



TEST DATA OF LDA150W-48

(100V INPUT)

Regulated DC Power Supply
Nov. 5. 2001

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Design Manager

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Design Engineer

コーセル株式会社
COSEL CO.,LTD.

CONTENTS

1. Line Regulation	1
静的入力変動	
2. Efficiency (by Input Voltage)	2
効率 (入力電圧特性)	
3. Efficiency (by Load Current)	3
効率 (負荷特性)	
4. Hold-Up Time	4
出力保持時間	
5. Instantaneous Interruption Compensation	5
瞬時停電保障	
6. Load Regulation	6
静的負荷変動	
7. Ripple Voltage (by Load Current)	7
リップル電圧 (負荷特性)	
8. Ripple-Noise	8
リップルノイズ	
9. Overcurrent Protection	9
過電流保護	
10. Overvoltage Protection	10
過電圧保護	
11. Inrush Current	11
突入電流	
12. Rise and Fall Time	12
立上り、立下り時間	
13. Ambient Temperature Drift	13
周囲温度変動	
14. Minimum Input Voltage for Regulated Output Voltage	14
最低レギュレーション電圧	
15. Ripple Voltage (by Ambient Temperature)	15
リップル電圧 (周囲温度特性)	
16. Output Voltage Accuracy	16
定電圧精度	
17. Figure of Testing Circuitry	17
測定回路図	

(Final Page 17)

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Model		LDA150W-48	
Item		Line Regulation 静的入力変動	
Object		+48V3A	
1. Graph		2. Values	

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Model		LDA150W-48		Temperature		25℃																																	
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)		Testing Circuitry		Figure A																																	
Object																																							
1. Graph				2. Values																																			
<div><div><div><div><div></div><div></div></div><div></div></div><div>Load 50%</div></div><div><div><div><div></div><div></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>83.2</td><td>84.5</td></tr><tr><td>80</td><td>83.8</td><td>85.4</td></tr><tr><td>85</td><td>83.9</td><td>86.0</td></tr><tr><td>90</td><td>84.2</td><td>86.4</td></tr><tr><td>100</td><td>84.1</td><td>86.6</td></tr><tr><td>110</td><td>83.5</td><td>86.6</td></tr><tr><td>120</td><td>82.9</td><td>86.3</td></tr><tr><td>132</td><td>81.3</td><td>86.0</td></tr><tr><td>140</td><td>80.5</td><td>85.7</td></tr></tbody></table>				Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	75	83.2	84.5	80	83.8	85.4	85	83.9	86.0	90	84.2	86.4	100	84.1	86.6	110	83.5	86.6	120	82.9	86.3	132	81.3	86.0	140	80.5	85.7				
Input Voltage [V]	Efficiency [%]																																						
	Load 50%	Load 100%																																					
75	83.2	84.5																																					
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<p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注) 斜線は定格入力電圧範囲を示す。</p>																																							

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Model		LDA150W-48	Temperature25℃ Testing CircuitryFigure A																																																
Item		Efficiency (by Load Current) 効率（負荷特性）																																																	
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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> <table><thead><tr><th>Load Current [A]</th><th>85V Efficiency [%]</th><th>100V Efficiency [%]</th><th>132V Efficiency [%]</th></tr></thead><tbody><tr><td>0.0</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.6</td><td>76.0</td><td>74.9</td><td>69.9</td></tr><tr><td>1.2</td><td>82.9</td><td>82.6</td><td>79.3</td></tr><tr><td>1.8</td><td>85.1</td><td>85.3</td><td>83.1</td></tr><tr><td>2.4</td><td>86.2</td><td>86.8</td><td>85.4</td></tr><tr><td>3.0</td><td>86.5</td><td>86.9</td><td>86.1</td></tr><tr><td>3.3</td><td>86.2</td><td>86.6</td><td>86.2</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><tr><td>--</td><td>—</td><td>—</td><td>—</td></tr></tbody></table>	Load Current [A]	85V Efficiency [%]	100V Efficiency [%]	132V Efficiency [%]	0.0	—	—	—	0.6	76.0	74.9	69.9	1.2	82.9	82.6	79.3	1.8	85.1	85.3	83.1	2.4	86.2	86.8	85.4	3.0	86.5	86.9	86.1	3.3	86.2	86.6	86.2	--	—	—	—	--	—	—	—	--	—	—	—	--	—	—	—	2. Values
Load Current [A]	85V Efficiency [%]	100V Efficiency [%]	132V Efficiency [%]																																																
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Model		LDA150W-48	
Item		Hold-Up Time 出力保持時間	
Object		+48V3A	

1. Graph

□

Load 50%

△

Load 100%

Hold-Up Time [mS]

1000

100

10

1

70

90

110

130

150

Input Voltage [V]

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.

出力保持時間とは、入力電圧断から出力電圧が定電圧精度の範囲を保持しているところまでの時間。
(注) 斜線は定格入力電圧範囲を示す。

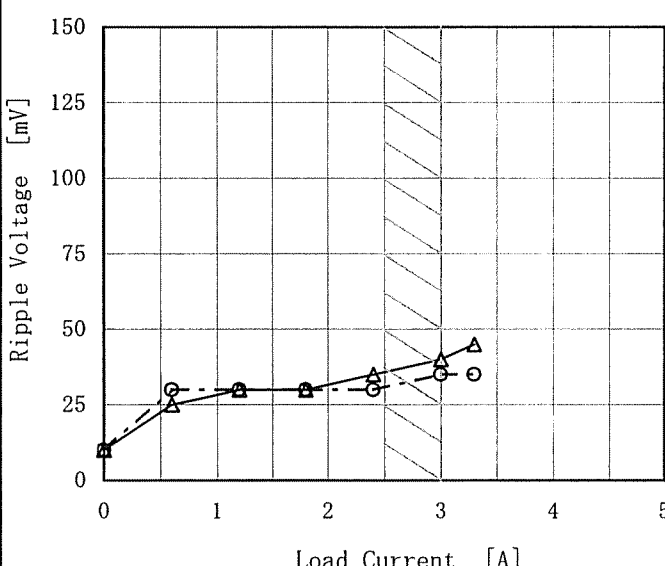
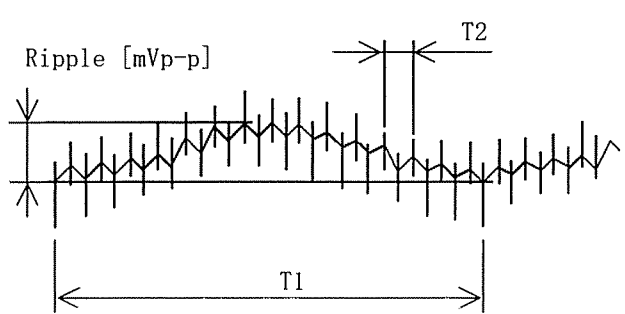
Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	26	9
80	33	13
85	41	17
90	49	22
100	66	31
110	85	41
120	106	52
132	133	67
140	153	77

2. Values

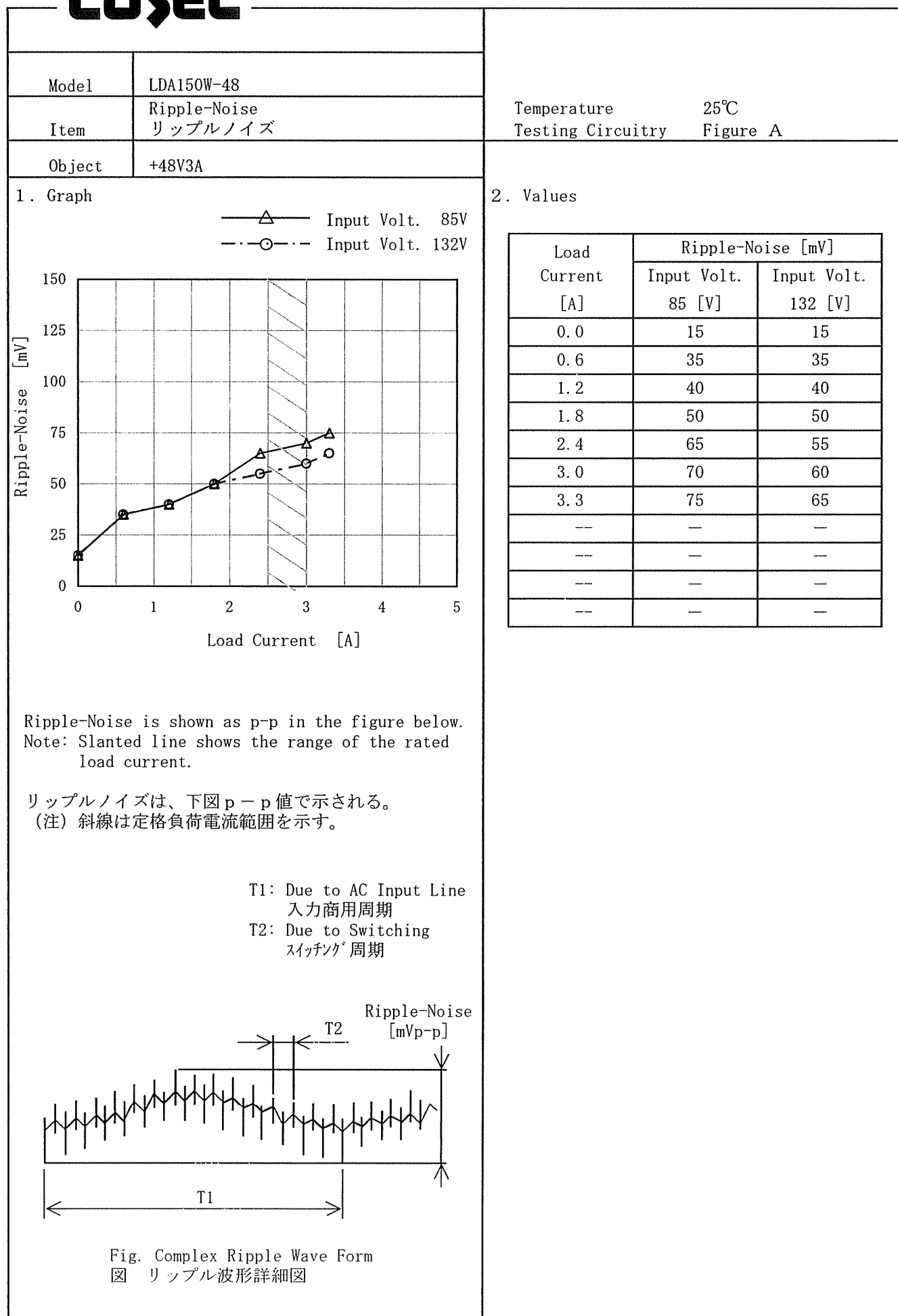
Model	LDA150W-48																																																					
Item	Instantaneous Interruption Compensation 瞬時停電保障	Temperature	25℃																																																			
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Model		LDA150W-48		Temperature		25℃																																							
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Load Current [A]	Ripple Voltage [mV]																																												
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<p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>リップル電圧は、下図 p - p 値で示される。</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p> <div><div>T1: Due to AC Input Line 入力商用周期</div><div>T2: Due to Switching スイッチング周期</div></div> 				<p>Fig. Complex Ripple Wave Form</p> <p>図 リップル波形詳細図</p>																																									

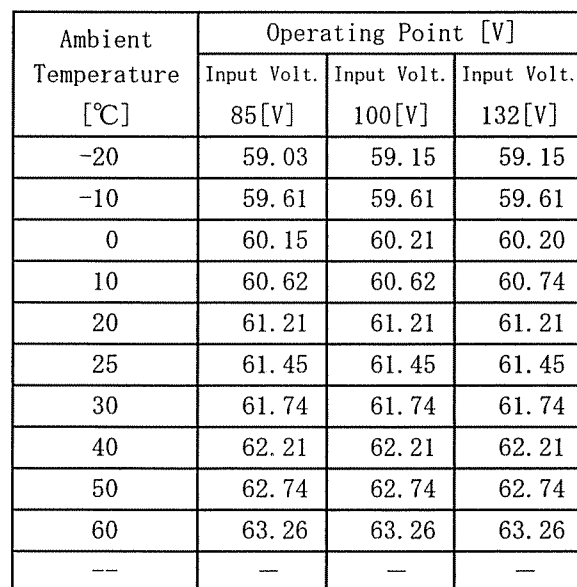
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Model	LDA150W-48																																																									
Item	Overcurrent Protection 過電流保護	Temperature	25℃																																																							
Object	+48V3A	Testing Circuitry	Figure A																																																							
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<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. (注) 斜線は定格負荷電流範囲を示す。</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>48.0</td><td>4.09</td><td>4.08</td><td>4.16</td></tr><tr><td>45.6</td><td>4.10</td><td>4.10</td><td>4.16</td></tr><tr><td>43.2</td><td>4.11</td><td>4.12</td><td>4.17</td></tr><tr><td>38.4</td><td>4.14</td><td>4.14</td><td>4.21</td></tr><tr><td>33.6</td><td>4.15</td><td>4.17</td><td>4.24</td></tr><tr><td>28.8</td><td>4.19</td><td>4.20</td><td>4.24</td></tr><tr><td>24.0</td><td>4.18</td><td>4.21</td><td>4.29</td></tr><tr><td>19.2</td><td>4.21</td><td>4.24</td><td>4.31</td></tr><tr><td>14.4</td><td>4.22</td><td>4.26</td><td>4.30</td></tr><tr><td>9.6</td><td>4.16</td><td>4.14</td><td>4.11</td></tr><tr><td>4.8</td><td>3.94</td><td>3.96</td><td>3.99</td></tr><tr><td>0.0</td><td>4.29</td><td>4.36</td><td>4.73</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	48.0	4.09	4.08	4.16	45.6	4.10	4.10	4.16	43.2	4.11	4.12	4.17	38.4	4.14	4.14	4.21	33.6	4.15	4.17	4.24	28.8	4.19	4.20	4.24	24.0	4.18	4.21	4.29	19.2	4.21	4.24	4.31	14.4	4.22	4.26	4.30	9.6	4.16	4.14	4.11	4.8	3.94	3.96	3.99	0.0	4.29	4.36	4.73
Output Voltage [V]	Load Current [A]																																																									
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33.6	4.15	4.17	4.24																																																							
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Testing Circuitry Figure A

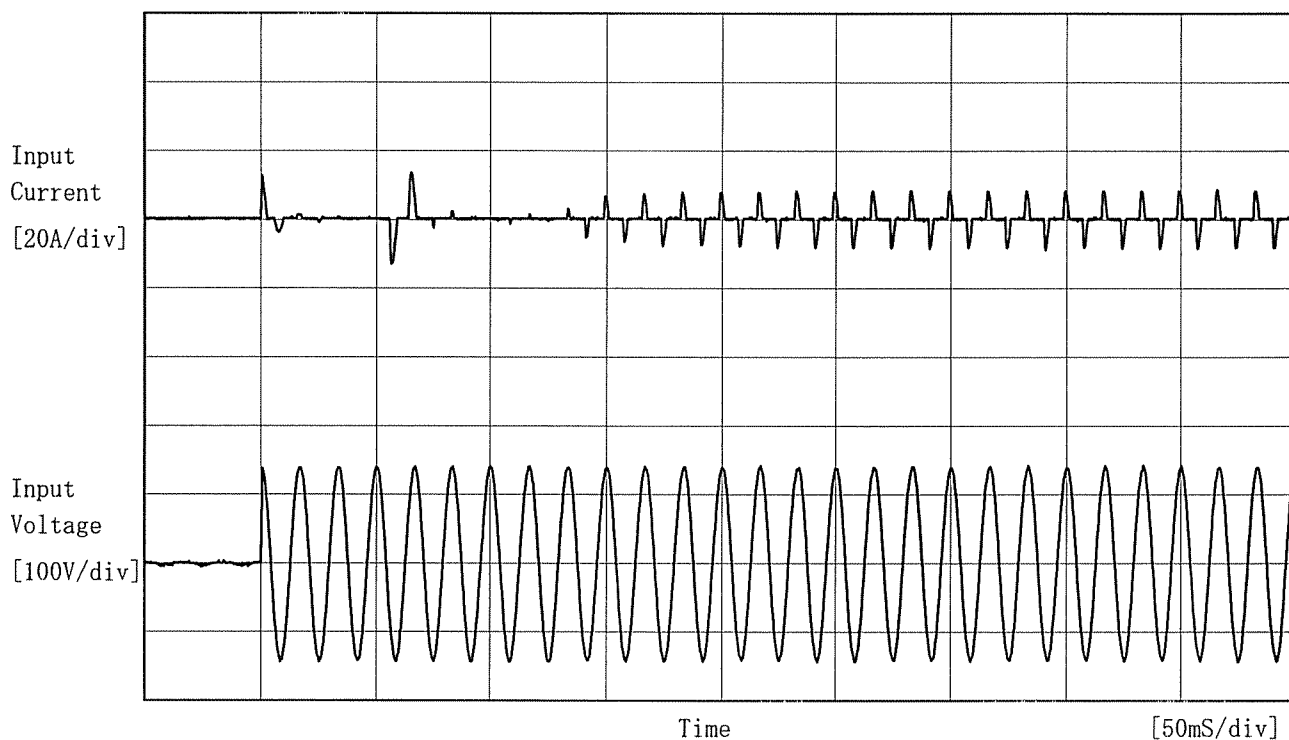
2. Values



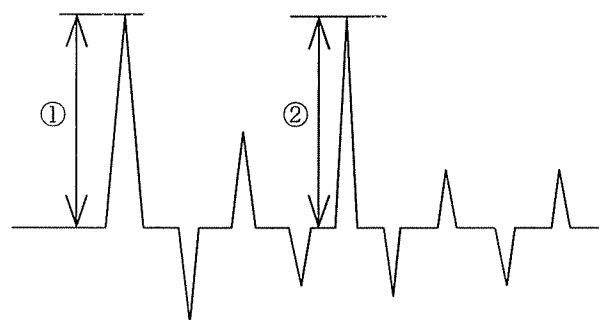
(注) 斜線は定格周囲温度範囲を示す。



Model	LDA150W-48	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 100 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current
 ① 12.8 [A]
 ② 13.6 [A]

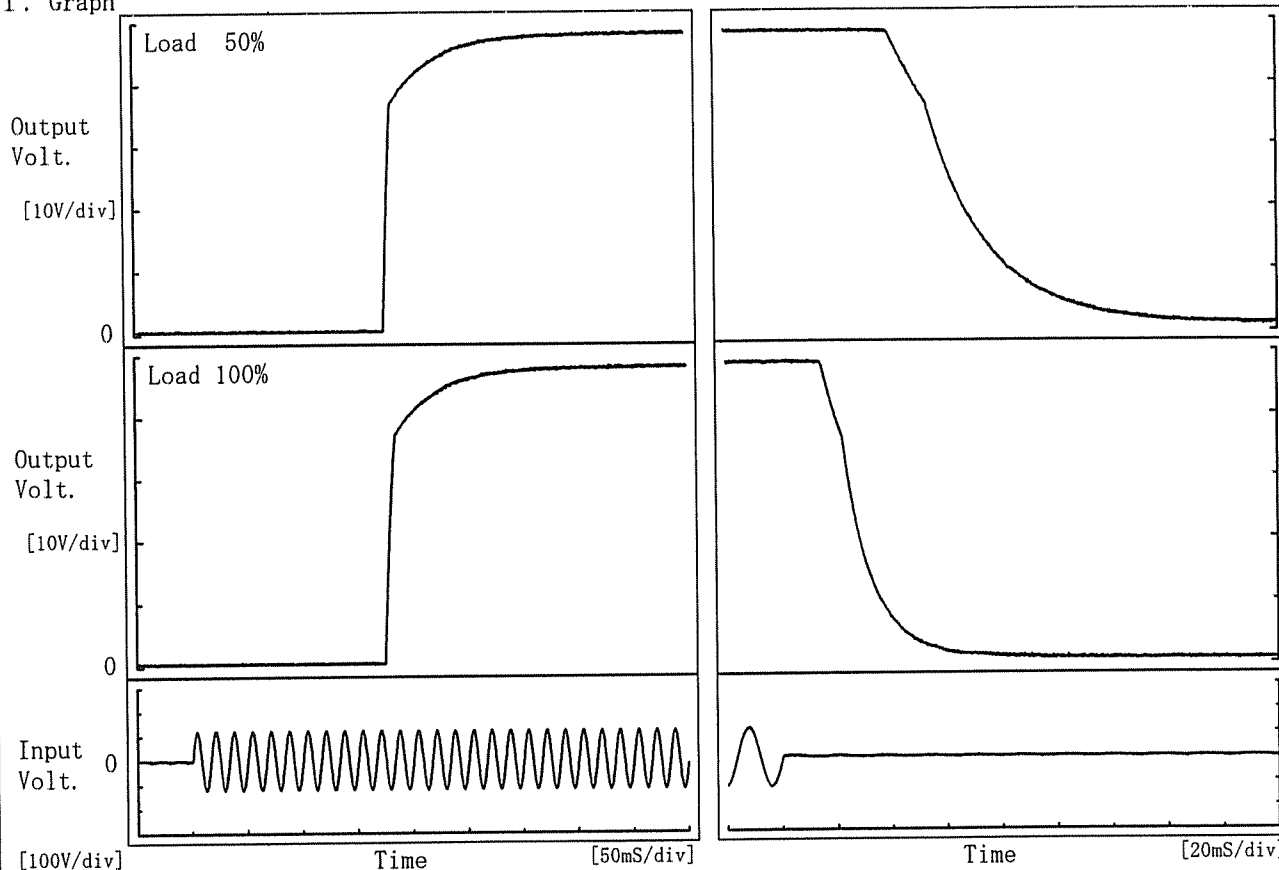


COSEL

Model	LDA150W-48	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+48V3A		

1. Graph

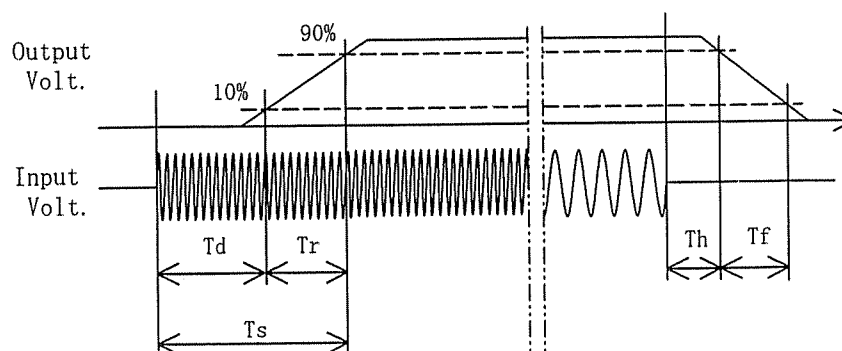
Input Volt. 85 V



2. Values

[mS]

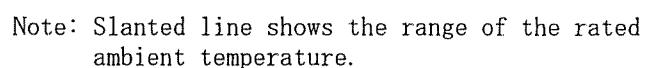
Load \ Time	T d	T r	T s	T h	T f
50 %	176.3	40.3	216.5	43.9	56.3
100 %	176.3	42.8	219.0	16.8	27.2



Testing Circuitry	Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt.	Input Volt.	Input Volt.
	85[V]	100[V]	132[V]
-30	48.653	48.653	48.651
-20	48.652	48.652	48.649
-10	48.652	48.652	48.649
0	48.654	48.654	48.651
10	48.658	48.657	48.655
25	48.661	48.661	48.658
30	48.656	48.656	48.653
40	48.645	48.645	48.641
55	48.614	48.613	48.609
60	48.595	48.594	48.590
—	—	—	—



(注) 斜線は定格周囲温度範囲を示す。

Model		LDA150W-48	
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	
Object		+48V3A	

1. Graph

---□--- Load 50%

—△— Load 100%

Input Voltage [V]

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Model		LDA150W-48
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object		+48V3A

1. Graph

---□---

Load 50%

—△—

Load 100%

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Model		LDA150W-48	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+48V3A	

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 ~ 40°C

Input Voltage : 85 ~ 132V

Load Current : 0 ~ 3A

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

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

1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 : -10 ~ 40°C

入力電圧 : 85 ~ 132V

負荷電流 : 0 ~ 3A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

* 定電圧精度(変動率) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	100	0	48.667	±15	±0.1
Minimum Voltage	40	132	3	48.638		

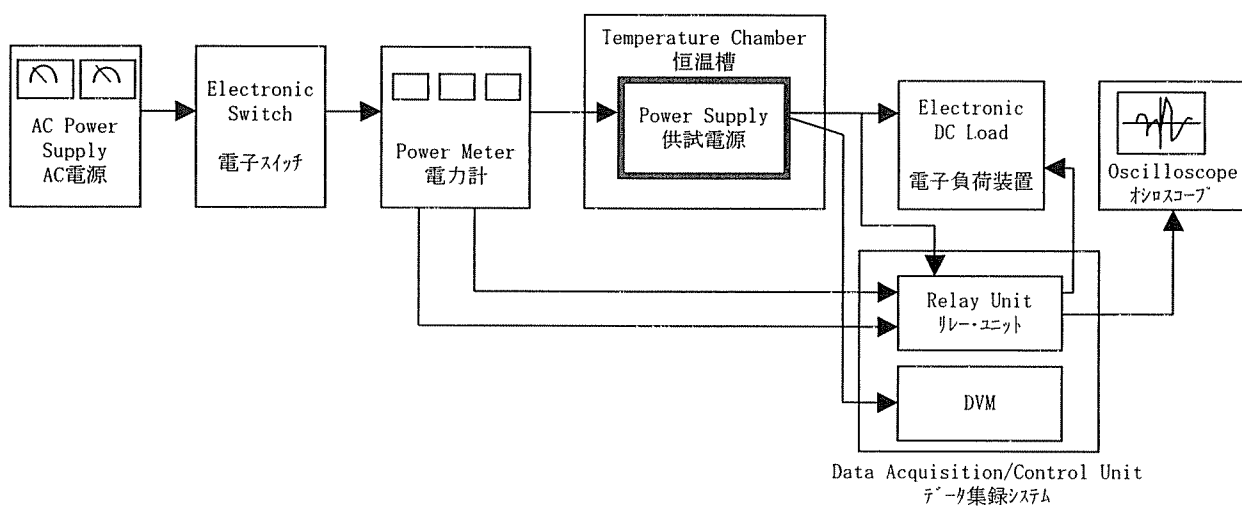


Figure A