



# TEST DATA OF LDA100W-18

## (200V INPUT)

# Regulated DC Power Supply

## Dec.9. 2004

Approved by : K. Shiho K.Shiho Design Manager

Prepared by : S. Ueda  
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.Overvoltage Protection . . . . .	20
21.Figure of Testing Circuitry . . . . .	21

(Final Page 21)



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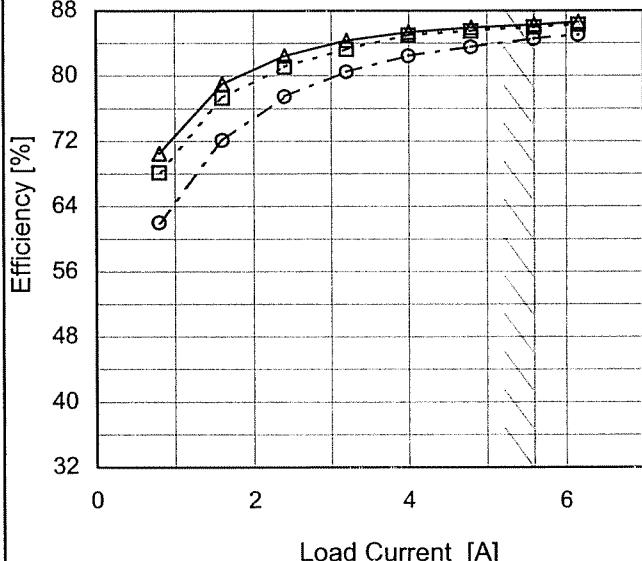
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<p>The graph plots Input Power [W] on the y-axis against Load Current [A] on the x-axis. Three data series are shown for different input voltages: 170V (solid line with triangles), 200V (dashed line with squares), and 264V (dash-dot line with circles). The power increases linearly with load current for each voltage. A slanted line is drawn through the data points, representing the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>170[V]</th> <th>200[V]</th> <th>264[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>3.2</td><td>4.0</td><td>5.8</td></tr> <tr><td>0.80</td><td>20.5</td><td>21.2</td><td>23.3</td></tr> <tr><td>1.60</td><td>36.6</td><td>37.4</td><td>40.1</td></tr> <tr><td>2.40</td><td>52.6</td><td>53.5</td><td>56.0</td></tr> <tr><td>3.20</td><td>68.6</td><td>69.5</td><td>71.9</td></tr> <tr><td>4.00</td><td>84.7</td><td>85.1</td><td>87.7</td></tr> <tr><td>4.80</td><td>101.0</td><td>101.5</td><td>103.9</td></tr> <tr><td>5.60</td><td>117.4</td><td>117.8</td><td>119.8</td></tr> <tr><td>6.16</td><td>128.6</td><td>129.1</td><td>131.0</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]	170[V]	200[V]	264[V]	0.00	3.2	4.0	5.8	0.80	20.5	21.2	23.3	1.60	36.6	37.4	40.1	2.40	52.6	53.5	56.0	3.20	68.6	69.5	71.9	4.00	84.7	85.1	87.7	4.80	101.0	101.5	103.9	5.60	117.4	117.8	119.8	6.16	128.6	129.1	131.0	--	-	-	-	--	-	-	-
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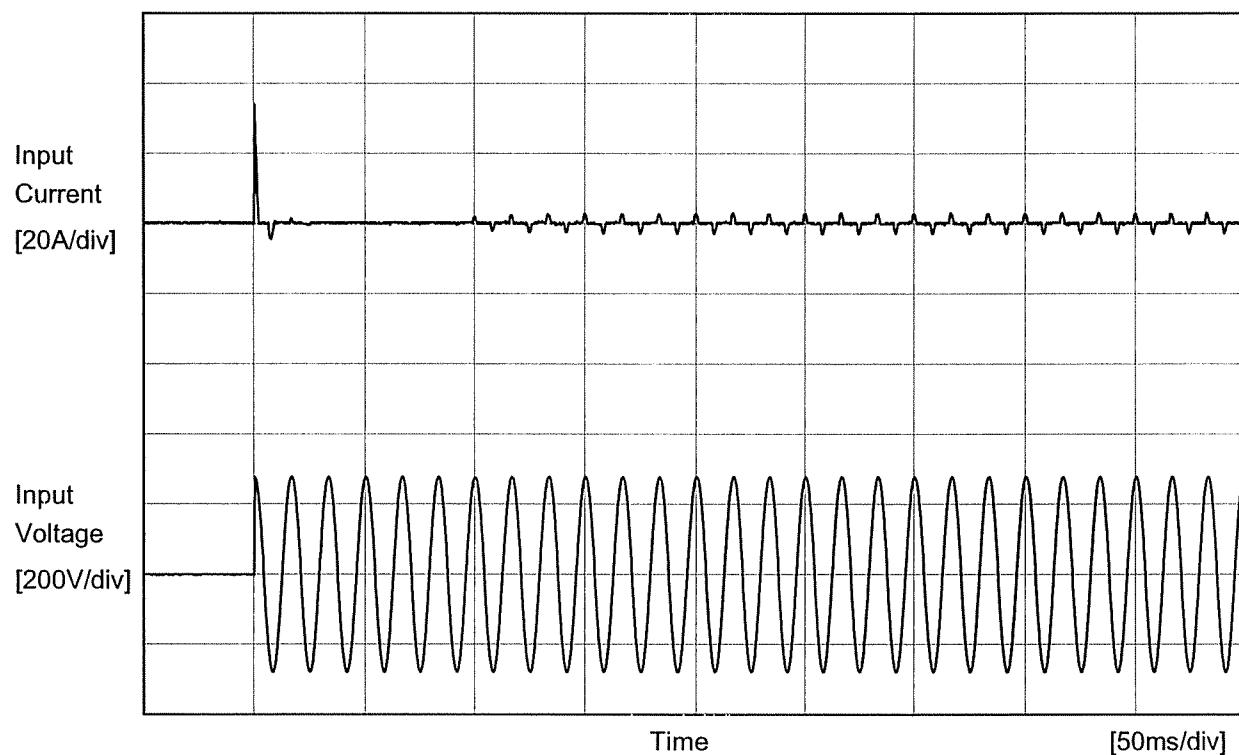
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<p>The graph plots Efficiency [%] on the y-axis (60 to 88) against Input Voltage [V] on the x-axis (140 to 300). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show a general downward trend as input voltage increases. A slanted line on the graph indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Efficiency Load 50% [%]</th> <th>Efficiency Load 100% [%]</th> </tr> </thead> <tbody> <tr><td>140</td><td>83.5</td><td>85.5</td></tr> <tr><td>160</td><td>83.5</td><td>85.5</td></tr> <tr><td>180</td><td>83.5</td><td>85.5</td></tr> <tr><td>200</td><td>81.5</td><td>85.0</td></tr> <tr><td>220</td><td>80.5</td><td>84.5</td></tr> <tr><td>240</td><td>80.0</td><td>84.0</td></tr> <tr><td>260</td><td>79.5</td><td>83.5</td></tr> <tr><td>280</td><td>78.5</td><td>83.0</td></tr> </tbody> </table>		Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]	140	83.5	85.5	160	83.5	85.5	180	83.5	85.5	200	81.5	85.0	220	80.5	84.5	240	80.0	84.0	260	79.5	83.5	280	78.5	83.0						
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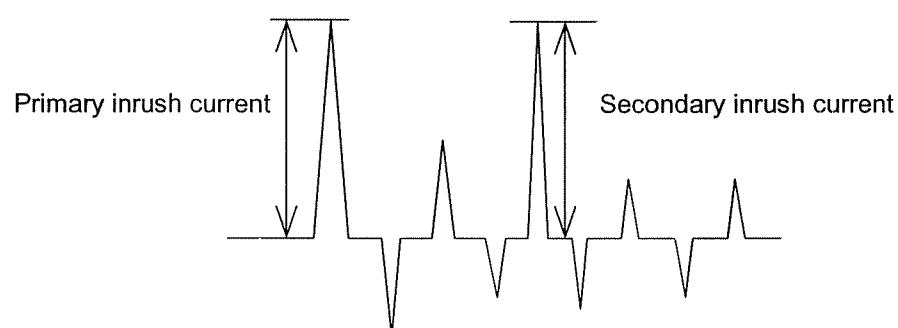
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Model	LDA100W-18	Temperature Testing Circuitry	25°C
Item	Inrush Current		Figure A
Object	_____		



Input Voltage      200 V  
 Frequency      60 Hz  
 Load      100 %

Primary inrush current      34.0 A  
 Secondary inrush current      3.0 A



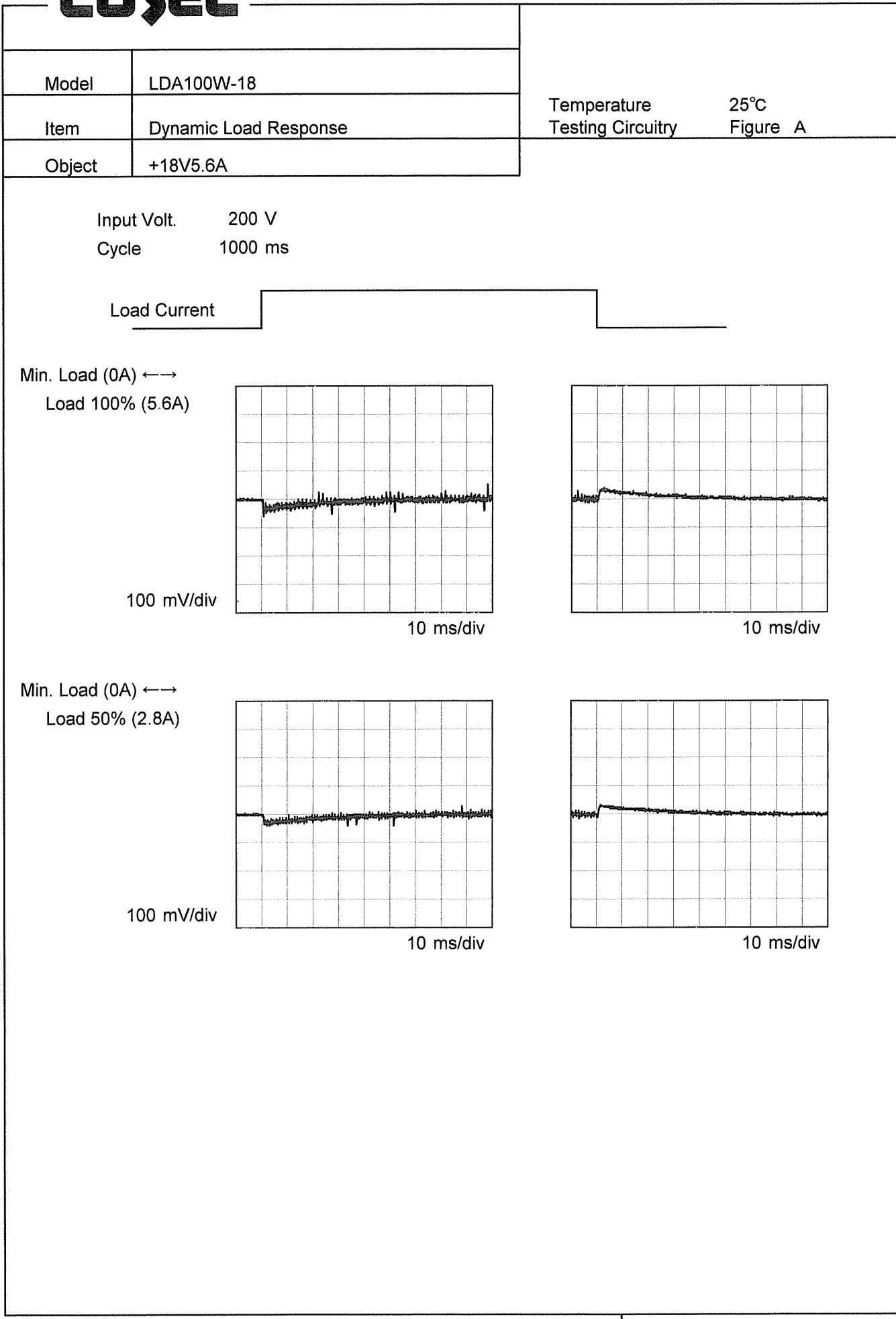


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<p>The graph plots Output Voltage [V] on the Y-axis (17.70 to 18.40) against Input Voltage [V] on the X-axis (140 to 300). Two data series are shown: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both series show a very flat output voltage across the entire input voltage range, with minor fluctuations near the 18V mark. A diagonal line from approximately 178V to 264V indicates the rated input voltage range.</p>																																		
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<p>The graph shows a horizontal line at approximately 18.10V, indicating stable output voltage across the load current range from 0 to 6A. The Y-axis ranges from 17.70 to 18.40 V, and the X-axis ranges from 0 to 6 A.</p> <table border="1"> <caption>Data points estimated from the graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>Output Voltage [V] (Input 170V)</th> <th>Output Voltage [V] (Input 200V)</th> <th>Output Voltage [V] (Input 264V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>18.111</td><td>18.111</td><td>18.112</td></tr> <tr><td>0.80</td><td>18.109</td><td>18.110</td><td>18.110</td></tr> <tr><td>1.60</td><td>18.108</td><td>18.108</td><td>18.109</td></tr> <tr><td>2.40</td><td>18.106</td><td>18.107</td><td>18.107</td></tr> <tr><td>3.20</td><td>18.105</td><td>18.106</td><td>18.106</td></tr> <tr><td>4.00</td><td>18.104</td><td>18.104</td><td>18.105</td></tr> <tr><td>4.80</td><td>18.103</td><td>18.103</td><td>18.103</td></tr> <tr><td>5.60</td><td>18.101</td><td>18.102</td><td>18.102</td></tr> <tr><td>6.16</td><td>18.100</td><td>18.100</td><td>18.101</td></tr> </tbody> </table>	Load Current [A]	Output Voltage [V] (Input 170V)	Output Voltage [V] (Input 200V)	Output Voltage [V] (Input 264V)	0.00	18.111	18.111	18.112	0.80	18.109	18.110	18.110	1.60	18.108	18.108	18.109	2.40	18.106	18.107	18.107	3.20	18.105	18.106	18.106	4.00	18.104	18.104	18.105	4.80	18.103	18.103	18.103	5.60	18.101	18.102	18.102	6.16	18.100	18.100	18.101	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</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>18.111</td><td>18.111</td><td>18.112</td></tr> <tr><td>0.80</td><td>18.109</td><td>18.110</td><td>18.110</td></tr> <tr><td>1.60</td><td>18.108</td><td>18.108</td><td>18.109</td></tr> <tr><td>2.40</td><td>18.106</td><td>18.107</td><td>18.107</td></tr> <tr><td>3.20</td><td>18.105</td><td>18.106</td><td>18.106</td></tr> <tr><td>4.00</td><td>18.104</td><td>18.104</td><td>18.105</td></tr> <tr><td>4.80</td><td>18.103</td><td>18.103</td><td>18.103</td></tr> <tr><td>5.60</td><td>18.101</td><td>18.102</td><td>18.102</td></tr> <tr><td>6.16</td><td>18.100</td><td>18.100</td><td>18.101</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]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.00	18.111	18.111	18.112	0.80	18.109	18.110	18.110	1.60	18.108	18.108	18.109	2.40	18.106	18.107	18.107	3.20	18.105	18.106	18.106	4.00	18.104	18.104	18.105	4.80	18.103	18.103	18.103	5.60	18.101	18.102	18.102	6.16	18.100	18.100	18.101	--	-	-	-	--	-	-	-
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COSEL

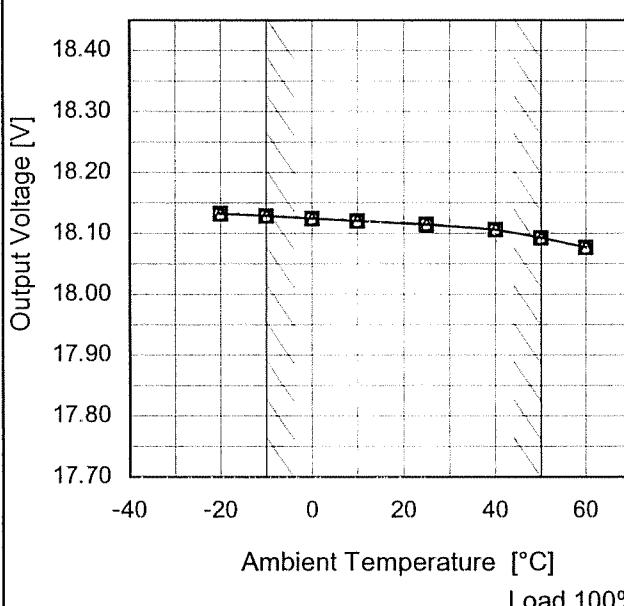


**COSSEL**

Model	LDA100W-18																																							
Item	Ripple Voltage (by Load Current)	Temperature 25°C Testing Circuitry Figure A																																						
Object	+18V5.6A																																							
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Note: Slanted line shows the range of the rated ambient temperature.



Model	LDA100W-18	Testing Circuitry Figure A
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 : 170 - 264V

Load Current : 0 - 5.6A

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

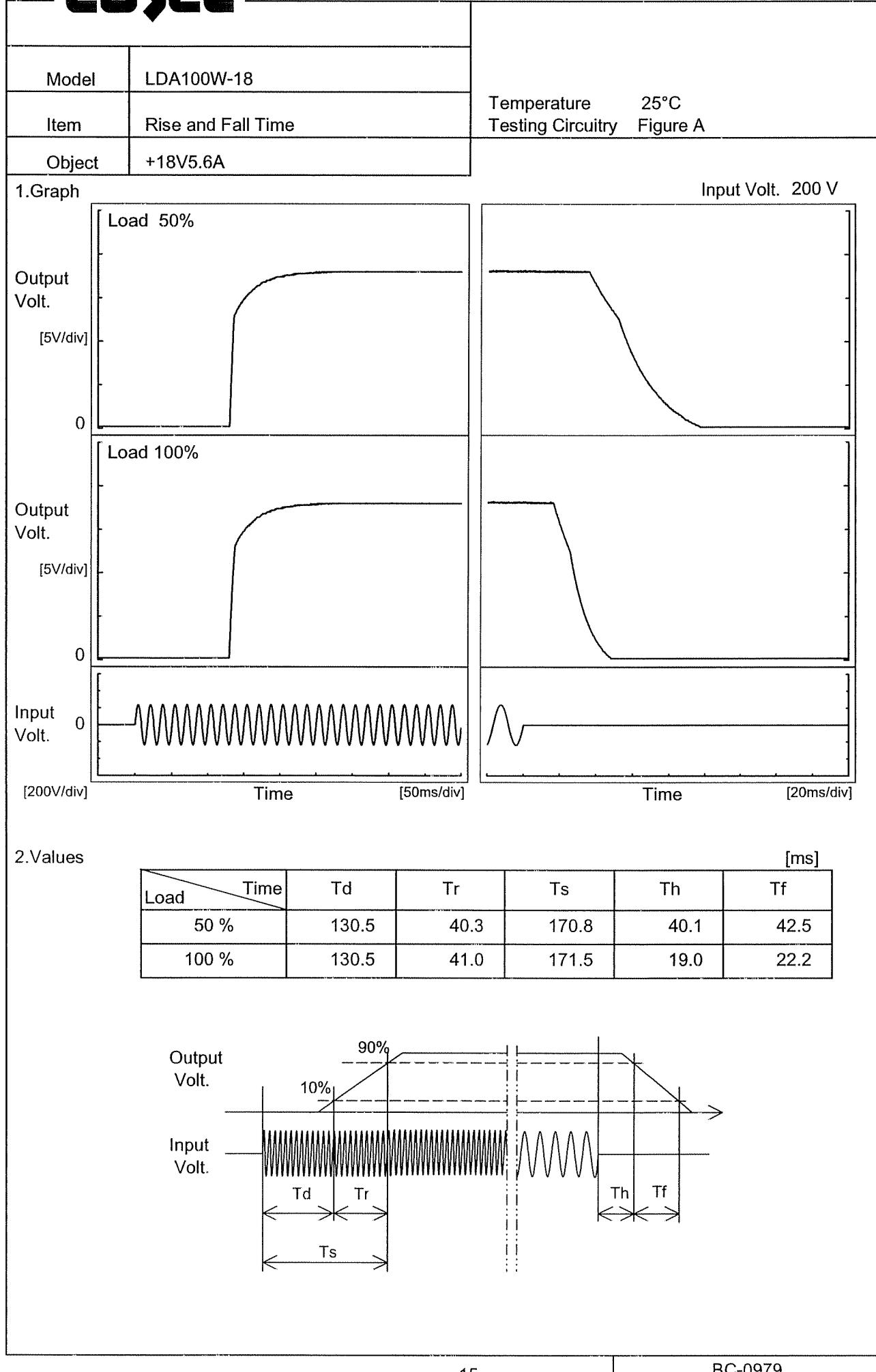
$$\text{* Output Voltage Accuracy (Ration)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-10	170	0	18.138	$\pm 25$	$\pm 0.1$
Minimum Voltage	50	170	5.6	18.088		

**COSEL**

Model	LDA100W-18	Temperature Testing Circuitry	25°C																						
Item	Time Lapse Drift		Figure A																						
Object	+18V5.6A																								
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<p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 200V</p> <p>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>18.111</td></tr> <tr><td>0.5</td><td>18.102</td></tr> <tr><td>1.0</td><td>18.102</td></tr> <tr><td>2.0</td><td>18.102</td></tr> <tr><td>3.0</td><td>18.102</td></tr> <tr><td>4.0</td><td>18.102</td></tr> <tr><td>5.0</td><td>18.103</td></tr> <tr><td>6.0</td><td>18.102</td></tr> <tr><td>7.0</td><td>18.103</td></tr> <tr><td>8.0</td><td>18.103</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	18.111	0.5	18.102	1.0	18.102	2.0	18.102	3.0	18.102	4.0	18.102	5.0	18.103	6.0	18.102	7.0	18.103	8.0	18.103
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6.0	18.102																								
7.0	18.103																								
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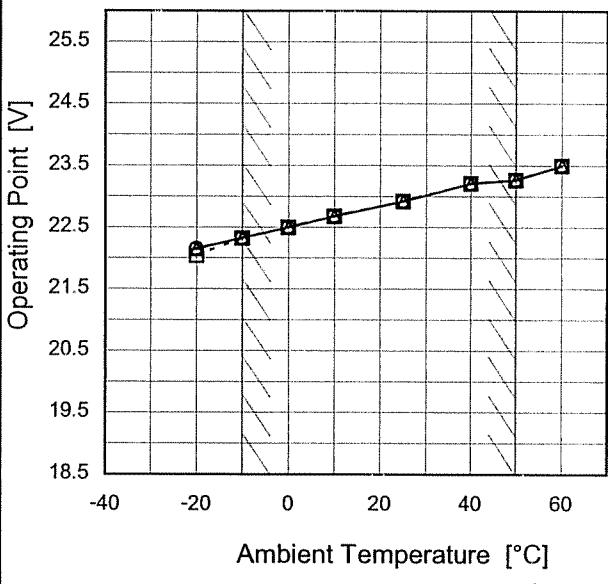
**COSEL**

Model	LDA100W-18																																	
Item	Hold-Up Time	Temperature 25°C Testing Circuitry Figure A																																
Object	+18V5.6A																																	
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<p>Hold-Up Time [ms]</p> <p>Input Voltage [V]</p> <p>Legend: Load 50% (dashed line with squares), Load 100% (solid line with triangles)</p>																																		
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Input Voltage [V]	Hold-Up Time [ms]																																	
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<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>																																		

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Item	Instantaneous Interruption Compensation																																																					
Object	+18V5.6A																																																					
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<p>The graph plots Output Voltage [V] on the Y-axis (0 to 30) against Load Current [A] on the X-axis (0 to 12). Three curves represent different input voltages: 170V (top), 200V (middle), and 264V (bottom). All curves show a constant output voltage until a certain load current is reached, after which the output voltage drops sharply. A shaded hatched area highlights the region between the 200V and 264V curves, indicating the range of the rated load current.</p>																																																										
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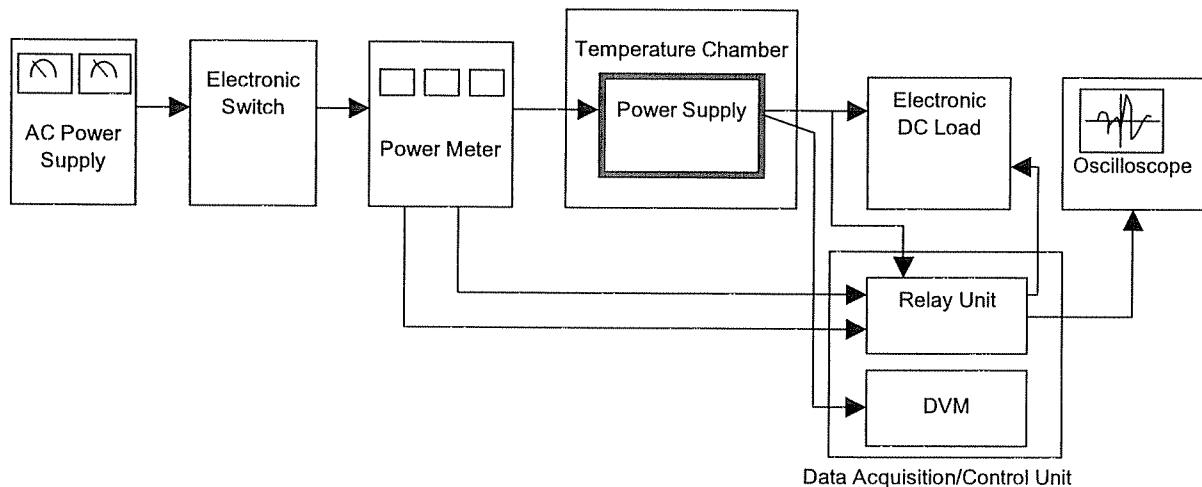


Figure A

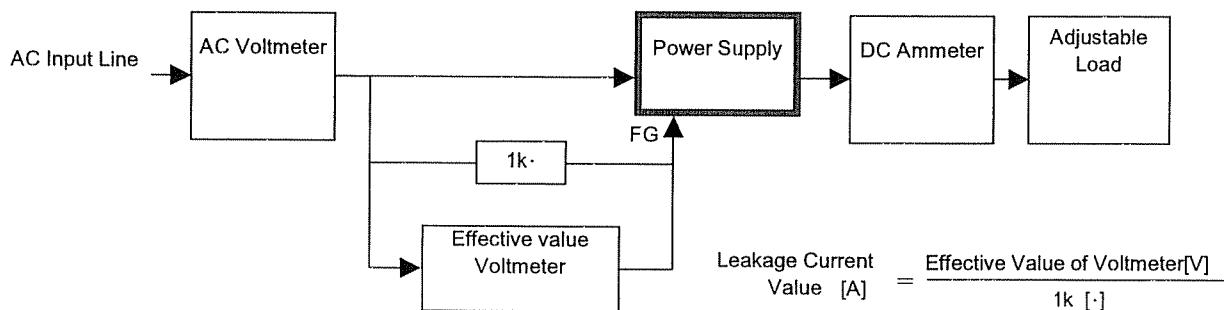


Figure B ( DEN-AN )

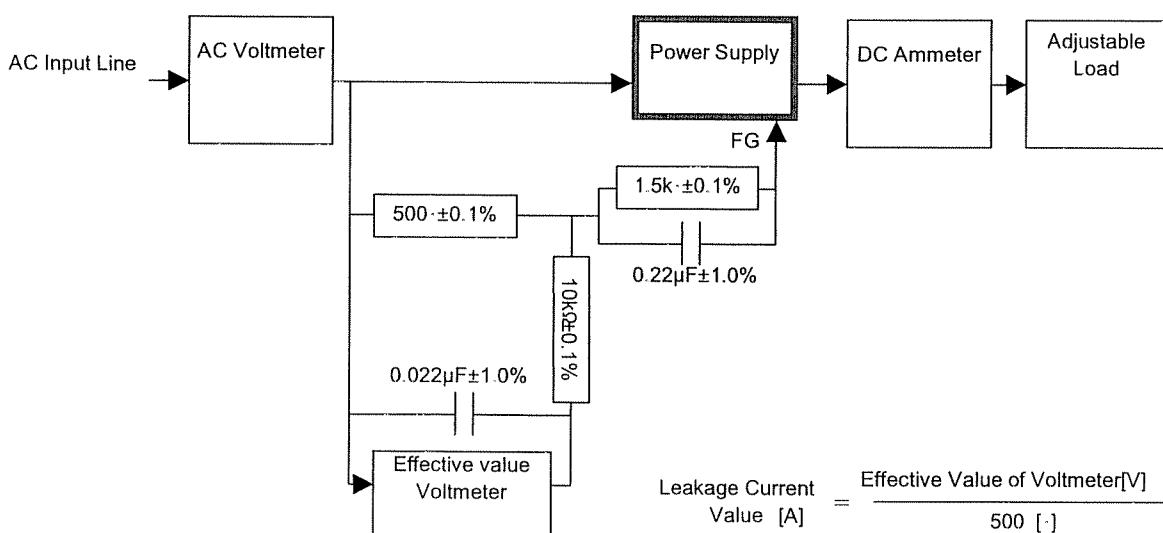


Figure B ( IEC60950 )