

# TEST DATA OF LDA150W-24-H

(100V INPUT)

Regulated DC Power Supply  
Apr. 25. 2002

Approved by : Tooru Tsukurimichi  
Tooru Tsukurimichi Design Manager

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Youji Kawagishi Design Engineer

**コーセル株式会社**  
**COSEL CO.,LTD.**

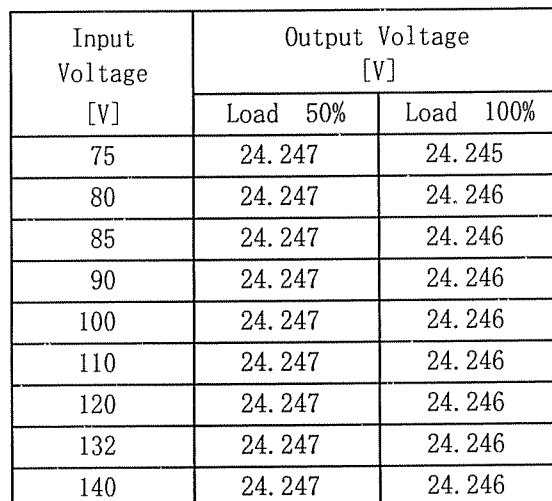
CONTENTS

1. Line Regulation . . . . .	1
静的入力変動	
2. Input Current (by Load Current) . . . . .	2
入力電流 (負荷特性)	
3. Input Power (by Load Current) . . . . .	3
入力電力 (負荷特性)	
4. Efficiency (by Input Voltage) . . . . .	4
効率 (入力電圧特性)	
5. Efficiency (by Load Current) . . . . .	5
効率 (負荷特性)	
6. Hold-Up Time . . . . .	6
出力保持時間	
7. Load Regulation . . . . .	7
静的負荷変動	
8. Ripple Voltage (by Load Current) . . . . .	8
リップル電圧 (負荷特性)	
9. Ripple-Noise . . . . .	9
リップルノイズ	
10. Overcurrent Protection . . . . .	10
過電流保護	
11. Overvoltage Protection . . . . .	11
過電圧保護	
12. Inrush Current . . . . .	12
突入電流	
13. Rise and Fall Time . . . . .	13
立上り、立下り時間	
14. Ambient Temperature Drift . . . . .	14
周囲温度変動	
15. Minimum Input Voltage for Regulated Output Voltage . . . . .	15
最低レギュレーション電圧	
16. Ripple Voltage (by Ambient Temperature) . . . . .	16
リップル電圧 (周囲温度特性)	
17. Output Voltage Accuracy . . . . .	17
定電圧精度	
18. Figure of Testing Circuitry . . . . .	18
測定回路図	

(Final Page 19)

Temperature	25°C
Testing Circuitry	Figure A

## 2. Values



(注) 斜線は定格入力電圧範囲を示す。

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Model		LDA150W-24-H		Temperature	25°C																																																			
Item		Input Current (by Load Current) 入力電流 (負荷特性)		Testing Circuitry	Figure A																																																			
Object		-----																																																						
1. Graph		<div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>-●-</div>Input Volt. 132V</div>		2. Values																																																				
<div><div>Input Current [A]</div><div><div>Load Current [A]</div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input 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>0.00</td><td>0.161</td><td>0.164</td><td>0.178</td></tr><tr><td>1.00</td><td>0.806</td><td>0.733</td><td>0.642</td></tr><tr><td>2.00</td><td>1.326</td><td>1.202</td><td>1.028</td></tr><tr><td>3.00</td><td>1.843</td><td>1.656</td><td>1.399</td></tr><tr><td>4.00</td><td>2.356</td><td>2.106</td><td>1.758</td></tr><tr><td>5.00</td><td>2.855</td><td>2.552</td><td>2.124</td></tr><tr><td>6.00</td><td>3.378</td><td>2.988</td><td>2.480</td></tr><tr><td>6.30</td><td>3.522</td><td>3.123</td><td>2.586</td></tr><tr><td>6.93</td><td>3.840</td><td>3.396</td><td>2.810</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]	Input Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	0.161	0.164	0.178	1.00	0.806	0.733	0.642	2.00	1.326	1.202	1.028	3.00	1.843	1.656	1.399	4.00	2.356	2.106	1.758	5.00	2.855	2.552	2.124	6.00	3.378	2.988	2.480	6.30	3.522	3.123	2.586	6.93	3.840	3.396	2.810	--	--	--	--	--	--	--	--
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Item		Input Power (by Load Current) 入力電力（負荷特性）	
Object			
1. Graph		<div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 132V</div> <p>Input Power [W]</p> <p>Load Current [A]</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。			

Temperature		25℃	
Testing Circuitry		Figure A	
2. Values			
Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	3.8	4.5	6.4
1.00	32.6	33.5	35.9
2.00	59.3	60.4	63.5
3.00	87.0	87.7	89.8
4.00	114.3	114.6	117.0
5.00	141.9	141.9	143.7
6.00	170.1	169.5	170.7
6.30	178.5	177.9	178.8
6.93	197.0	195.6	196.2
—	—	—	—
—	—	—	—

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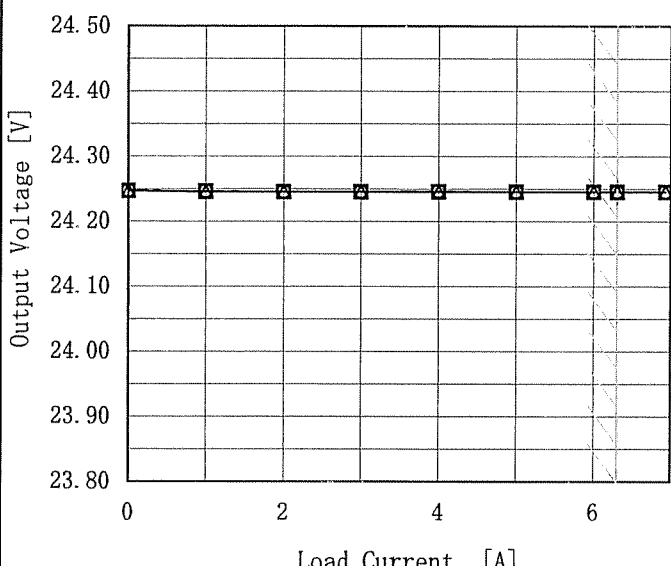
Model		LDA150W-24-H	
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)		
Object			
1. Graph			
<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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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4.00	84.7	84.5	82.8																																																				
5.00	85.3	85.3	84.2																																																				
6.00	85.4	85.7	85.1																																																				
6.30	85.5	85.8	85.3																																																				
6.93	85.1	85.7	85.5																																																				
—	—	—	—																																																				
—	—	—	—																																																				
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。																																																							

# COSEL



Model	LDA150W-24-H																																																		
Item	Load Regulation 静的負荷変動	Temperature	25℃																																																
Object	+24V6.3A	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> 		<table><tr><th rowspan="2">Load Current [A]</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>0.00</td><td>24.247</td><td>24.247</td><td>24.247</td></tr><tr><td>1.00</td><td>24.246</td><td>24.246</td><td>24.246</td></tr><tr><td>2.00</td><td>24.246</td><td>24.246</td><td>24.246</td></tr><tr><td>3.00</td><td>24.246</td><td>24.246</td><td>24.246</td></tr><tr><td>4.00</td><td>24.246</td><td>24.246</td><td>24.246</td></tr><tr><td>5.00</td><td>24.246</td><td>24.246</td><td>24.246</td></tr><tr><td>6.00</td><td>24.246</td><td>24.246</td><td>24.246</td></tr><tr><td>6.30</td><td>24.246</td><td>24.246</td><td>24.246</td></tr><tr><td>6.93</td><td>24.245</td><td>24.246</td><td>24.246</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr></table>			Load Current [A]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	24.247	24.247	24.247	1.00	24.246	24.246	24.246	2.00	24.246	24.246	24.246	3.00	24.246	24.246	24.246	4.00	24.246	24.246	24.246	5.00	24.246	24.246	24.246	6.00	24.246	24.246	24.246	6.30	24.246	24.246	24.246	6.93	24.245	24.246	24.246	--	--	--	--
Load Current [A]	Output Voltage [V]																																																		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																
0.00	24.247	24.247	24.247																																																
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(注) 斜線は定格負荷電流範囲を示す。																																																			

# COSEL

Model		LDA150W-24-H	
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷特性)		
Object	+24V6.3A		

1. Graph

—△— Input Volt. 85V

---○--- Input Volt. 132V

Ripple Voltage [mV]

100

90

80

70

60

50

40

30

20

10

0

0

2

4

6

Load Current [A]

Ripple Voltage is shown as p-p in the figure below.

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

リップル電圧は、下図 p - p 値で示される。  
(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line  
入力商用周期

T2: Due to Switching  
スイッチング周期

Ripple [mVp-p]

T1

T2

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

Temperature	25℃
Testing Circuitry	Figure A

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	10	10
1.26	15	15
2.52	15	15
3.78	15	20
5.04	20	20
6.30	20	25
6.93	20	25
--	--	--
--	--	--
--	--	--
--	--	--

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	10	10
1.26	15	15
2.52	15	15
3.78	15	20
5.04	20	20
6.30	20	25
6.93	20	25
—	—	—
—	—	—
—	—	—
—	—	—

# COSEL

Model		LDA150W-24-H	
Item		Ripple-Noise リップルノイズ	
Object		+24V6.3A	

1. Graph

—△— Input Volt. 85V

- - -○- - - Input Volt. 132V

100

90

80

70

60

50

40

30

20

10

0

Ripple-Noise [mV]

0

2

4

6

Load Current [A]

Ripple-Noise is shown as p-p in the figure below.

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

リップルノイズは、下図 p - p 値で示される。

(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line  
入力商用周期

T2: Due to Switching  
スイッチング周期

Ripple-Noise [mVp-p]

T2

T1

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

Temperature	25°C
Testing Circuitry	Figure A

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	15	20
1.26	25	35
2.52	30	40
3.78	40	45
5.04	50	55
6.30	50	65
6.93	55	65
--	--	--
--	--	--
--	--	--
--	--	--

# COSEL

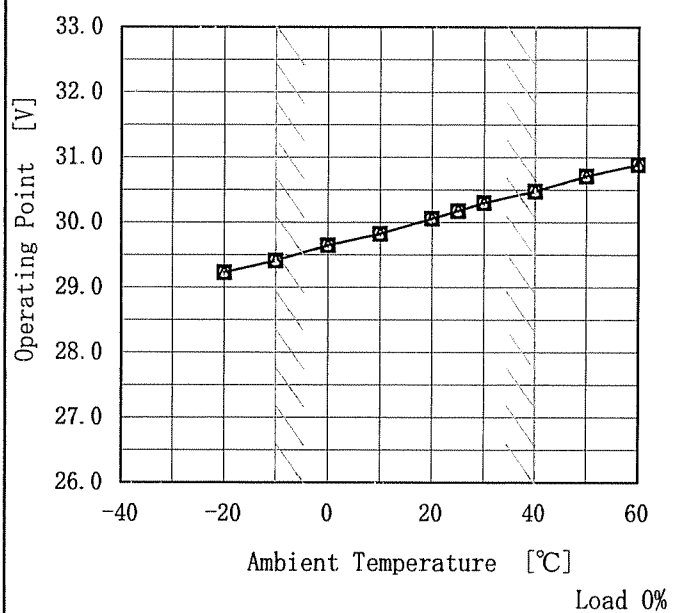
Model	LDA150W-24-H																																																									
Item	Overcurrent Protection 過電流保護	Temperature	25℃																																																							
Object	+24V6.3A	Testing Circuitry	Figure A																																																							
1. Graph		2. Values																																																								
<div><div><div></div><div></div><div></div></div><div>Input Volt. 85V Input Volt. 100V Input Volt. 132V</div></div> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <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>24.0</td><td>11.97</td><td>11.88</td><td>11.92</td></tr><tr><td>22.8</td><td>12.00</td><td>11.91</td><td>12.02</td></tr><tr><td>21.6</td><td>12.01</td><td>11.95</td><td>12.06</td></tr><tr><td>19.2</td><td>12.05</td><td>12.07</td><td>12.17</td></tr><tr><td>16.8</td><td>12.11</td><td>12.12</td><td>12.26</td></tr><tr><td>14.4</td><td>12.18</td><td>12.22</td><td>12.30</td></tr><tr><td>12.0</td><td>12.25</td><td>12.25</td><td>12.32</td></tr><tr><td>9.6</td><td>12.26</td><td>12.33</td><td>12.46</td></tr><tr><td>7.2</td><td>12.35</td><td>12.32</td><td>12.53</td></tr><tr><td>4.8</td><td>12.29</td><td>12.26</td><td>12.22</td></tr><tr><td>2.4</td><td>11.65</td><td>11.56</td><td>11.43</td></tr><tr><td>0.0</td><td>12.93</td><td>13.04</td><td>13.15</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	24.0	11.97	11.88	11.92	22.8	12.00	11.91	12.02	21.6	12.01	11.95	12.06	19.2	12.05	12.07	12.17	16.8	12.11	12.12	12.26	14.4	12.18	12.22	12.30	12.0	12.25	12.25	12.32	9.6	12.26	12.33	12.46	7.2	12.35	12.32	12.53	4.8	12.29	12.26	12.22	2.4	11.65	11.56	11.43	0.0	12.93	13.04	13.15
Output Voltage [V]	Load Current [A]																																																									
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																							
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7.2	12.35	12.32	12.53																																																							
4.8	12.29	12.26	12.22																																																							
2.4	11.65	11.56	11.43																																																							
0.0	12.93	13.04	13.15																																																							

# COSEL

Model	LDA150W-24-H
Item	Overvoltage Protection 過電圧保護
Object	+24V6.3A

## 1. Graph

—△— Input Volt. 85V  
 ---□--- Input Volt. 100V  
 -·○-·- Input Volt. 132V



Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

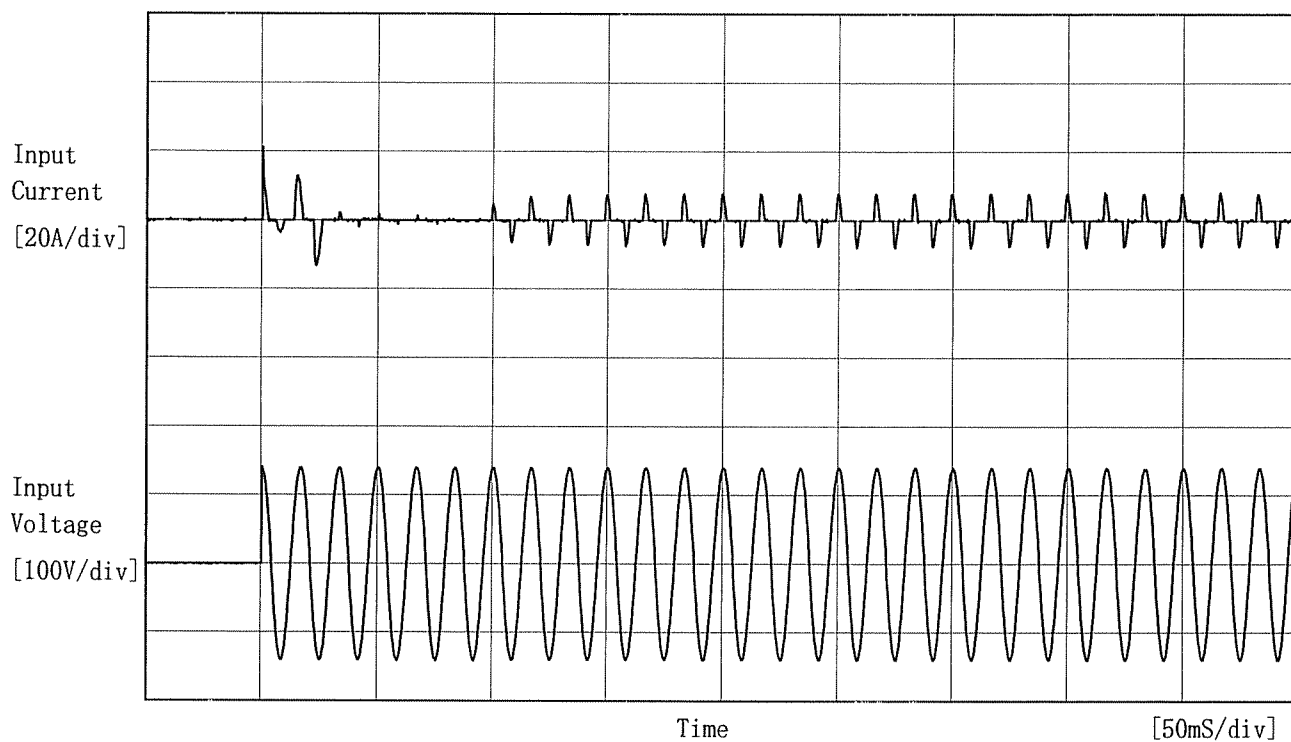
## Testing Circuitry Figure A

## 2. Values

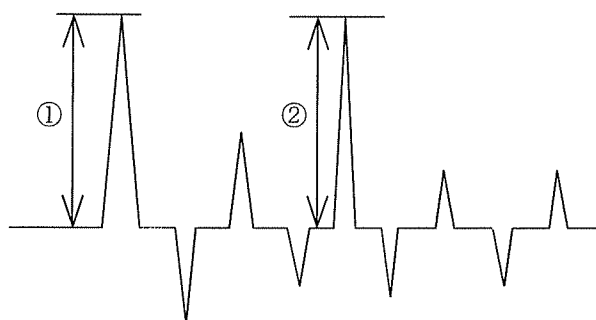
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	29.23	29.23	29.23
-10	29.41	29.41	29.41
0	29.65	29.65	29.65
10	29.82	29.82	29.82
20	30.06	30.06	30.06
25	30.18	30.18	30.18
30	30.30	30.30	30.30
40	30.48	30.48	30.48
50	30.71	30.71	30.71
60	30.89	30.89	30.89
—	—	—	—

**COSEL**

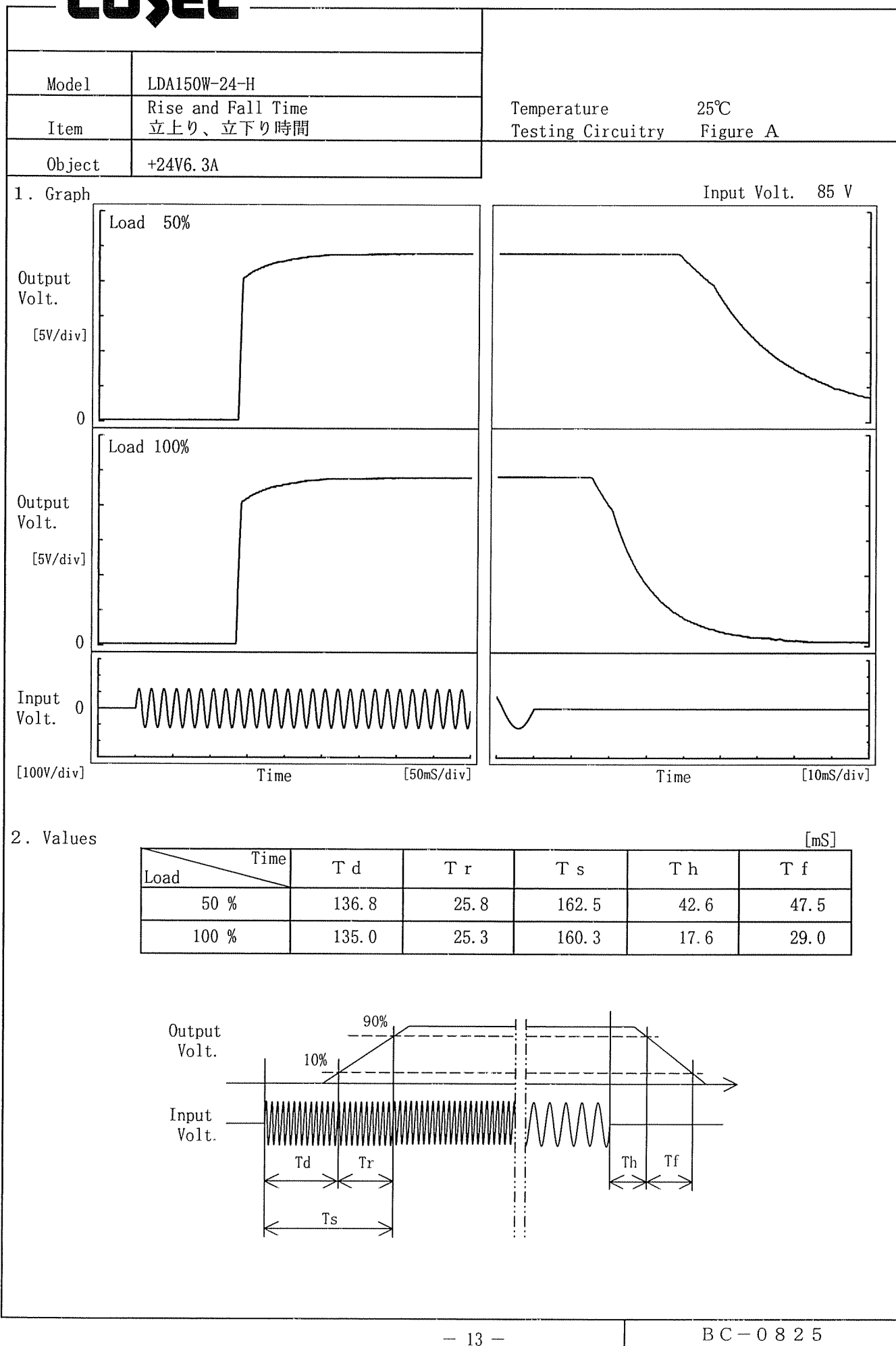
Model	LDA150W-24-H	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



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

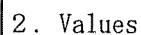


# COSEL



Testing Circuitry Figure A

—△—	Input Volt.	85V
---□---	Input Volt.	100V
-·-○-·-	Input Volt.	132V



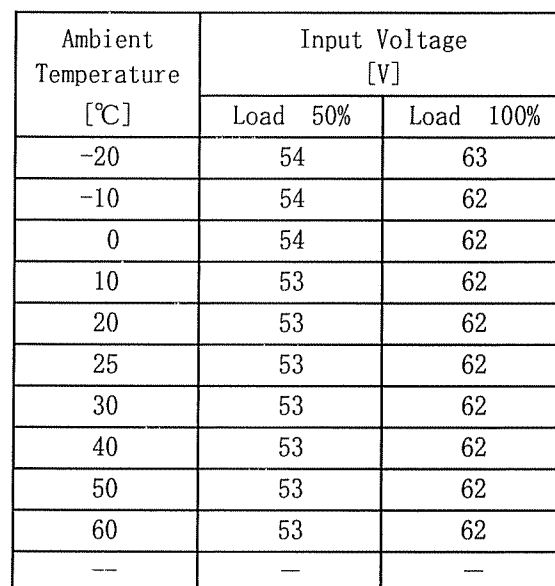
Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	24.235	24.236	24.235
-10	24.239	24.240	24.240
0	24.242	24.243	24.243
10	24.245	24.245	24.246
20	24.248	24.249	24.249
25	24.253	24.253	24.254
30	24.256	24.256	24.256
40	24.254	24.254	24.254
50	24.249	24.249	24.249
60	24.239	24.240	24.239
—	—	—	—

(注) 斜線は定格周囲温度範囲を示す。



Testing Circuitry Figure A

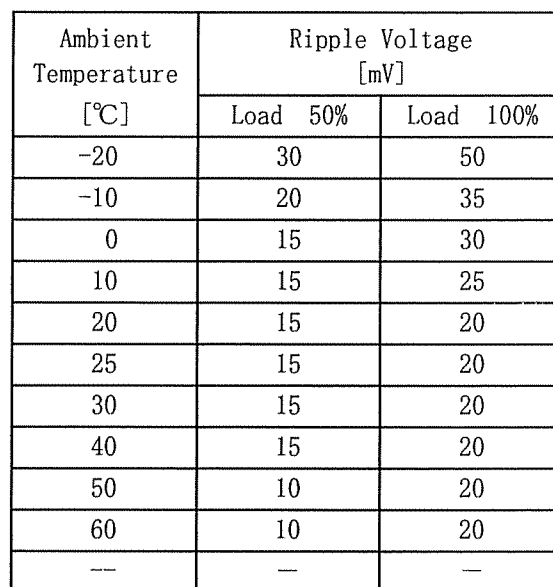
## 2. Values



(注) 斜線は定格周囲温度範囲を示す。

Testing Circuitry Figure A

## 2. Values



(注) 斜線は定格周囲温度範囲を示す。



Model		LDA150W-24-H	Testing Circuitry    Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24V6.3A	

### 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 ~ 40°C

Input Voltage : 85 ~ 132V

Load Current : 0 ~ 6.3A

\* 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

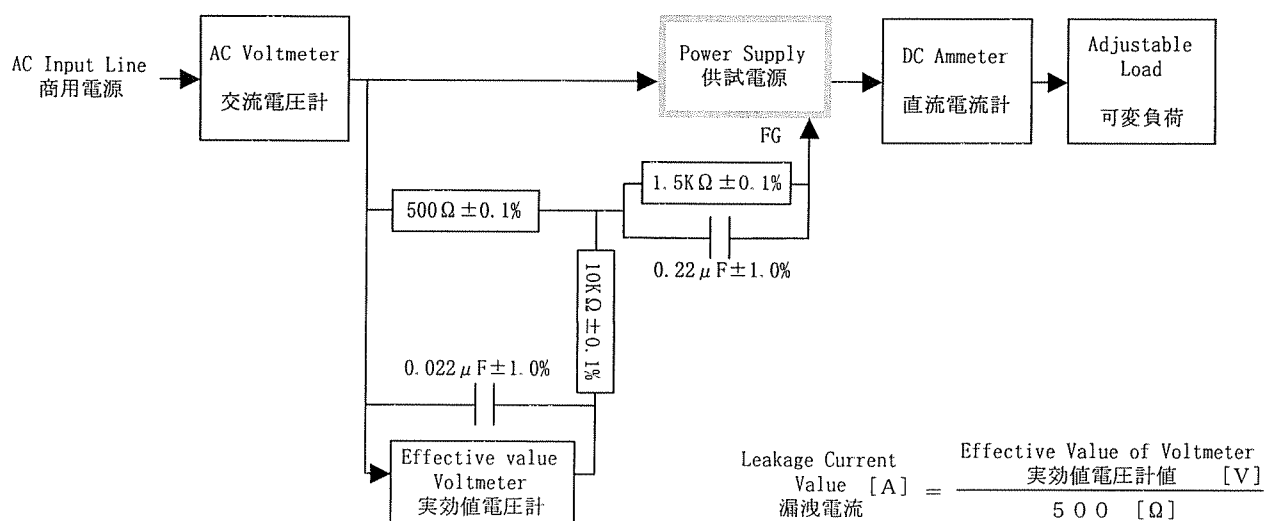
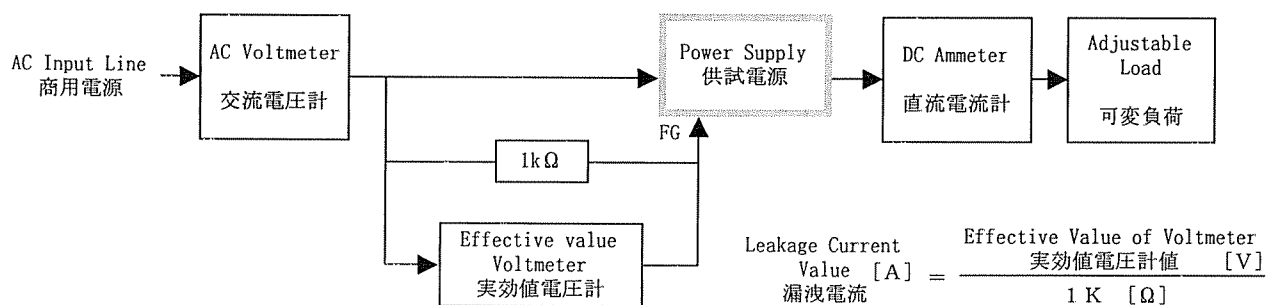
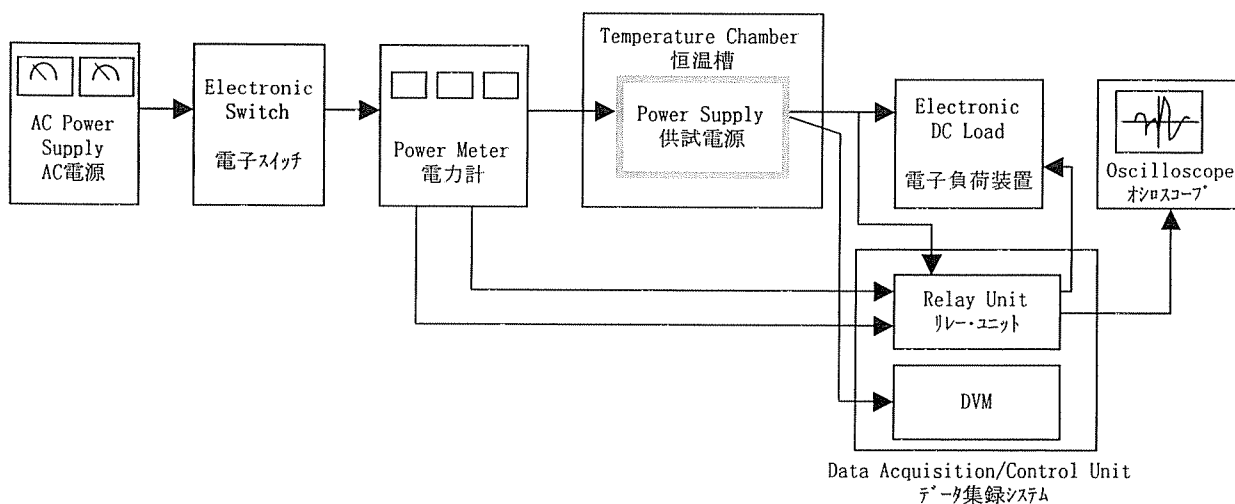
負荷電流 : 0 ~ 6.3A

\* 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	132	0	24.256	±8	±0.1
Minimum Voltage	-10	85	6.3	24.240		



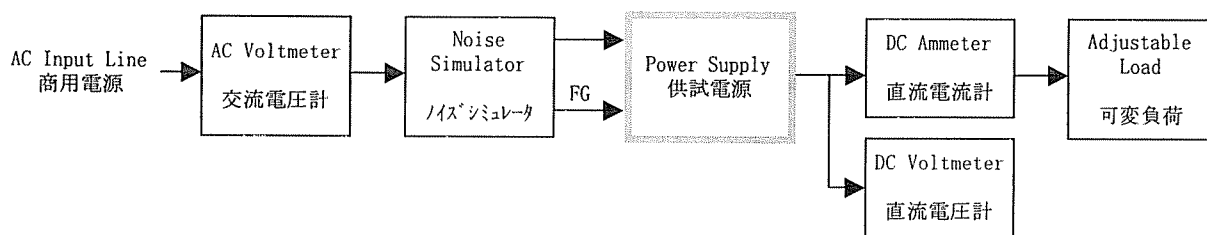


Figure C

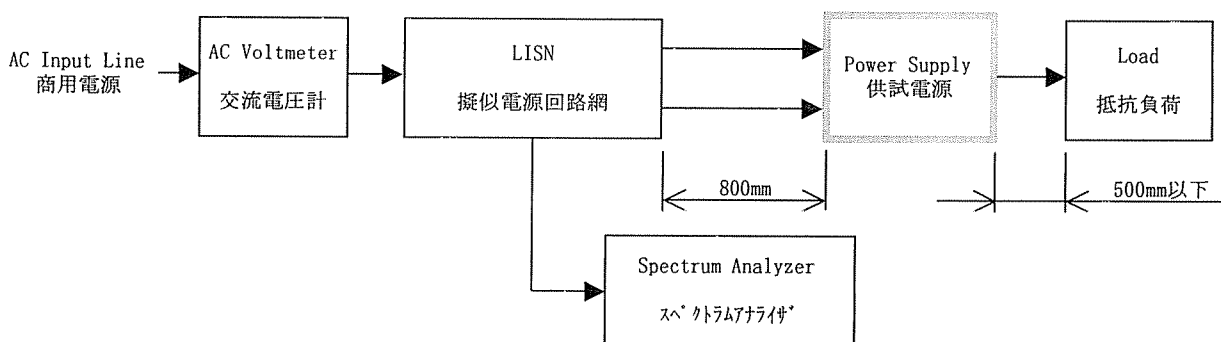


Figure D

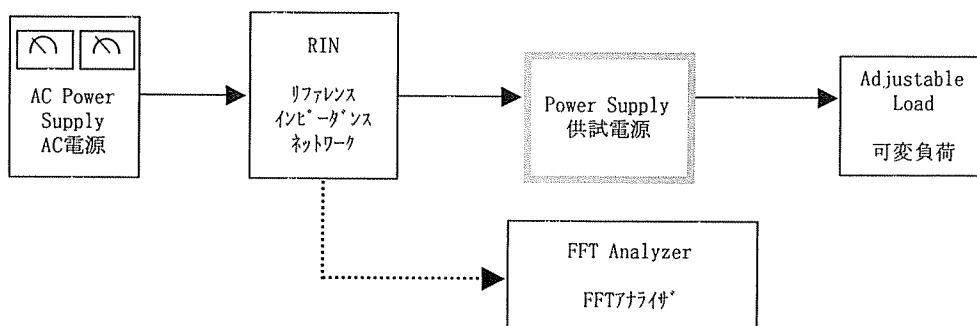


Figure E