



TEST DATA OF LDA100W-9

(100V INPUT)

Regulated DC Power Supply
Dec.9. 2004

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K. Shiho Design Manager

Prepared by : S. Ueda
S. Ueda Design Engineer

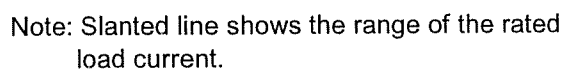
COSEL CO.,LTD.

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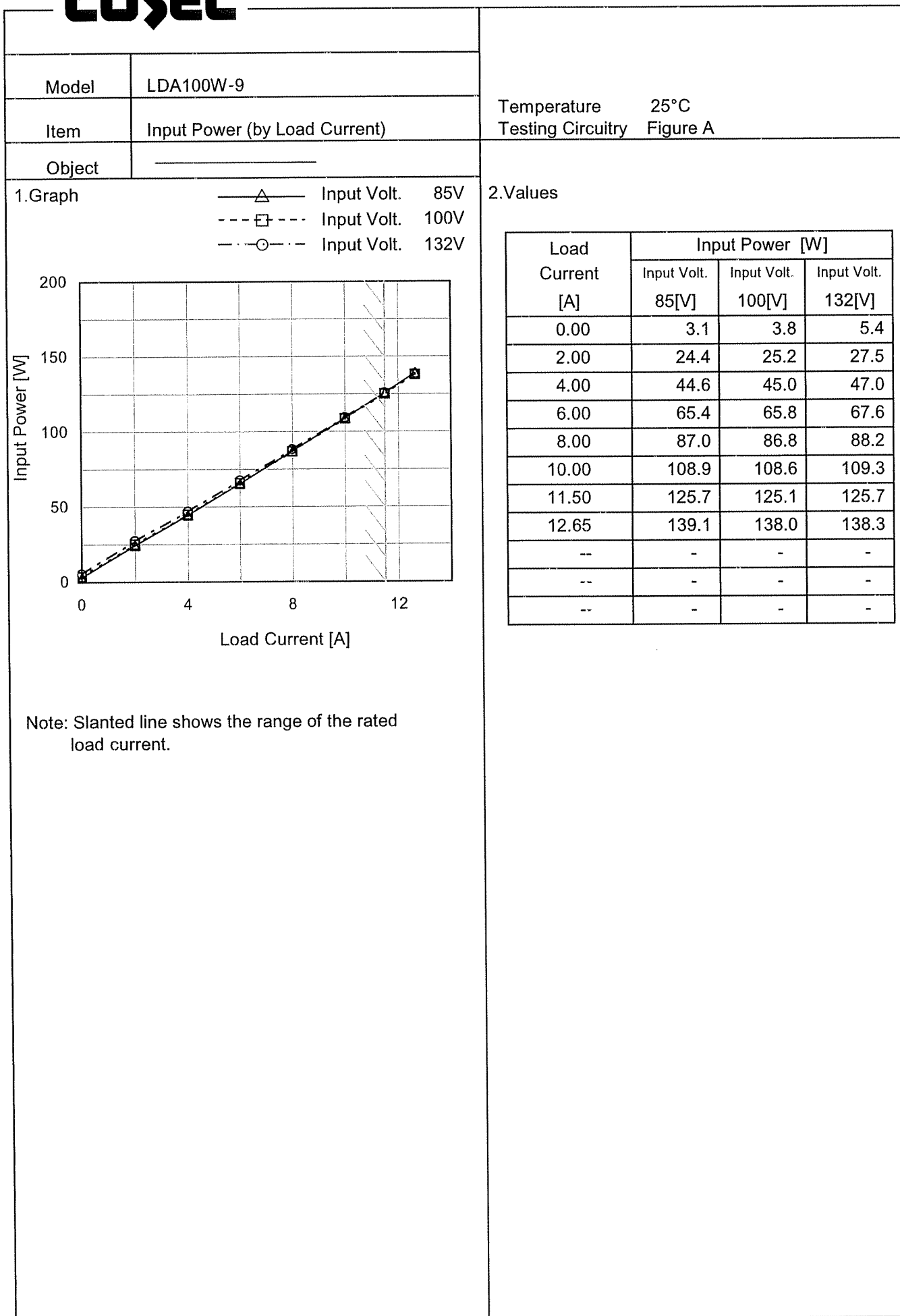
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Temperature 25°C
Testing Circuitry Figure A



Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.130	0.138	0.153
2.00	0.603	0.584	0.517
4.00	0.996	0.925	0.794
6.00	1.395	1.261	1.063
8.00	1.792	1.603	1.339
10.00	2.196	1.947	1.619
11.50	2.504	2.211	1.831
12.65	2.746	2.416	1.995
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Model		LDA100W-9																																																																	
Item		Efficiency (by Input Voltage)																																																																	
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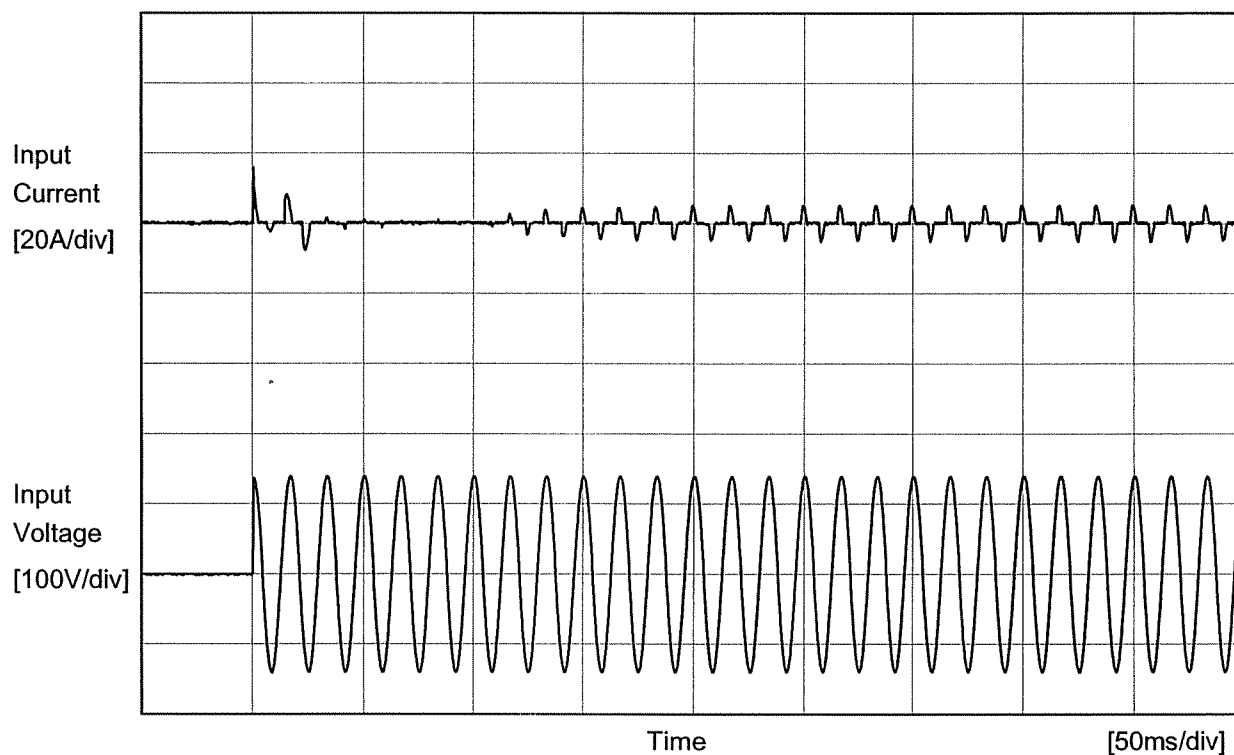
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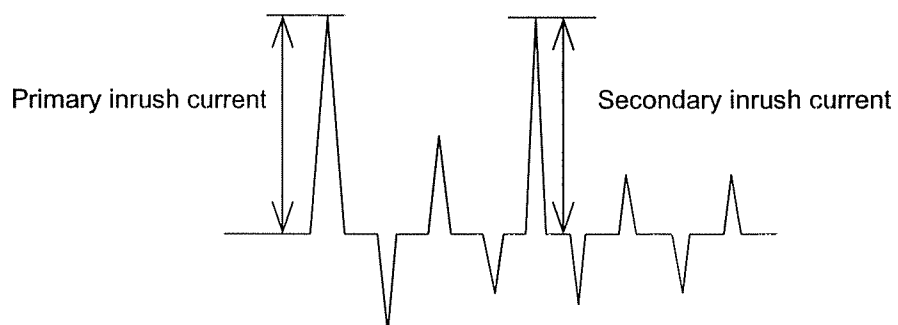
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Model	LDA100W-9	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object	_____		



Input Voltage 100 V
Frequency 60 Hz
Load 100 %




Primary inrush current 16.0 A
Secondary inrush current 5.4 A

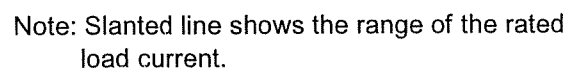


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Model	LDA100W-9																																
Item	Line Regulation	Temperature	25°C																														
Object	+9V11.5A	Testing Circuitry	Figure A																														
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Note: Slanted line shows the range of the rated input voltage.																																	

Temperature	25°C
Testing Circuitry	Figure A

	Input Volt.	85V
	Input Volt.	100V
	Input Volt.	132V



Load Current [A]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	8.931	8.931	8.931
2.00	8.929	8.929	8.929
4.00	8.927	8.927	8.926
6.00	8.925	8.925	8.924
8.00	8.923	8.923	8.922
10.00	8.921	8.920	8.920
11.50	8.919	8.919	8.919
12.65	8.918	8.918	8.918
--	-	-	-
--	-	-	-
--	-	-	-



Model	LDA100W-9	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+9V11.5A		

Input Volt. 100 V
Cycle 1000 ms

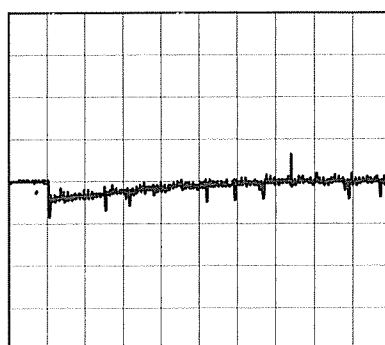
Load Current



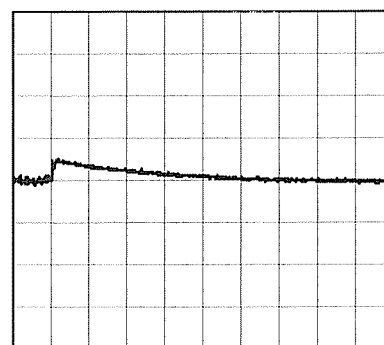
Min. Load (0A) ←→

Load 100% (11.5A)

100 mV/div



10 ms/div

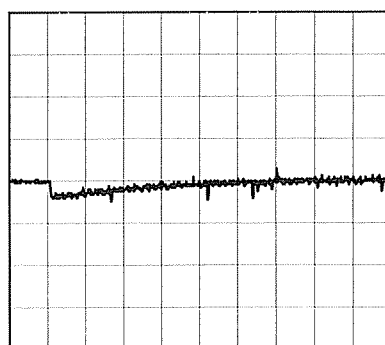


10 ms/div

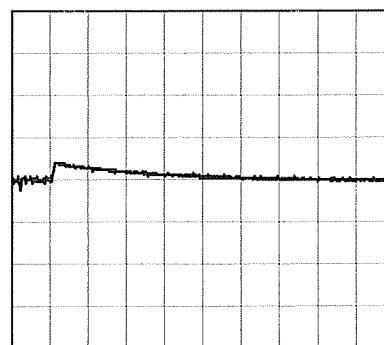
Min. Load (0A) ←→

Load 50% (5.75A)

100 mV/div

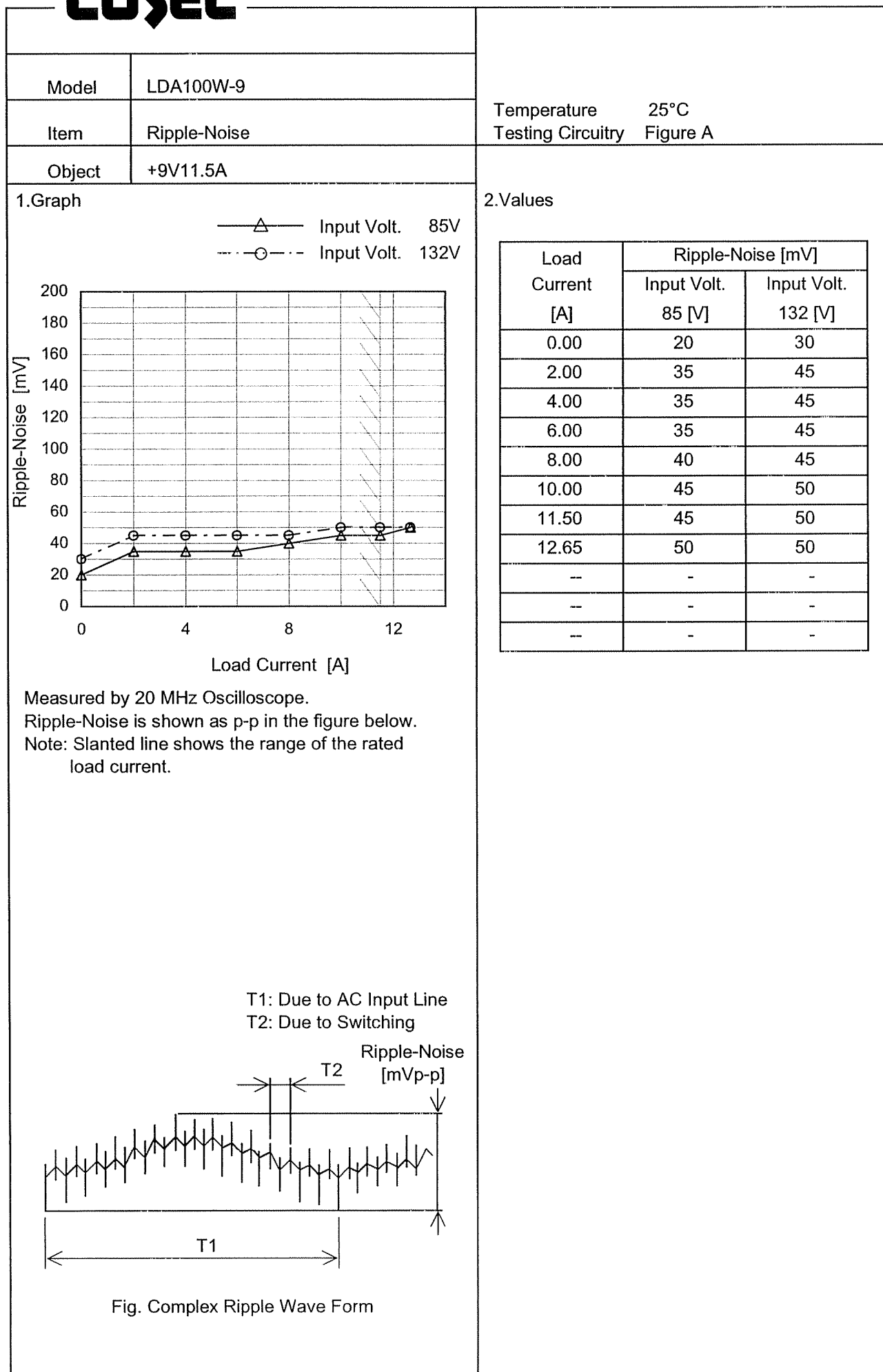


10 ms/div



10 ms/div

Model	LDA100W-9	Temperature 25°C Testing Circuitry Figure A																																							
Item	Ripple Voltage (by Load Current)																																								
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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>																																									
<div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div> <div><p>Ripple [mVp-p]</p><p>T1</p><p>T2</p></div>																																									
Fig. Complex Ripple Wave Form																																									



Model		LDA100W-9
Item		Ripple Voltage (by Ambient Temp.)
Object		+9V11.5A
1.Graph		2.Values

<



Model		LDA100W-9	Testing Circuitry Figure A																																																			
Item		Ambient Temperature Drift																																																				
Object		+9V11.5A																																																				
1.Graph		<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>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>	2.Values																																																			
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Model		LDA100W-9	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+9V11.5A	

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 - 132V

Load Current : 0 - 11.5A

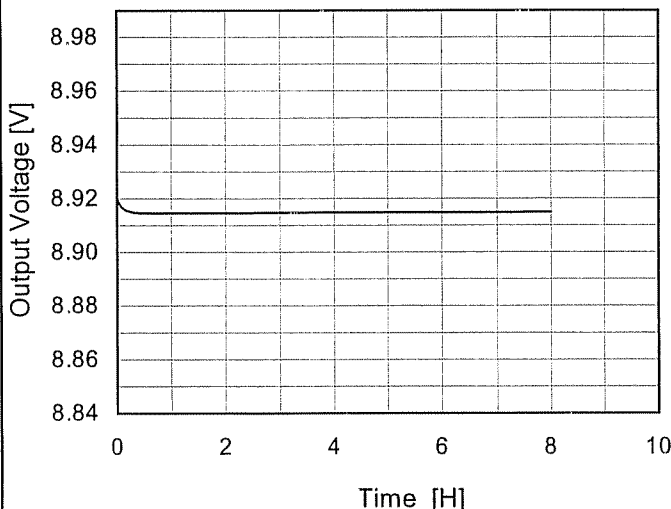
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* 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	-10	85	0	8.938	±14	±0.2
Minimum Voltage	50	85	11.5	8.910		

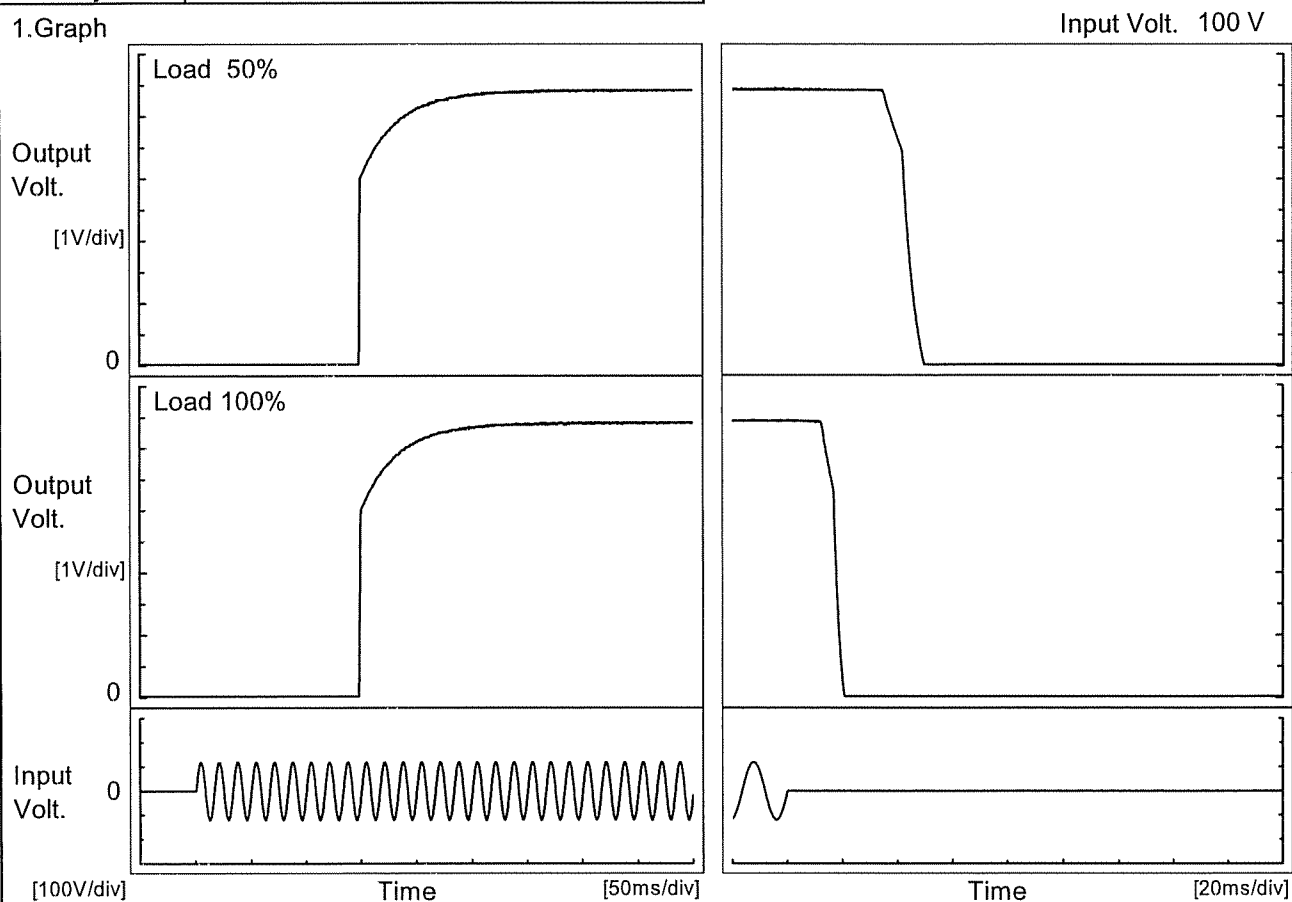
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Item	Time Lapse Drift																								
Object	+9V11.5A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>8.920</td></tr><tr><td>0.5</td><td>8.915</td></tr><tr><td>1.0</td><td>8.915</td></tr><tr><td>2.0</td><td>8.915</td></tr><tr><td>3.0</td><td>8.915</td></tr><tr><td>4.0</td><td>8.915</td></tr><tr><td>5.0</td><td>8.915</td></tr><tr><td>6.0</td><td>8.915</td></tr><tr><td>7.0</td><td>8.915</td></tr><tr><td>8.0</td><td>8.915</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	8.920	0.5	8.915	1.0	8.915	2.0	8.915	3.0	8.915	4.0	8.915	5.0	8.915	6.0	8.915	7.0	8.915	8.0	8.915
Time since start [H]	Output Voltage [V]																								
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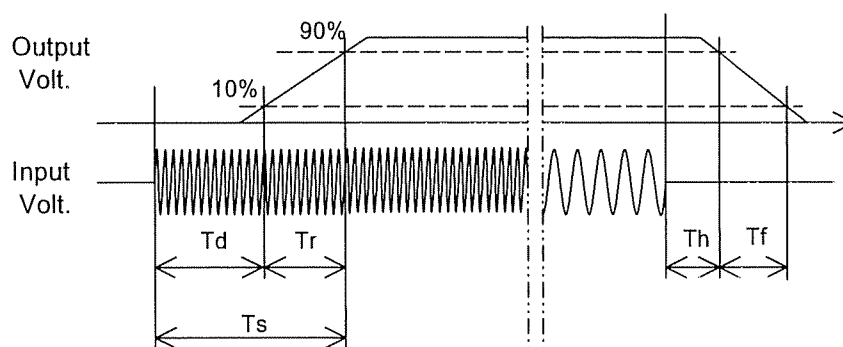
Model	LDA100W-9	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+9V11.5A		

1. Graph



2. Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		148.8	47.3	196.1	36.7	10.9
100 %		148.5	49.0	197.5	13.6	6.2



COSEL

Model	LDA100W-9	Temperature 25°C Testing Circuitry Figure A	
Item	Hold-Up Time		
Object	+9V11.5A		
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><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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	LDA100W-9																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+9V11.5A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<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>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. 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>2.00</td><td>99</td><td>165</td><td>326</td></tr><tr><td>4.00</td><td>50</td><td>90</td><td>180</td></tr><tr><td>6.00</td><td>26</td><td>50</td><td>118</td></tr><tr><td>8.00</td><td>18</td><td>34</td><td>86</td></tr><tr><td>10.00</td><td>17</td><td>26</td><td>65</td></tr><tr><td>11.50</td><td>10</td><td>18</td><td>57</td></tr><tr><td>12.65</td><td>3</td><td>17</td><td>50</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	-	-	-	2.00	99	165	326	4.00	50	90	180	6.00	26	50	118	8.00	18	34	86	10.00	17	26	65	11.50	10	18	57	12.65	3	17	50	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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COSEL

		Testing Circuitry Figure A																																						
Model	LDA100W-9																																							
Item	Minimum Input Voltage for Regulated Output Voltage																																							
Object	+9V11.5A																																							
1.Graph		2.Values																																						
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>-20</td><td>56</td><td>65</td></tr><tr><td>-10</td><td>55</td><td>65</td></tr><tr><td>0</td><td>55</td><td>65</td></tr><tr><td>10</td><td>55</td><td>65</td></tr><tr><td>25</td><td>55</td><td>65</td></tr><tr><td>40</td><td>55</td><td>65</td></tr><tr><td>50</td><td>55</td><td>65</td></tr><tr><td>60</td><td>55</td><td>65</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> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	56	65	-10	55	65	0	55	65	10	55	65	25	55	65	40	55	65	50	55	65	60	55	65	--	-	-	--	-	-	--	-	-	
Ambient Temperature [°C]	Input Voltage [V]																																							
	Load 50%	Load 100%																																						
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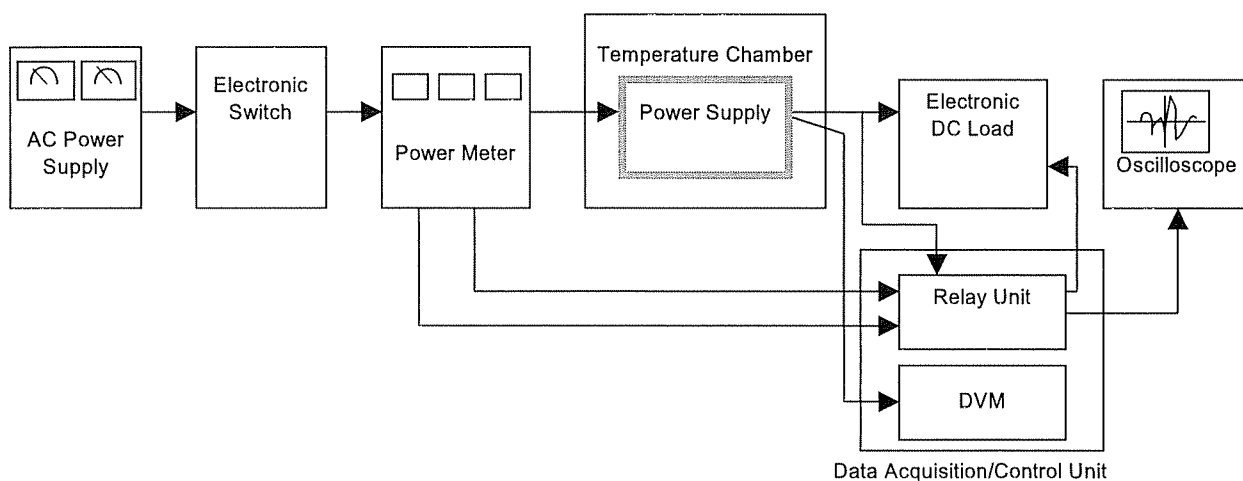


Figure A

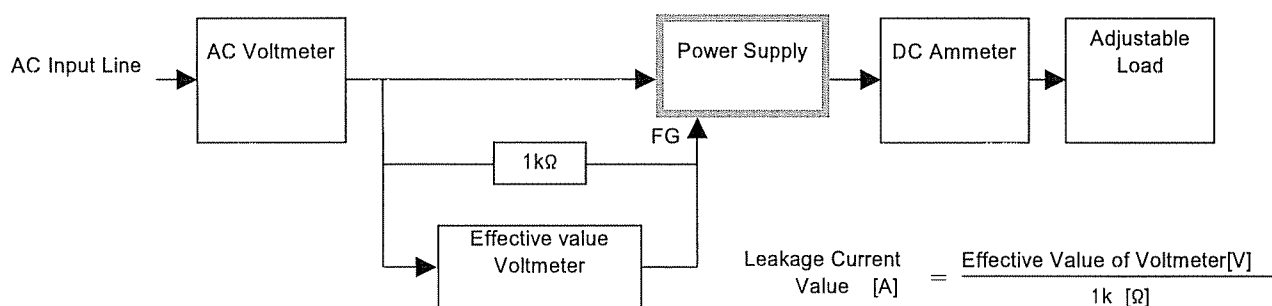


Figure B (DEN-AN)

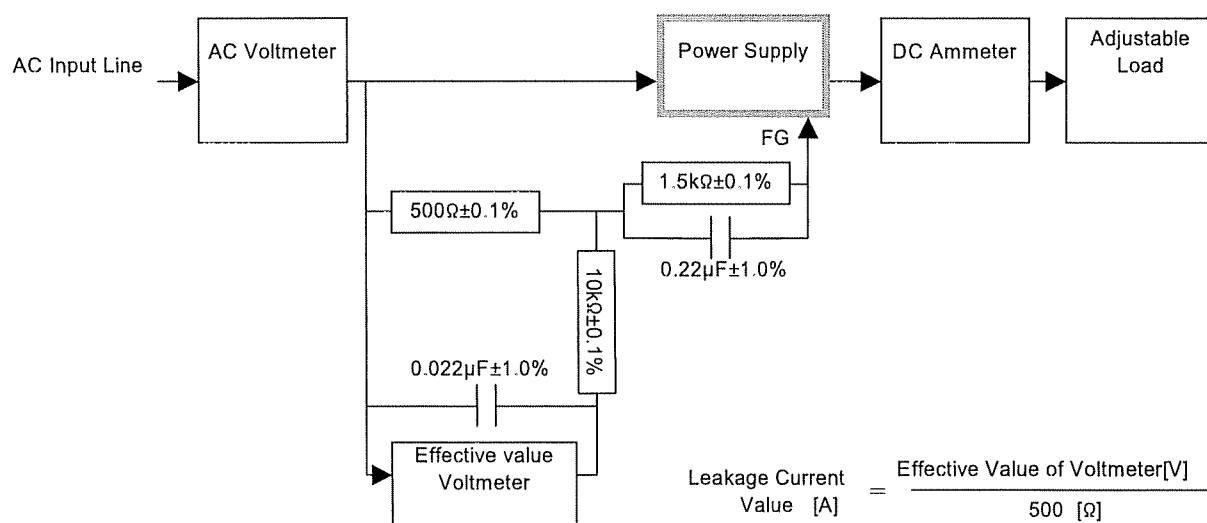


Figure B (IEC60950)