



# TEST DATA OF LDA100W-18

(100V INPUT)

Regulated DC Power Supply  
Dec.9. 2004

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**COSEL CO.,LTD.**

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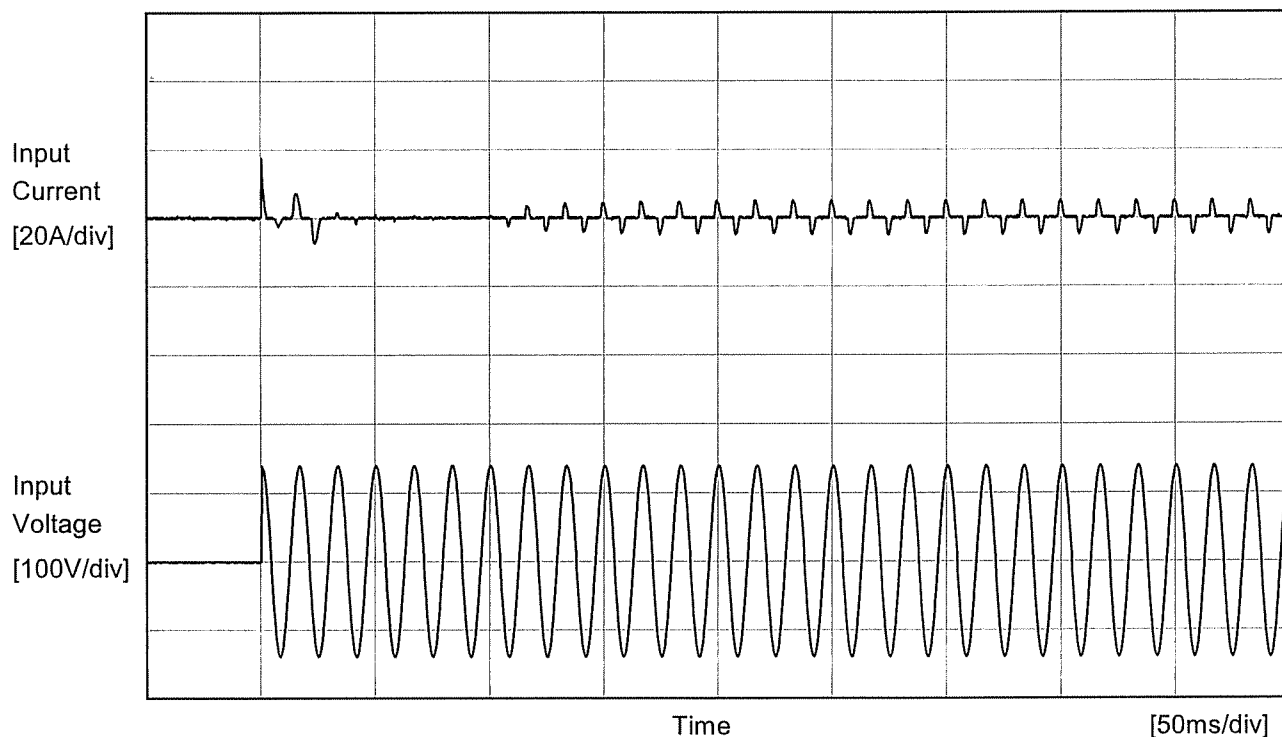
- 1 -

- 2 -

Model	LDA100W-18	Temperature25°C Testing CircuitryFigure A																																	
Item	Efficiency (by Input Voltage)																																		
Object																																			
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">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>75</td><td>81.3</td><td>82.4</td></tr><tr><td>80</td><td>82.1</td><td>83.6</td></tr><tr><td>85</td><td>81.9</td><td>84.0</td></tr><tr><td>90</td><td>81.7</td><td>84.2</td></tr><tr><td>100</td><td>81.0</td><td>84.2</td></tr><tr><td>110</td><td>80.3</td><td>84.1</td></tr><tr><td>120</td><td>79.4</td><td>83.8</td></tr><tr><td>132</td><td>78.3</td><td>84.1</td></tr><tr><td>140</td><td>77.4</td><td>83.7</td></tr></tbody></table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	75	81.3	82.4	80	82.1	83.6	85	81.9	84.0	90	81.7	84.2	100	81.0	84.2	110	80.3	84.1	120	79.4	83.8	132	78.3	84.1	140	77.4	83.7		
Input Voltage [V]	Efficiency [%]																																		
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Note: Slanted line shows the range of the rated input voltage.																																			

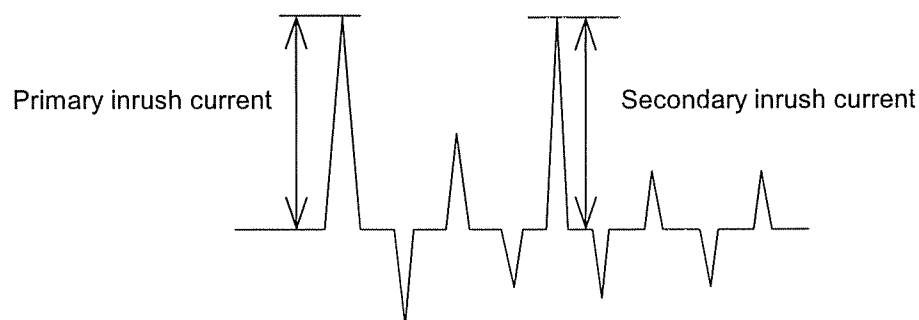
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Model	LDA100W-18	Temperature     25°C Testing Circuitry   Figure A	
Item	Inrush Current		
Object	_____		



Input Voltage            100 V  
Frequency                60 Hz  
Load                        100 %

Primary inrush current    17.5 A  
Secondary inrush current   5.5 A



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Model	LDA100W-18	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+18V5.6A		

Input Volt. 100 V  
Cycle 1000 ms

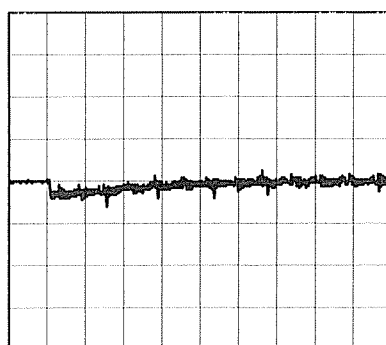
Load Current



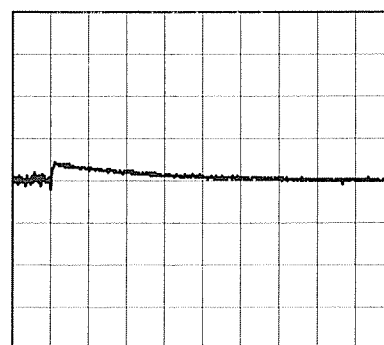
Min. Load (0A) ←→

Load 100% (5.6A)

100 mV/div



10 ms/div

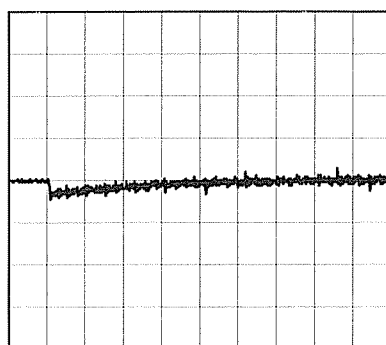


10 ms/div

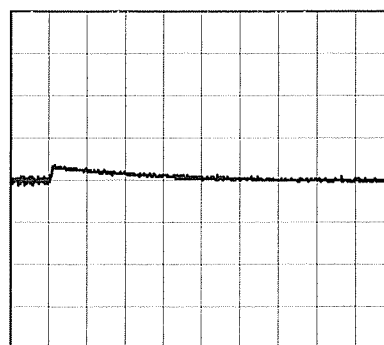
Min. Load (0A) ←→

Load 50% (2.8A)

100 mV/div

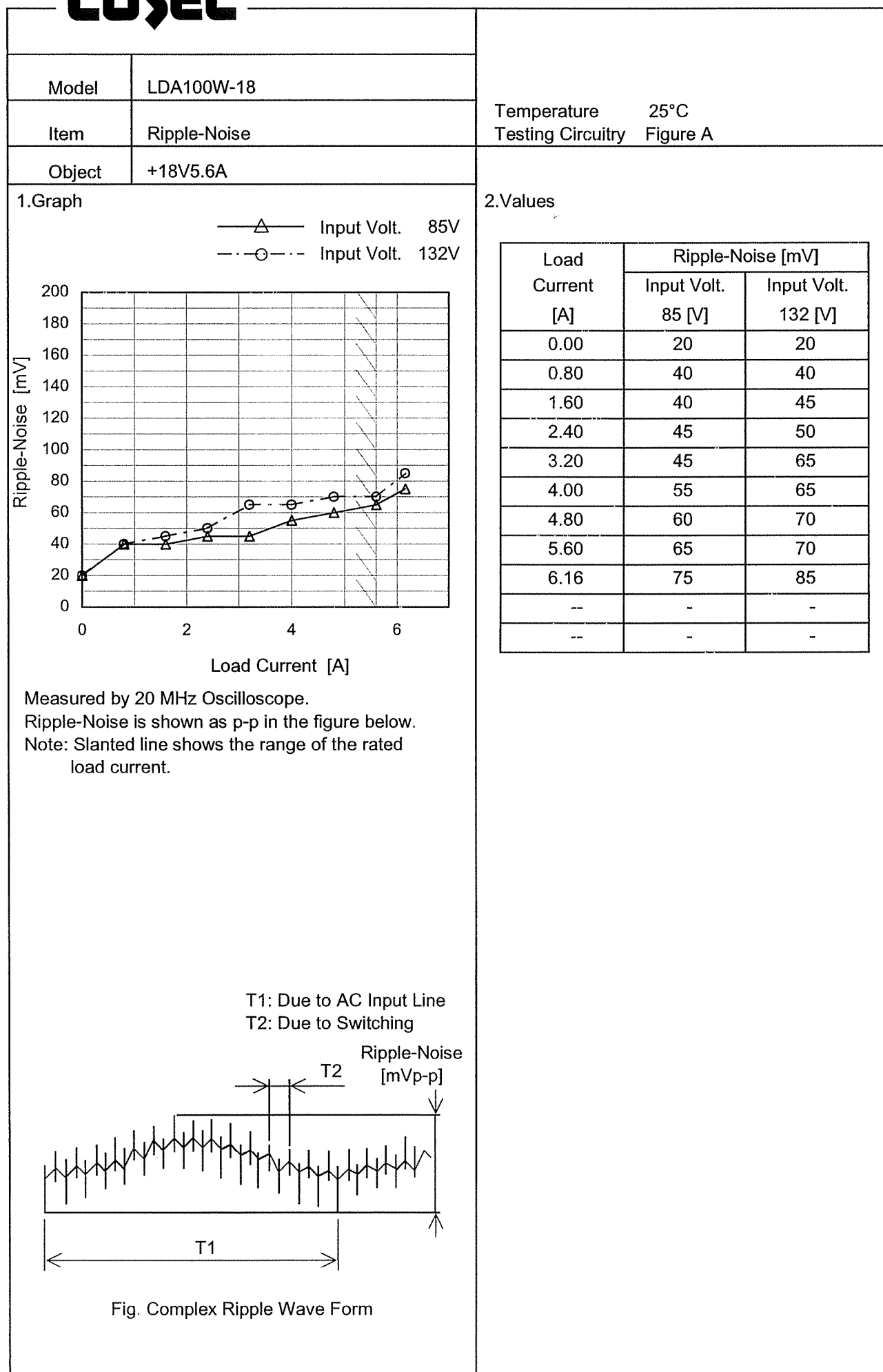


10 ms/div



10 ms/div

Model		LDA100W-18																																							
Item		Ripple Voltage (by Load Current)																																							
Object		+18V5.6A																																							
1.Graph		2.Values																																							
<div><div><div>---△---</div><div>Input Volt.</div><div>85V</div></div><div><div>---○---</div><div>Input Volt.</div><div>132V</div></div></div> <div><div><div>Ripple Voltage [mV]</div><div>200</div><div>180</div><div>160</div><div>140</div><div>120</div><div>100</div><div>80</div><div>60</div><div>40</div><div>20</div><div>0</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div><div>Load Current [A]</div></div></div> <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.00</td><td>15</td><td>15</td></tr><tr><td>0.80</td><td>25</td><td>25</td></tr><tr><td>1.60</td><td>25</td><td>30</td></tr><tr><td>2.40</td><td>30</td><td>30</td></tr><tr><td>3.20</td><td>30</td><td>35</td></tr><tr><td>4.00</td><td>30</td><td>35</td></tr><tr><td>4.80</td><td>30</td><td>35</td></tr><tr><td>5.60</td><td>35</td><td>35</td></tr><tr><td>6.16</td><td>35</td><td>35</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.00	15	15	0.80	25	25	1.60	25	30	2.40	30	30	3.20	30	35	4.00	30	35	4.80	30	35	5.60	35	35	6.16	35	35	--	-	-	--	-	-	<div>Measured by 20 MHz Oscilloscope.</div> <div>Ripple Voltage is shown as p-p in the figure below.</div> <div>Note: Slanted line shows the range of the rated load current.</div> <div><div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div><div><div><div>Ripple [mVp-p]</div><div><div><div>T1</div><div>T2</div></div></div></div></div></div> <div>Fig. Complex Ripple Wave Form</div>	
Load Current [A]	Ripple Voltage [mV]																																								
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Model		LDA100W-18																																																				
Item		Ambient Temperature Drift																																																				
Object		+18V5.6A																																																				
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>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. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>-20</td><td>18.132</td><td>18.132</td><td>18.133</td></tr><tr><td>-10</td><td>18.129</td><td>18.129</td><td>18.129</td></tr><tr><td>0</td><td>18.124</td><td>18.125</td><td>18.125</td></tr><tr><td>10</td><td>18.120</td><td>18.120</td><td>18.121</td></tr><tr><td>25</td><td>18.115</td><td>18.115</td><td>18.115</td></tr><tr><td>40</td><td>18.107</td><td>18.106</td><td>18.106</td></tr><tr><td>50</td><td>18.094</td><td>18.094</td><td>18.093</td></tr><tr><td>60</td><td>18.078</td><td>18.078</td><td>18.077</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. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	18.132	18.132	18.133	-10	18.129	18.129	18.129	0	18.124	18.125	18.125	10	18.120	18.120	18.121	25	18.115	18.115	18.115	40	18.107	18.106	18.106	50	18.094	18.094	18.093	60	18.078	18.078	18.077	--	-	-	-	--	-	-	-	--	-	-	-
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		Testing Circuitry Figure A
Model	LDA100W-18	
Item	Output Voltage Accuracy	
Object	+18V5.6A	

### 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 - 5.6A

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

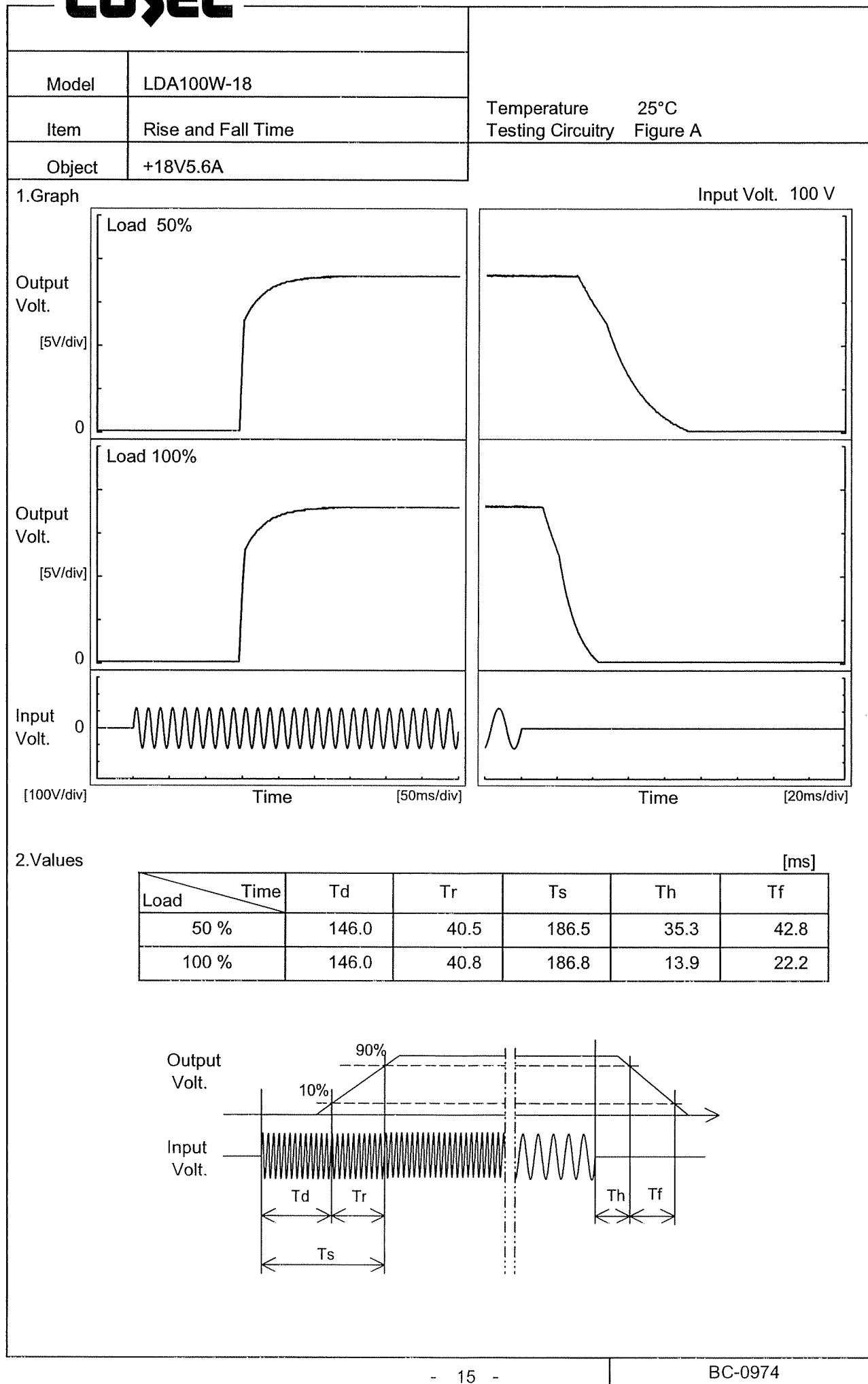
\* Output Voltage Accuracy (Ratio) =  $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	-10	85	0	18.138	±24	±0.1
Minimum Voltage	50	132	5.6	18.091		

Model	LDA100W-18	Temperature 25°C Testing Circuitry Figure A	
Item	Time Lapse Drift		
Object	+18V5.6A		
1.Graph		2.Values	
<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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BC-0974

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Model		LDA100W-18
Item		Minimum Input Voltage for Regulated Output Voltage
Object		+18V5.6A
1.Graph		2.Values

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Model	LDA100W-18																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+18V5.6A	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>7.41</td><td>7.30</td><td>7.34</td></tr><tr><td>17.1</td><td>7.42</td><td>7.34</td><td>7.40</td></tr><tr><td>16.2</td><td>7.44</td><td>7.38</td><td>7.47</td></tr><tr><td>14.4</td><td>7.51</td><td>7.50</td><td>7.62</td></tr><tr><td>12.6</td><td>7.62</td><td>7.63</td><td>7.78</td></tr><tr><td>10.8</td><td>7.76</td><td>7.77</td><td>7.91</td></tr><tr><td>9.0</td><td>7.88</td><td>7.92</td><td>8.03</td></tr><tr><td>7.2</td><td>7.96</td><td>8.01</td><td>8.25</td></tr><tr><td>5.4</td><td>8.08</td><td>8.10</td><td>8.43</td></tr><tr><td>3.6</td><td>8.15</td><td>8.27</td><td>8.53</td></tr><tr><td>1.8</td><td>8.12</td><td>8.18</td><td>8.28</td></tr><tr><td>0.0</td><td>7.48</td><td>7.40</td><td>7.50</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	18.0	7.41	7.30	7.34	17.1	7.42	7.34	7.40	16.2	7.44	7.38	7.47	14.4	7.51	7.50	7.62	12.6	7.62	7.63	7.78	10.8	7.76	7.77	7.91	9.0	7.88	7.92	8.03	7.2	7.96	8.01	8.25	5.4	8.08	8.10	8.43	3.6	8.15	8.27	8.53	1.8	8.12	8.18	8.28	0.0	7.48	7.40	7.50
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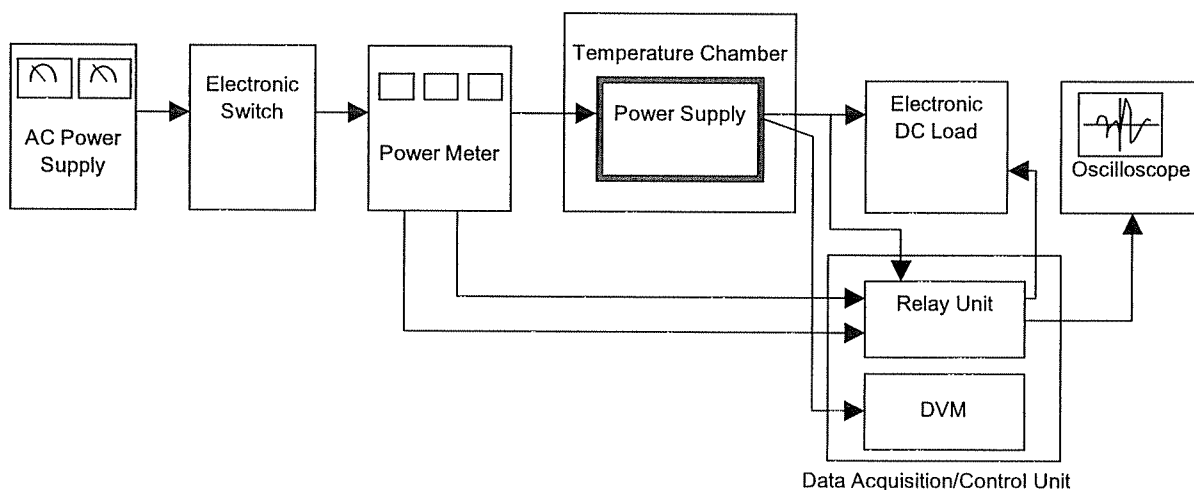


Figure A

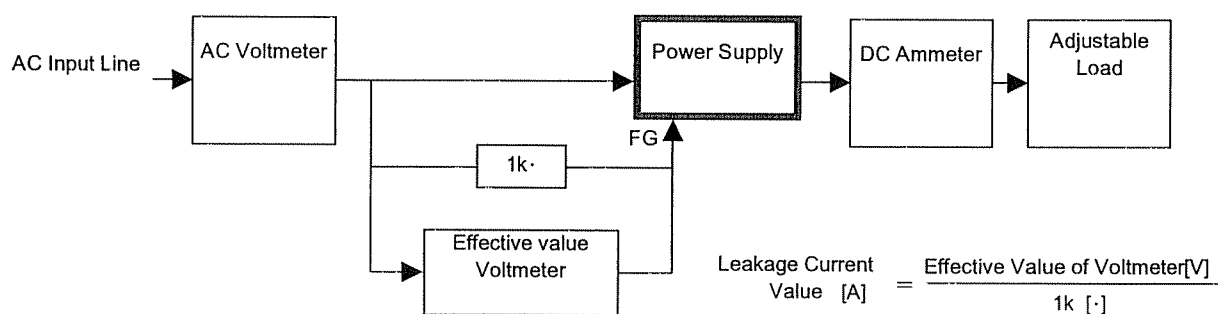


Figure B ( DEN-AN )

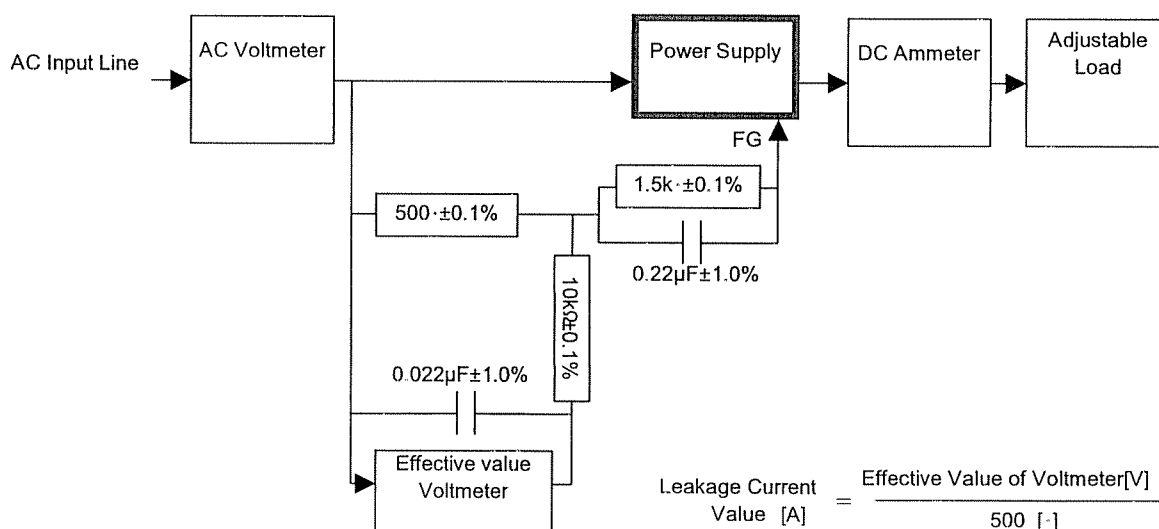


Figure B ( IEC60950 )