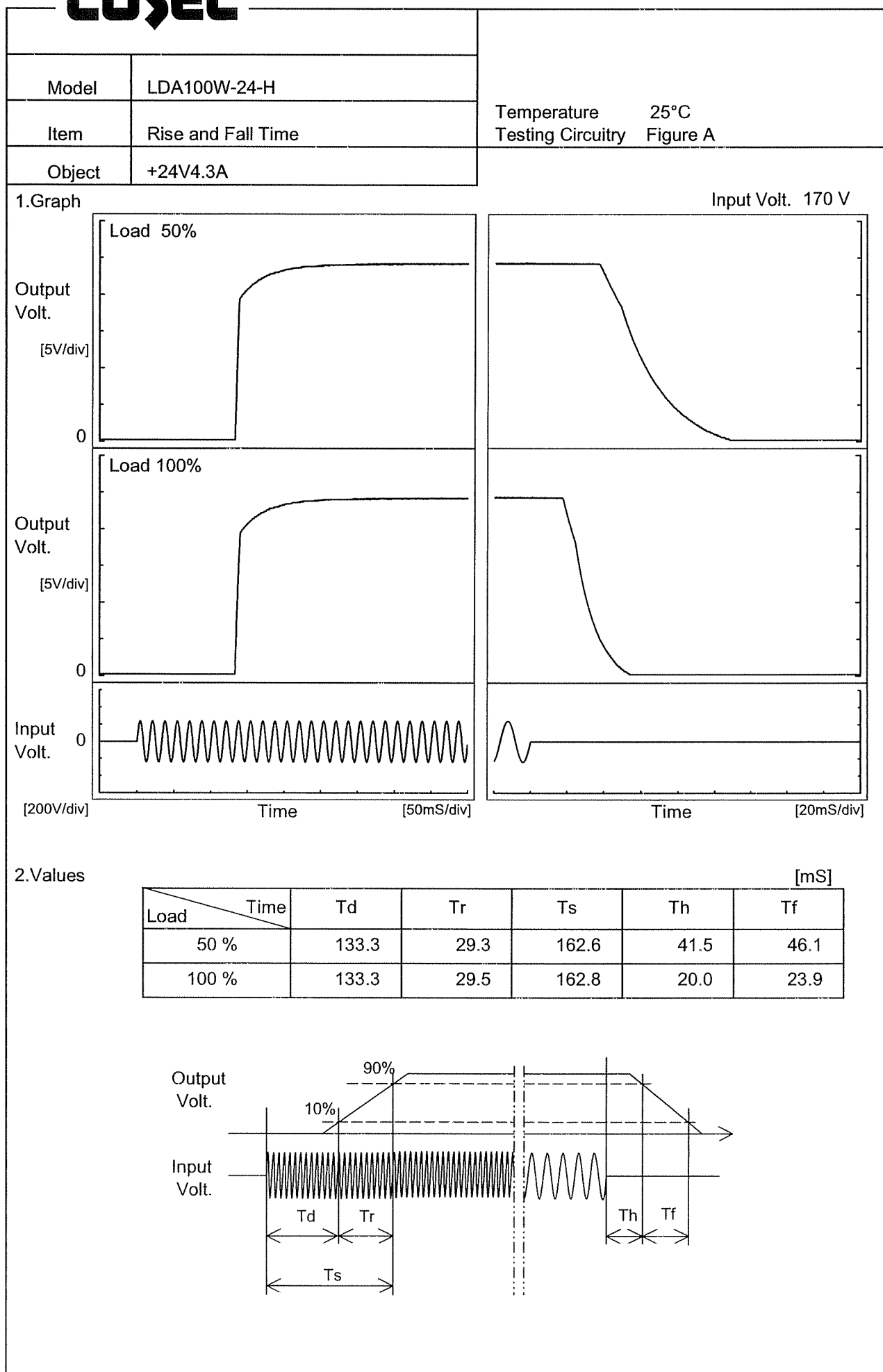
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* 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	-10	170	0	24.315	±28	±0.1
Minimum Voltage	50	170	4.3	24.259		

Model	LDA100W-24-H	Temperature 25°C Testing Circuitry Figure A	
Item	Time Lapse Drift		
Object	+24V4.3A		
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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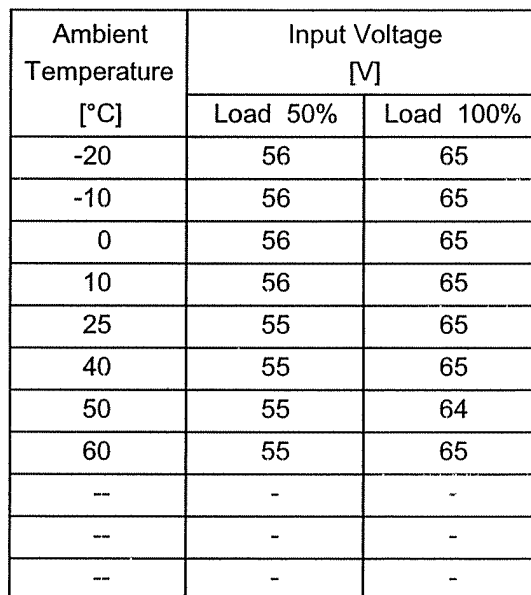


Model		LDA100W-24-H																																	
Item		Hold-Up Time																																	
Object		+24V4.3A																																	
1.Graph		Temperature 25°C Testing Circuitry Figure A																																	
<div>1000 100 10 1</div> <div>140180220260300</div> <div>Hold-Up Time [ms]</div> <div>Input Voltage [V]</div> <div><div>---□---</div>Load 50%<div>---△---</div>Load 100%</div>		2.Values																																	
		<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>150</td><td>25</td><td>11</td></tr><tr><td>160</td><td>31</td><td>15</td></tr><tr><td>170</td><td>38</td><td>18</td></tr><tr><td>180</td><td>45</td><td>22</td></tr><tr><td>200</td><td>61</td><td>30</td></tr><tr><td>220</td><td>77</td><td>39</td></tr><tr><td>240</td><td>96</td><td>49</td></tr><tr><td>264</td><td>120</td><td>62</td></tr><tr><td>280</td><td>137</td><td>71</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	150	25	11	160	31	15	170	38	18	180	45	22	200	61	30	220	77	39	240	96	49	264	120	62	280	137	71
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200	61	30																																	
220	77	39																																	
240	96	49																																	
264	120	62																																	
280	137	71																																	
<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p>																																			

Model		LDA100W-24-H		Temperature		25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry		Figure A																																																				
Object		+24V4.3A																																																								
1.Graph				2.Values																																																						
<div><div><div>—△—</div><div>Input Volt. 170V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>-○-</div><div>Input Volt. 264V</div></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>				<table><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><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.80</td><td>95</td><td>161</td><td>303</td></tr><tr><td>1.60</td><td>64</td><td>82</td><td>161</td></tr><tr><td>2.40</td><td>43</td><td>56</td><td>108</td></tr><tr><td>3.20</td><td>30</td><td>40</td><td>90</td></tr><tr><td>4.00</td><td>25</td><td>36</td><td>70</td></tr><tr><td>4.30</td><td>22</td><td>36</td><td>66</td></tr><tr><td>4.73</td><td>21</td><td>28</td><td>62</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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.00	-	-	-	0.80	95	161	303	1.60	64	82	161	2.40	43	56	108	3.20	30	40	90	4.00	25	36	70	4.30	22	36	66	4.73	21	28	62	--	-	-	-	--	-	-	-	--	-	-	-
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Testing Circuitry Figure A

2.Values



- 18 -

BC-0980

1. Graph

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

Operating Point [V]

Ambient Temperature [°C]

Load 0%

Ambient Temperature [°C]	Operating Point [V] (200V)
-20	29.4
-10	29.6
0	29.8
10	30.0
25	30.4
40	30.7
50	30.9
60	31.0

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt.	Input Volt.	Input Volt.
	170[V]	200[V]	264[V]
-20	29.59	29.59	29.59
-10	29.82	29.82	29.82
0	30.00	30.00	30.00
10	30.23	30.23	30.23
25	30.58	30.58	30.58
40	30.81	30.81	30.81
50	31.05	31.05	31.05
60	31.28	31.28	31.28
--	-	-	-
--	-	-	-
--	-	-	-

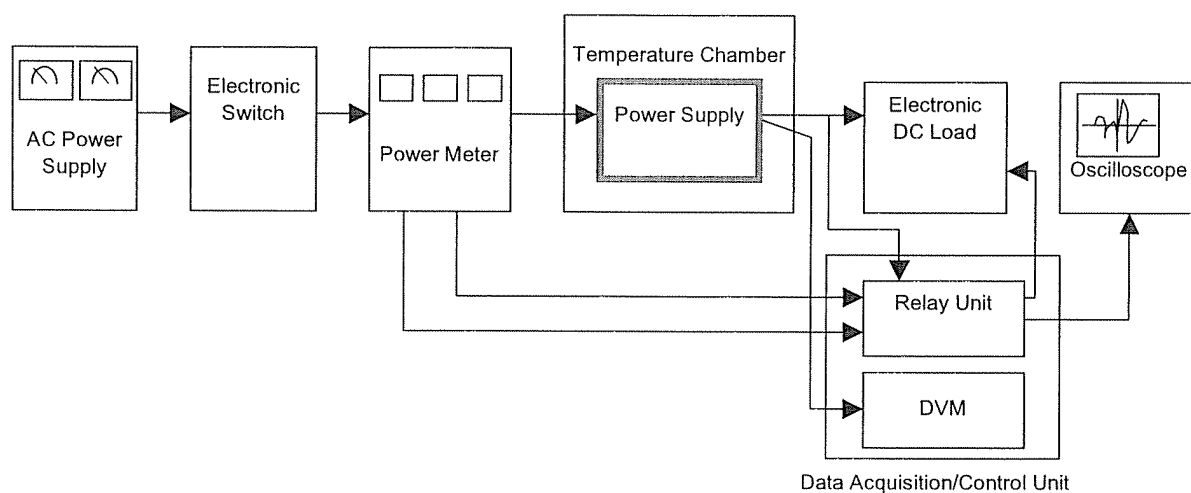


Figure A

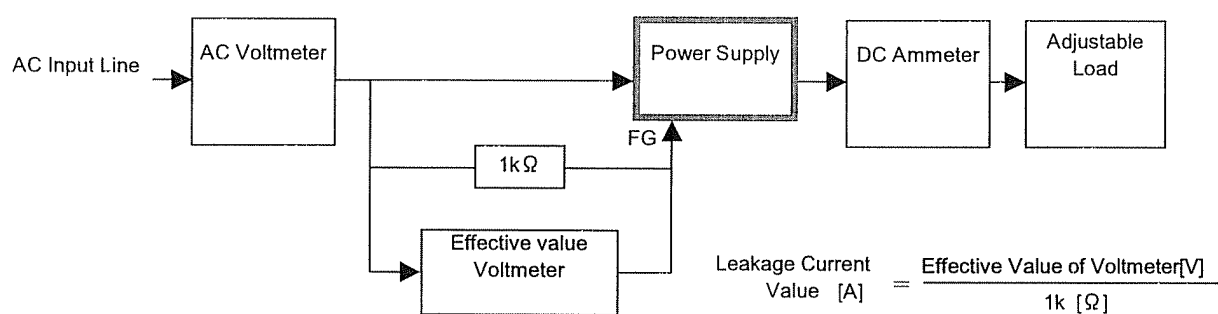


Figure B (DEN-AN)

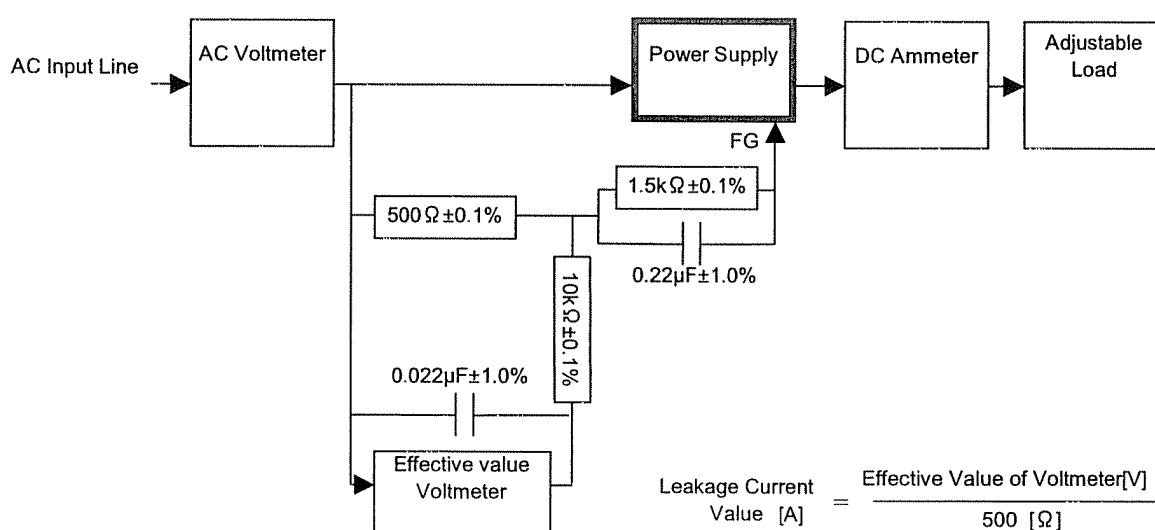


Figure B (IEC60950)