



# TEST DATA OF LCA75S-36

(100V INPUT)

Regulated DC Power Supply

Apr. 10, 2000

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Design Manager

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Design Engineer

**コーセル株式会社**  
**COSEL CO., LTD.**

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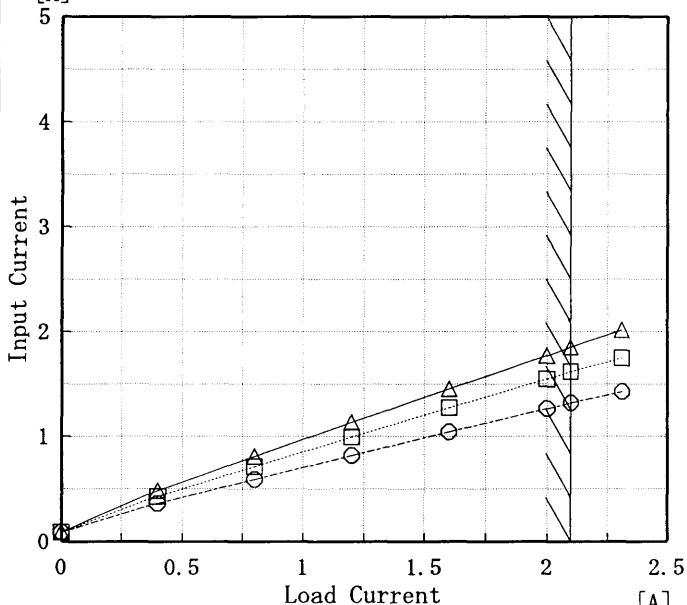
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Model		LCA75S-36		Temperature		25℃																																	
Item		Line Regulation 静の入力変動		Testing Circuitry		Figure A																																	
Object		+36.0V2.1A																																					
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<div><div><div>[A]</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div><div><div>Input Current</div></div></div>  <div><div>0</div><div>0.5</div><div>1</div><div>1.5</div><div>2</div><div>2.5</div></div> <div><div>Load Current</div><div>[A]</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>0.091</td><td>0.088</td><td>0.089</td></tr><tr><td>0.40</td><td>0.486</td><td>0.430</td><td>0.365</td></tr><tr><td>0.80</td><td>0.810</td><td>0.713</td><td>0.593</td></tr><tr><td>1.20</td><td>1.135</td><td>0.996</td><td>0.821</td></tr><tr><td>1.60</td><td>1.454</td><td>1.274</td><td>1.045</td></tr><tr><td>2.00</td><td>1.770</td><td>1.548</td><td>1.265</td></tr><tr><td>2.10</td><td>1.851</td><td>1.618</td><td>1.321</td></tr><tr><td>2.31</td><td>2.015</td><td>1.749</td><td>1.425</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></table>		Load Current [A]	Input Current [A]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	0.00	0.091	0.088	0.089	0.40	0.486	0.430	0.365	0.80	0.810	0.713	0.593	1.20	1.135	0.996	0.821	1.60	1.454	1.274	1.045	2.00	1.770	1.548	1.265	2.10	1.851	1.618	1.321	2.31	2.015	1.749	1.425	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Model		LCA75S-36		Temperature		25℃	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A	
Object		+36.0V2.1A					
1. Graph				2. Values			

Load 50%

Load 100%

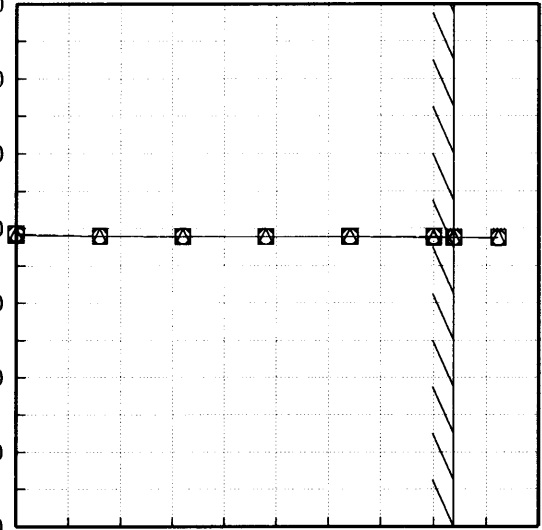
[mS]



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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 load current.</p>																																																										
<p>瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>																																																										

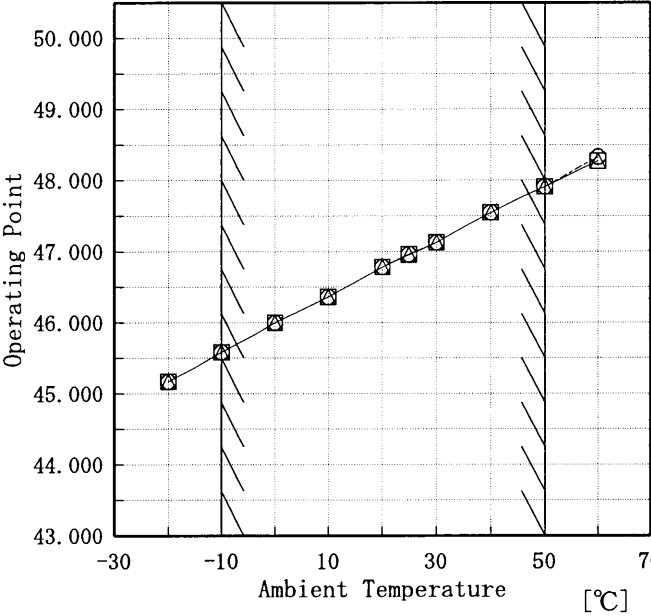
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<div><div><div>—△—</div><div>—□—</div><div>—○—</div></div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div></div> <div><div><div>Output Voltage</div><div>[V]</div><div>36.500</div><div>36.400</div><div>36.300</div><div>36.200</div><div>36.100</div><div>36.000</div><div>35.900</div><div>35.800</div></div><div><div>0</div><div>0.5</div><div>1</div><div>1.5</div><div>2</div><div>2.5</div></div><div><div>Load Current</div><div>[A]</div></div></div>  <div>Note: Slanted line shows the range of the rated load current.</div> <div>(注) 斜線は定格負荷電流範囲を示す。</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>36.191</td><td>36.193</td><td>36.193</td></tr><tr><td>0.40</td><td>36.190</td><td>36.190</td><td>36.190</td></tr><tr><td>0.80</td><td>36.189</td><td>36.189</td><td>36.190</td></tr><tr><td>1.20</td><td>36.189</td><td>36.189</td><td>36.189</td></tr><tr><td>1.60</td><td>36.189</td><td>36.189</td><td>36.189</td></tr><tr><td>2.00</td><td>36.188</td><td>36.189</td><td>36.189</td></tr><tr><td>2.10</td><td>36.188</td><td>36.188</td><td>36.188</td></tr><tr><td>2.31</td><td>36.188</td><td>36.188</td><td>36.187</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]	Output Voltage [V]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	0.00	36.191	36.193	36.193	0.40	36.190	36.190	36.190	0.80	36.189	36.189	36.190	1.20	36.189	36.189	36.189	1.60	36.189	36.189	36.189	2.00	36.188	36.189	36.189	2.10	36.188	36.188	36.188	2.31	36.188	36.188	36.187	—	—	—	—	—	—	—	—
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**COSEL**

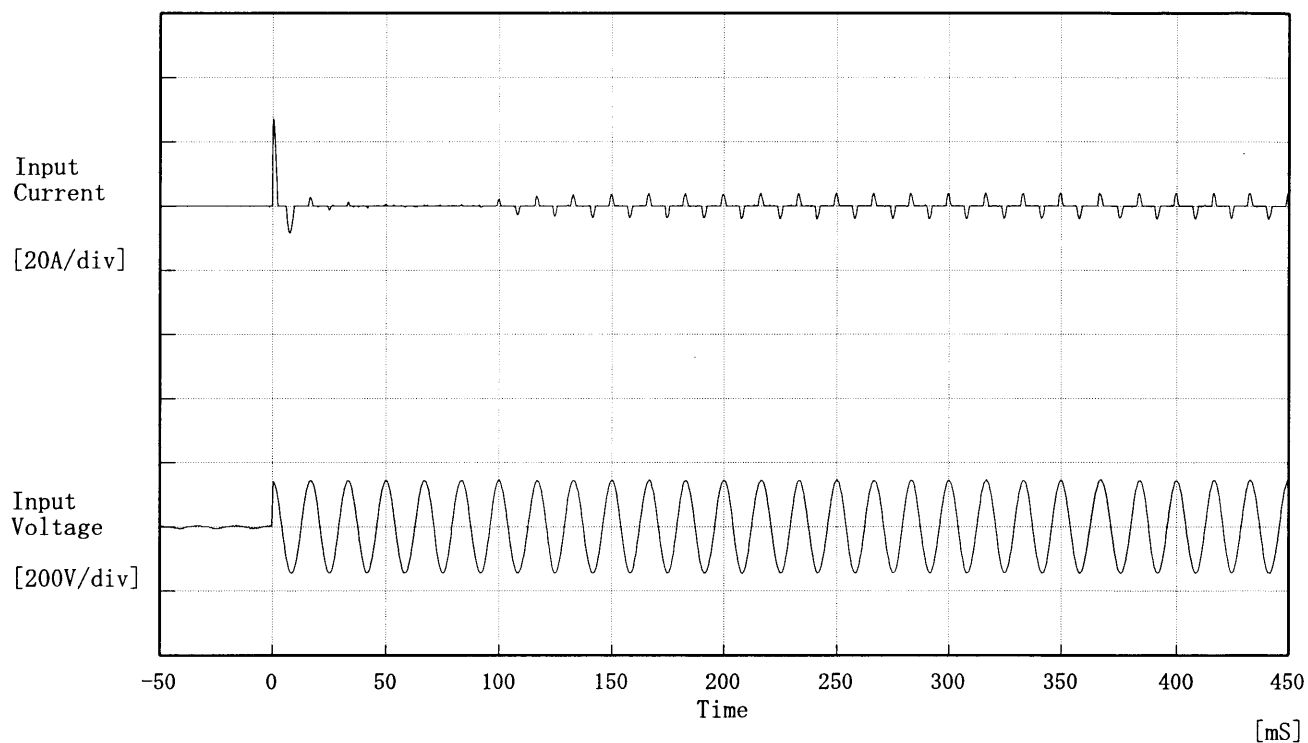
Model	LCA75S-36																																																									
Item	Overcurrent Protection 過電流保護	Temperature	25℃																																																							
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<div><div><div></div><div></div><div></div></div><div>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</div></div> <div>[V]</div> <div><div>Output Voltage</div><div>Load Current</div><div>[A]</div></div>		<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>36.00</td><td>2.663</td><td>2.659</td><td>2.671</td></tr><tr><td>34.20</td><td>2.673</td><td>2.669</td><td>2.686</td></tr><tr><td>32.40</td><td>2.682</td><td>2.679</td><td>2.700</td></tr><tr><td>28.80</td><td>2.706</td><td>2.707</td><td>2.722</td></tr><tr><td>25.20</td><td>2.731</td><td>2.734</td><td>2.742</td></tr><tr><td>21.60</td><td>2.749</td><td>2.760</td><td>2.753</td></tr><tr><td>18.00</td><td>2.762</td><td>2.762</td><td>2.769</td></tr><tr><td>14.40</td><td>2.776</td><td>2.773</td><td>2.782</td></tr><tr><td>10.80</td><td>2.784</td><td>2.778</td><td>2.786</td></tr><tr><td>7.20</td><td>2.779</td><td>2.768</td><td>2.762</td></tr><tr><td>3.60</td><td>2.728</td><td>2.709</td><td>2.670</td></tr><tr><td>0.00</td><td>2.731</td><td>2.773</td><td>2.856</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	36.00	2.663	2.659	2.671	34.20	2.673	2.669	2.686	32.40	2.682	2.679	2.700	28.80	2.706	2.707	2.722	25.20	2.731	2.734	2.742	21.60	2.749	2.760	2.753	18.00	2.762	2.762	2.769	14.40	2.776	2.773	2.782	10.80	2.784	2.778	2.786	7.20	2.779	2.768	2.762	3.60	2.728	2.709	2.670	0.00	2.731	2.773	2.856
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# COSEL

Model		LCA75S-36	Testing Circuitry      Figure A
Item		Overvoltage Protection 過電圧保護	
Object		+36.0V2.1A	
1. Graph			
		<div><div><div>△</div><div>Input Volt. 85 V</div></div><div><div>□</div><div>Input Volt. 100 V</div></div><div><div>○</div><div>Input Volt. 132 V</div></div></div>	2. Values
[V]			
			
Ambient Temperature [°C]			
Load    0%			
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。			

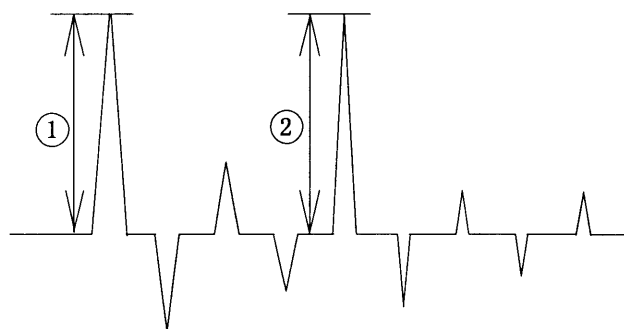
**COSEL**

Model	LCA75S-36	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 27.21 [A]  
② 4.01 [A]

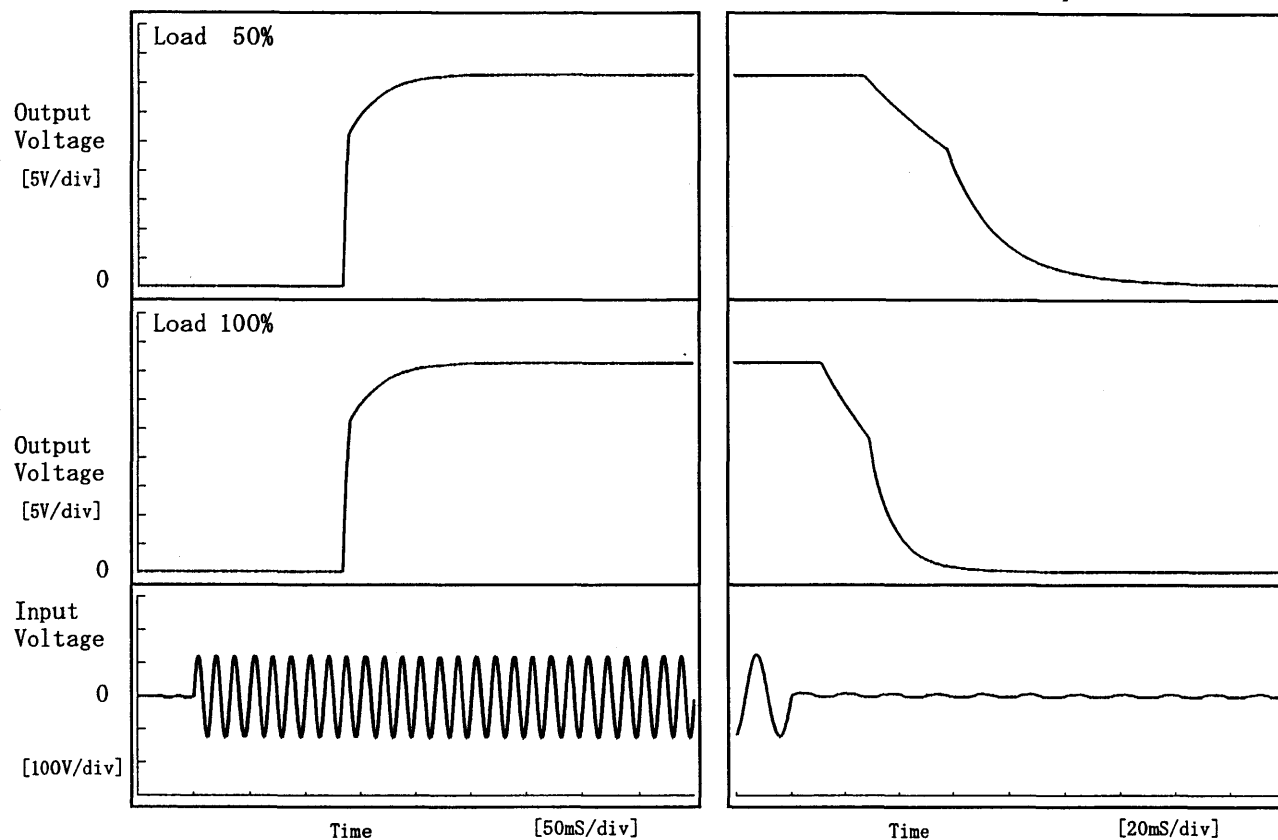


**COSEL**

Model	LCA75S-36	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+36.0V2.1A		

## 1. Graph

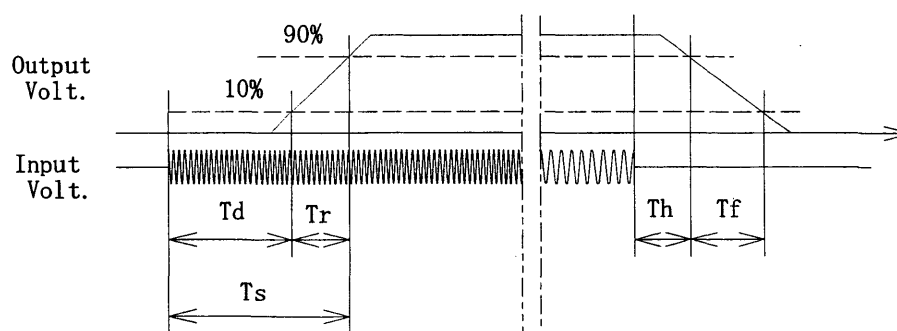
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	133.8	31.5	165.3	35.4	58.4
100 %	134.0	33.0	167.0	16.1	29.7



BC-4111

# COSEL

Model		LCA75S-36	
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	
Object		+36.0V2.1A	
1. Graph		2. Values	

-----□-----

Load 50%

-----△-----

Load 100%

[V]

100.0

80.0

60.0

40.0

20.0

0.0

Input Voltage

Ambient Temperature [°C]

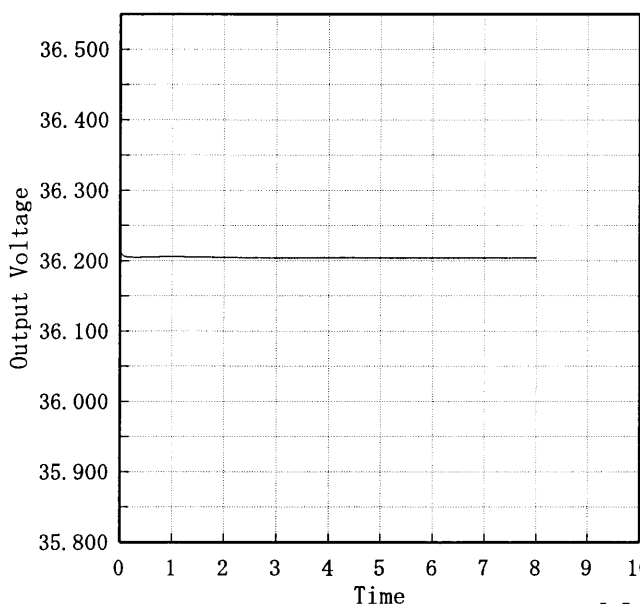
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	65	69
-10	64	69
0	64	69
10	63	68
20	63	68
25	63	68
30	63	68
40	63	69
50	63	69
60	63	69
—	—	—



# COSEL

COSEL																									
Model	LCA75S-36																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
		Testing Circuitry	Figure A																						
Object	+36.0V2.1A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage</div> <div>Time</div> <div>[H]</div> <div>Input Volt. 100V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>36.220</td></tr><tr><td>0.5</td><td>36.205</td></tr><tr><td>1.0</td><td>36.206</td></tr><tr><td>2.0</td><td>36.205</td></tr><tr><td>3.0</td><td>36.204</td></tr><tr><td>4.0</td><td>36.204</td></tr><tr><td>5.0</td><td>36.204</td></tr><tr><td>6.0</td><td>36.204</td></tr><tr><td>7.0</td><td>36.204</td></tr><tr><td>8.0</td><td>36.204</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	36.220	0.5	36.205	1.0	36.206	2.0	36.205	3.0	36.204	4.0	36.204	5.0	36.204	6.0	36.204	7.0	36.204	8.0	36.204
Time since start [H]	Output Voltage [V]																								
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5.0	36.204																								
6.0	36.204																								
7.0	36.204																								
8.0	36.204																								

**COSEL**

		Testing Circuitry    Figure A
Model	LCA75S-36	
Item	Output Voltage Accuracy 定電圧精度	
Object	+36.0V 2.1A	

## 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 : 85~132 V

Load Current : 0~2.1 A

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

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

## 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            -10~50 °C

入力電圧            85~132 V

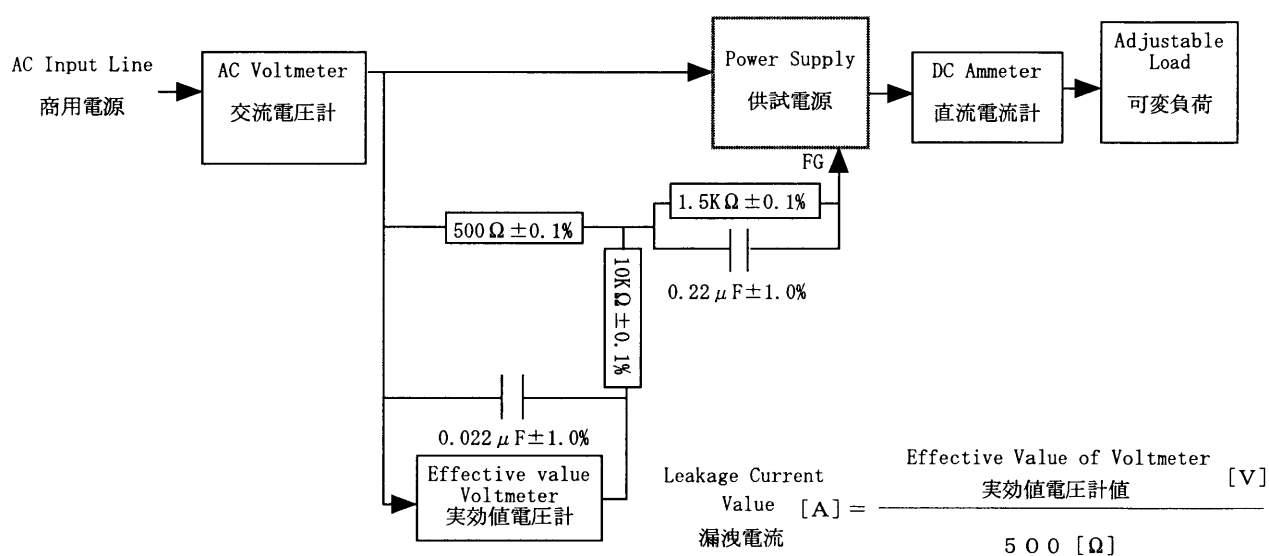
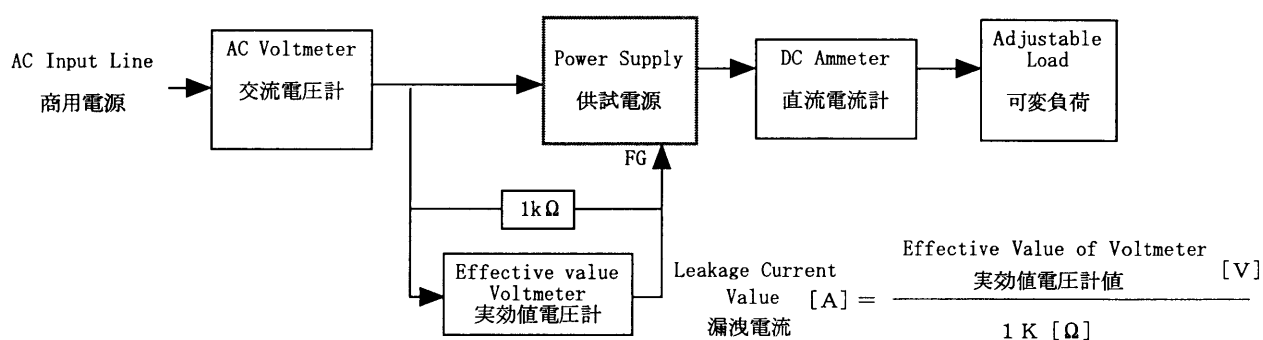
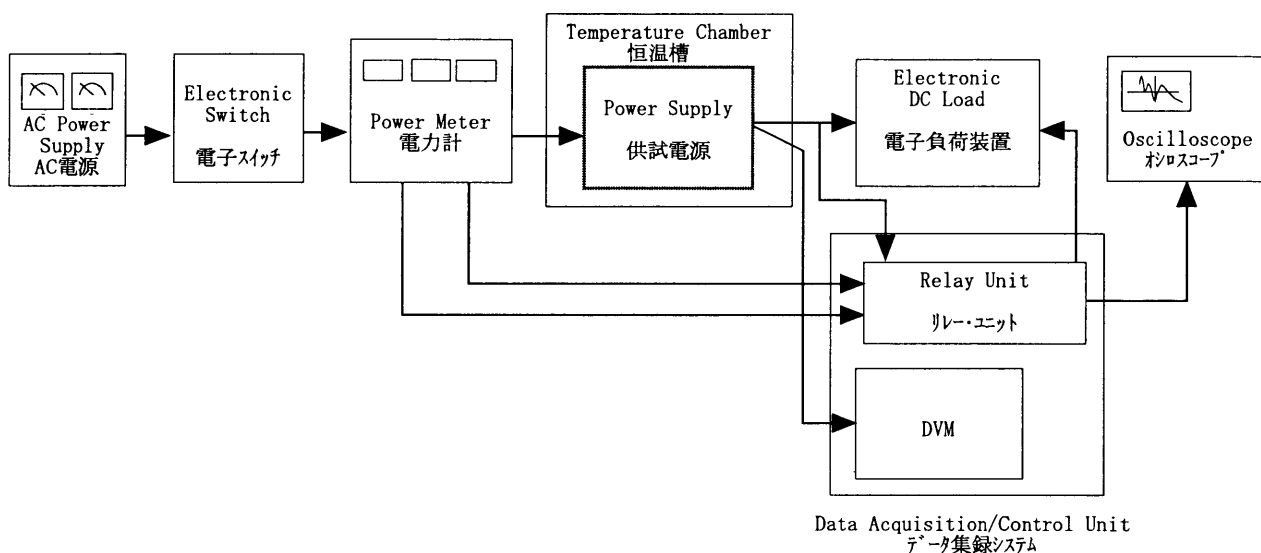
負荷電流            0~2.1 A

\* 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 Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	132	0.0	36.238	±50	±0.2
Minimum Voltage	50	132	2.1	36.139		



# COSEL

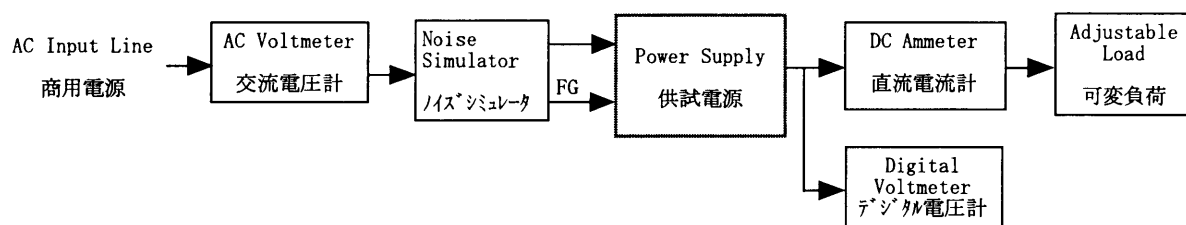


Figure C

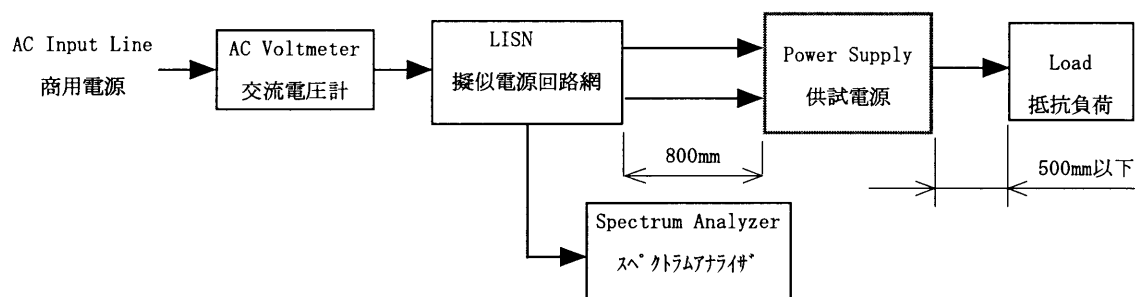


Figure D

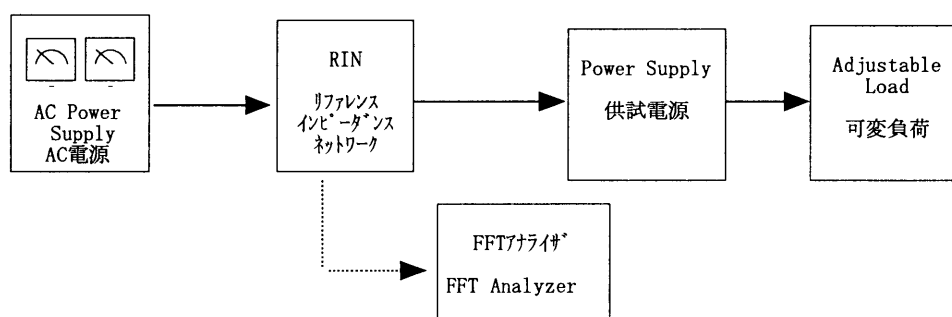


Figure E