



TEST DATA OF LCA75S-36
(100V INPUT)

Regulated DC Power Supply

Apr. 10, 2000

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Design Manager

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コーセル株式会社
COSEL CO., LTD.



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COSEL																																		
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Item	Line Regulation 静的入力変動	Testing Circuitry Figure A																																
Object	+36.0V 2.1A																																	
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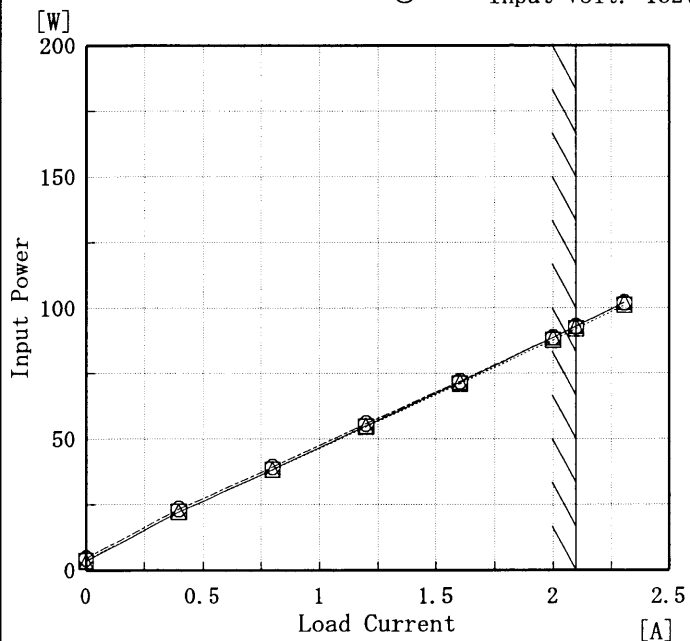


Model	LCA75S-36
Item	Input Power (by Load Current) 入力電力 (負荷特性)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph

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



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

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2. Values

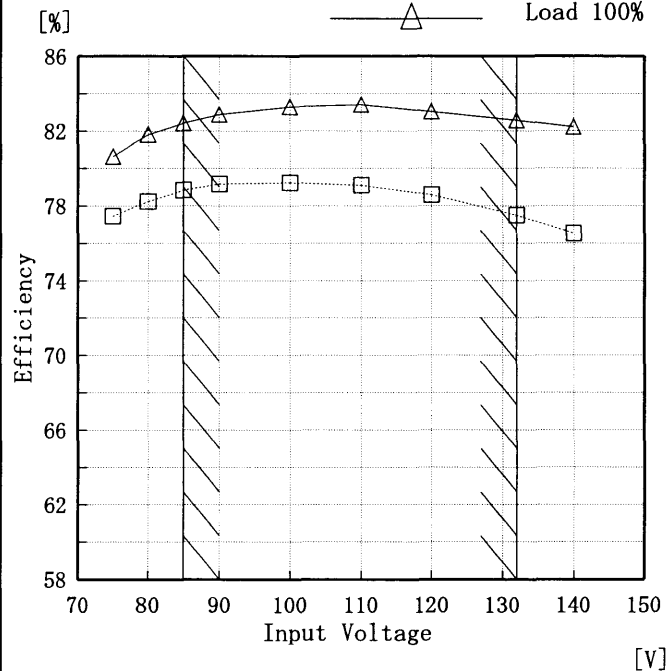
Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	3.30	3.59	4.57
0.40	22.14	22.15	23.31
0.80	38.37	38.23	39.41
1.20	54.99	54.61	55.80
1.60	71.61	71.02	72.10
2.00	88.60	87.70	88.60
2.10	93.00	92.10	92.90
2.31	102.10	101.10	102.00
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model	LCA75S-36
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph □ Load 50%
△ Load 100%



Note: Slanted line shows the range of the rated input voltage.

(注) 斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	77.5	80.6
80	78.2	81.8
85	78.8	82.4
90	79.2	82.9
100	79.2	83.3
110	79.1	83.4
120	78.6	83.0
132	77.5	82.6
140	76.5	82.2



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<p>1. Graph</p> <p>[V]</p> <p>Output Voltage</p> <p>50.0</p> <p>40.0</p> <p>30.0</p> <p>20.0</p> <p>10.0</p> <p>0.0</p> <p>0 1 2 3</p> <p>Load Current [A]</p> <p> Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V </p>		<p>2. Values</p> <table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </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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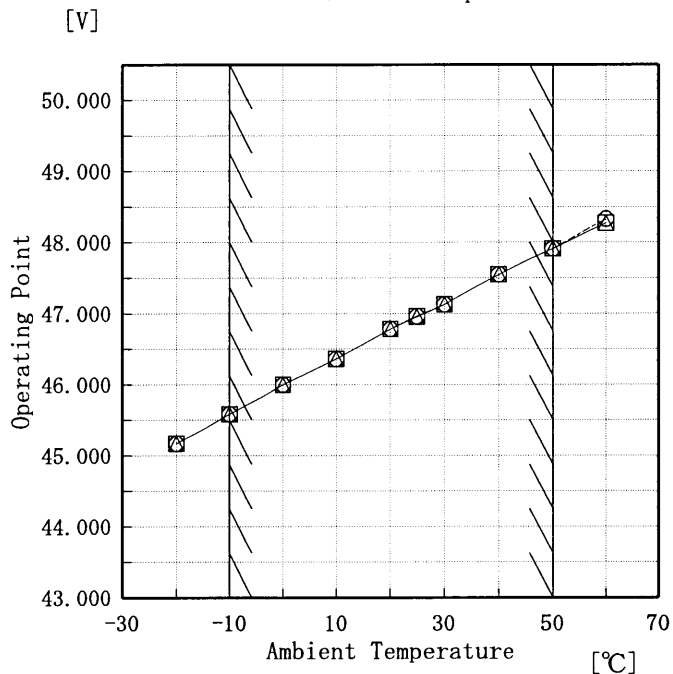


Model	LCA75S-36
Item	Overvoltage Protection 過電圧保護
Object	+36.0V2.1A

Testing Circuitry Figure A

1. Graph

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



Load 0%

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

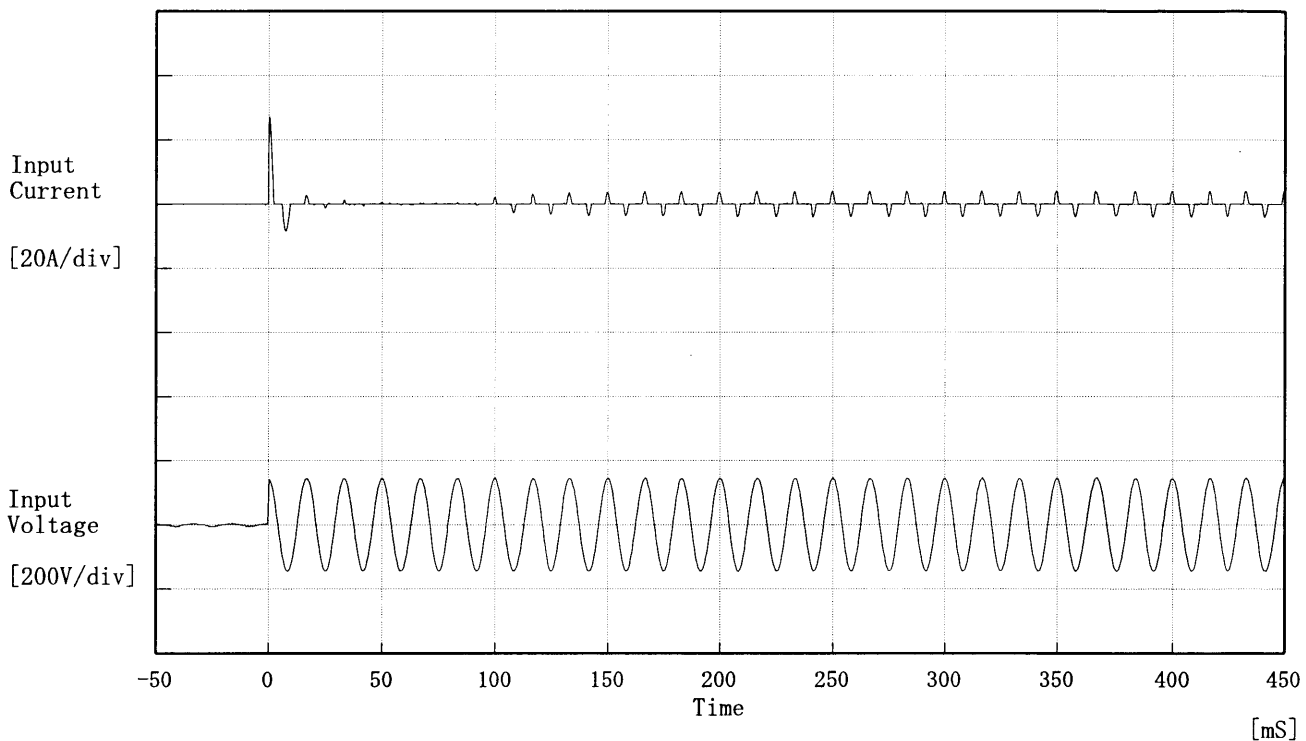
(注)斜線は定格周囲温度範囲を示す。

2. Values

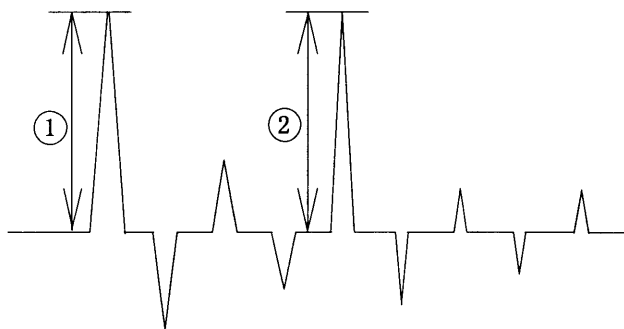
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	45.17	45.17	45.17
-10	45.58	45.58	45.58
0	46.00	46.00	46.00
10	46.36	46.36	46.36
20	46.78	46.78	46.78
25	46.95	46.96	46.96
30	47.13	47.13	47.13
40	47.55	47.55	47.55
50	47.91	47.91	47.91
60	48.27	48.27	48.33
—	—	—	—



Model	LCA75S-36	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



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

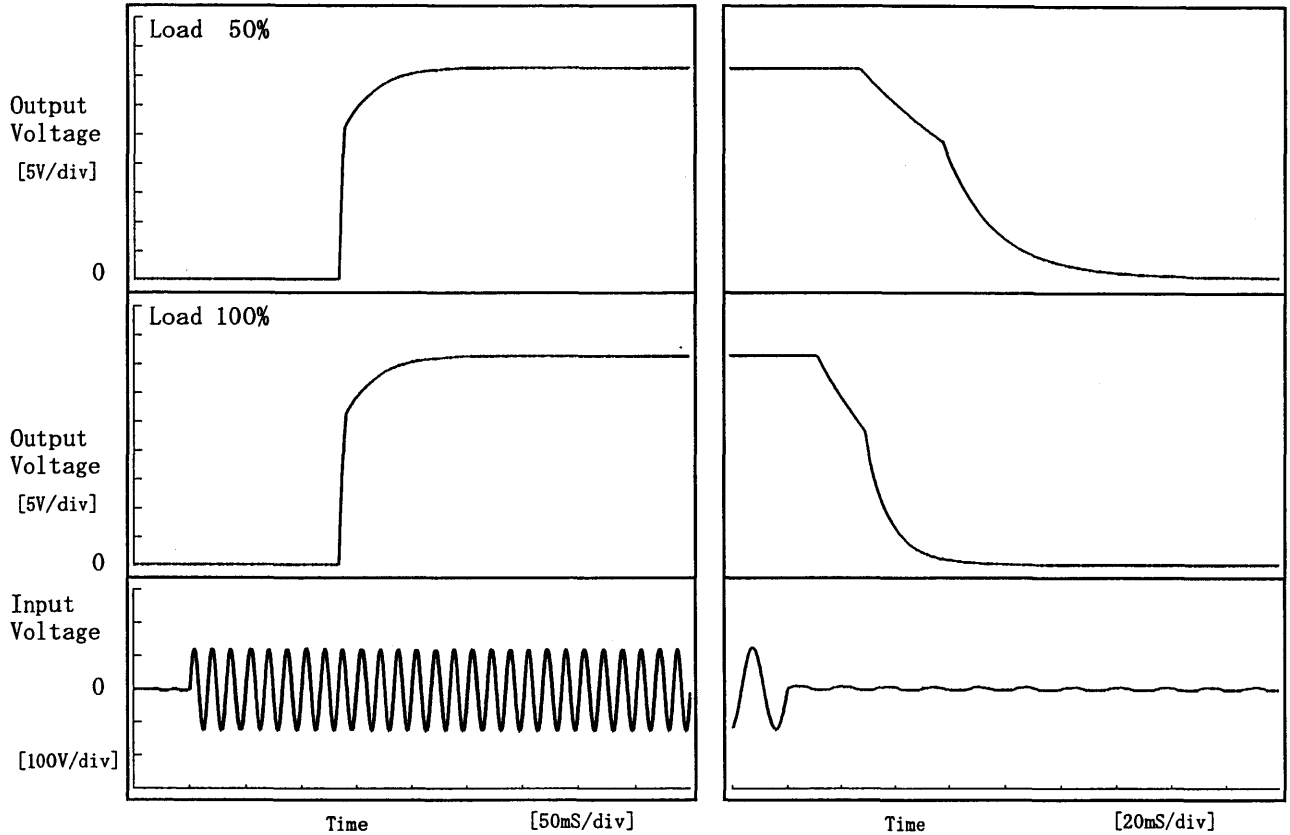


COSEL

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

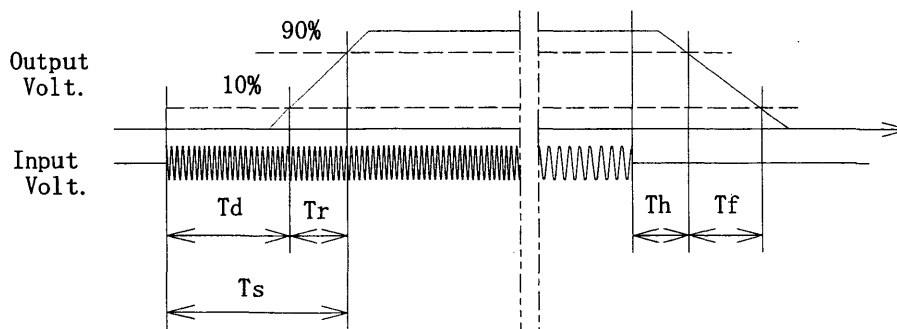
Input Volt. 85 V



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

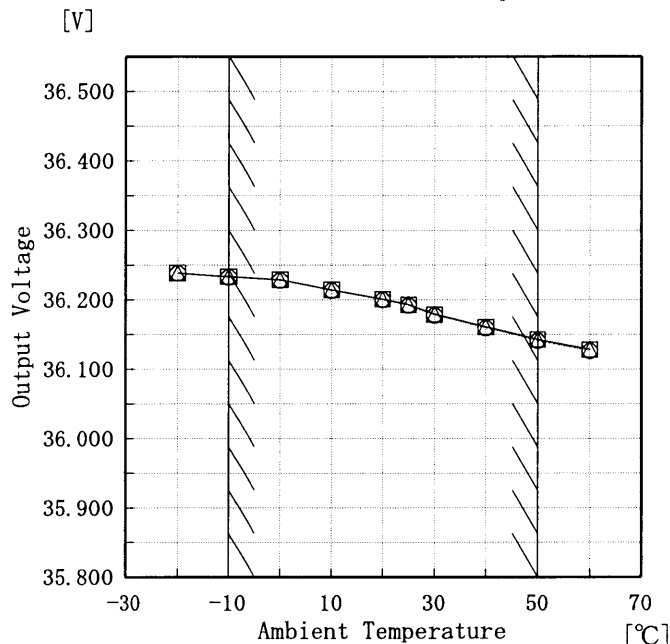




Model	LCA75S-36	Testing Circuitry Figure A
Item	Ambient Temperature Drift 周囲温度変動	
Object	+36.0V2.1A	

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。

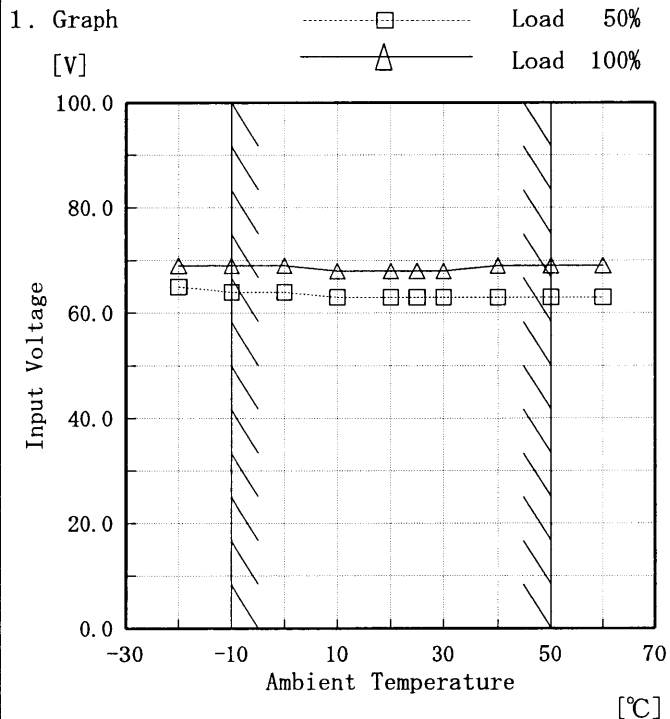
2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	36.238	36.239	36.238
-10	36.233	36.233	36.232
0	36.229	36.229	36.228
10	36.214	36.215	36.213
20	36.201	36.201	36.200
25	36.193	36.193	36.192
30	36.179	36.179	36.178
40	36.161	36.160	36.159
50	36.143	36.143	36.141
60	36.128	36.128	36.126
—	—	—	—



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

Testing Circuitry Figure A



2. Values

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
—	—	—

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																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	+36.0V2.1A																								
<p>1. Graph</p> <p>[V]</p> <p>Output Voltage</p> <p>Time [H]</p> <p>Input Volt. 100V Load 100%</p>		<p>2. Values</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>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> </tbody> </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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8.0	36.204																								



COSEL		
Model	LCA75S-36	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+36.0V2.1A	

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		

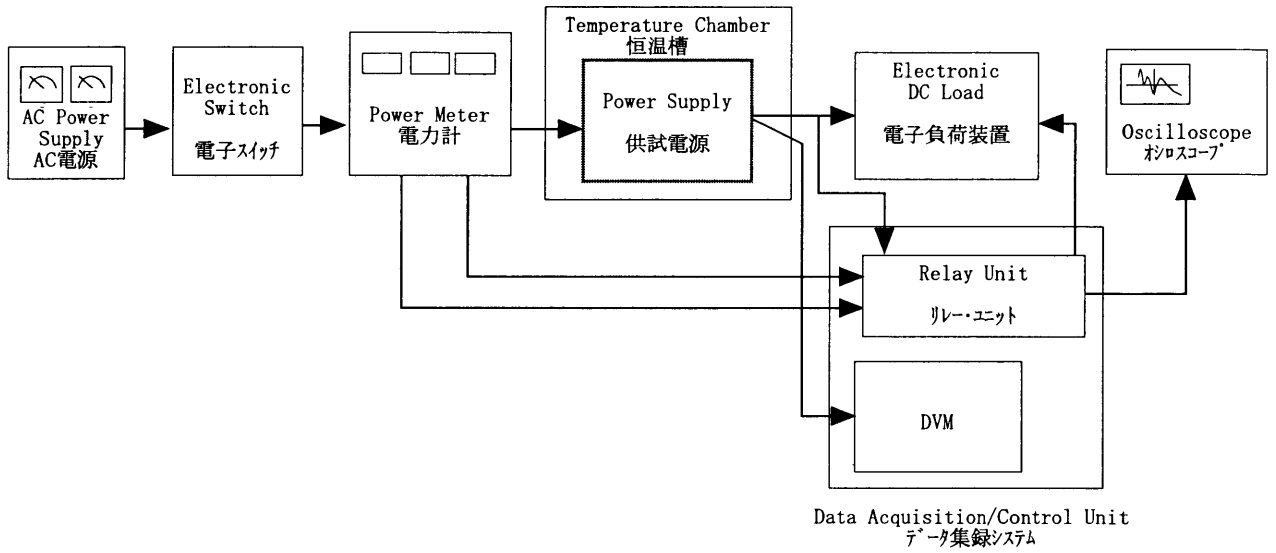


Figure A

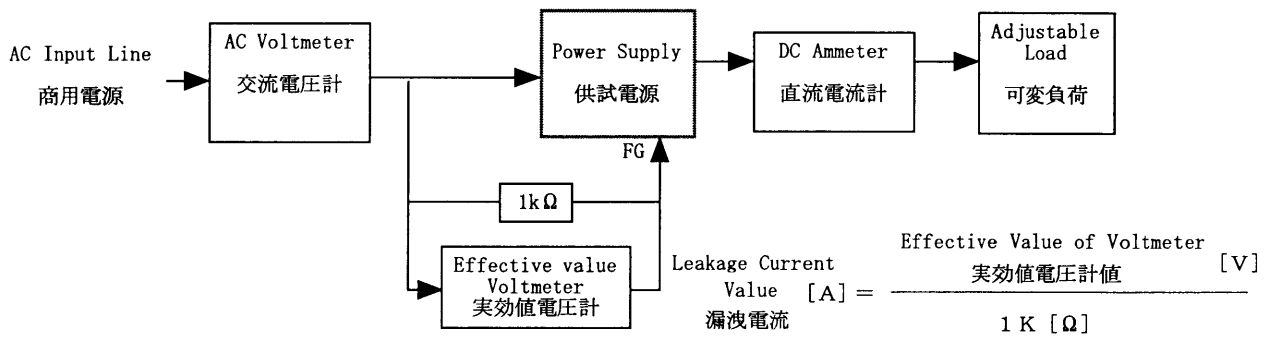


Figure B (DENTORI)

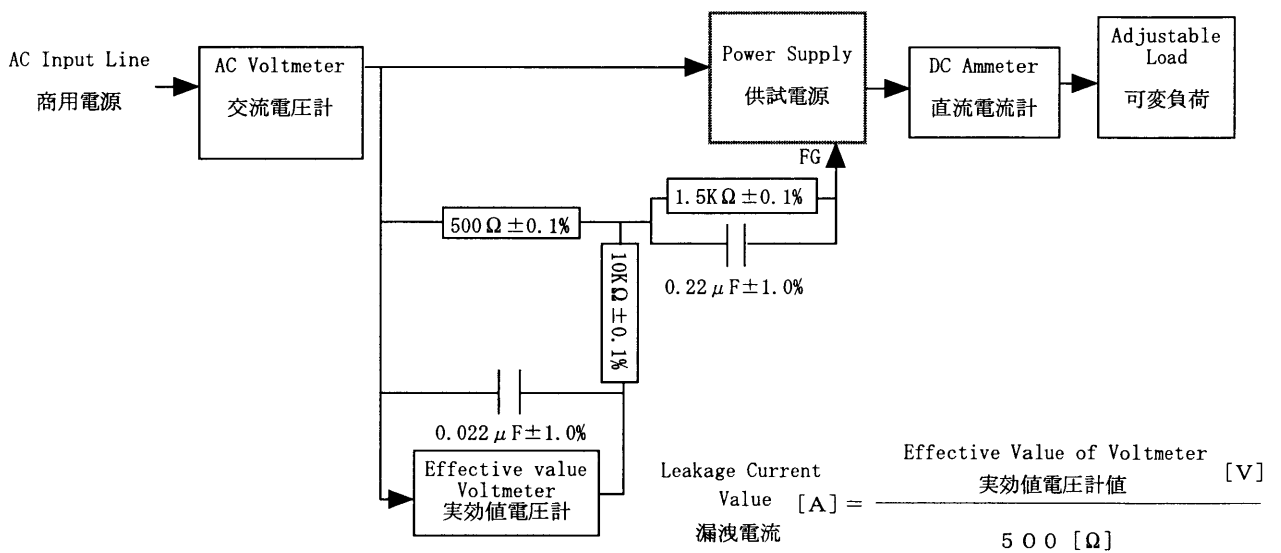


Figure B (IEC60950)

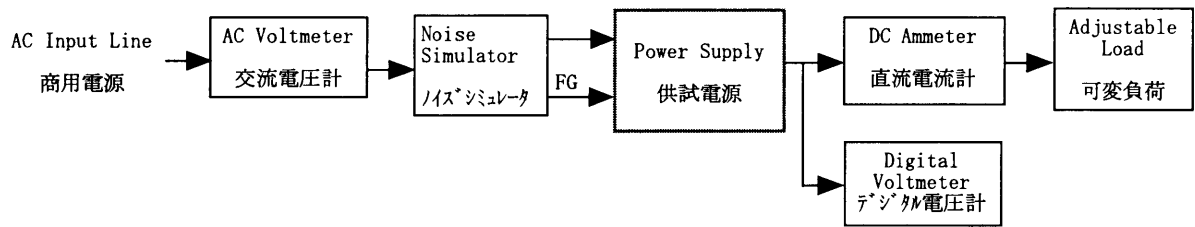


Figure C

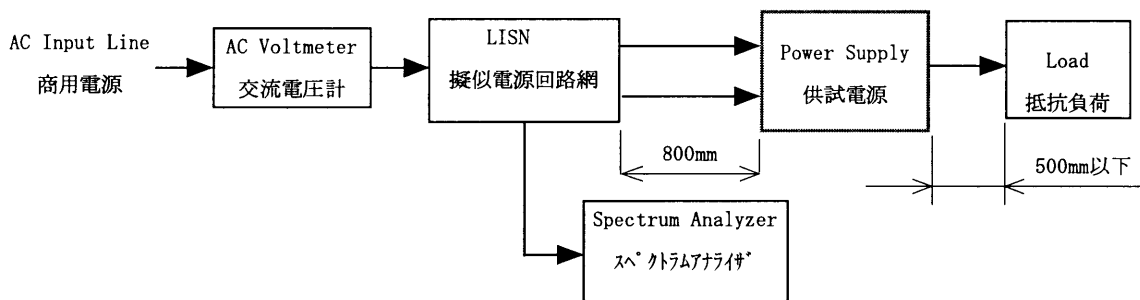


Figure D

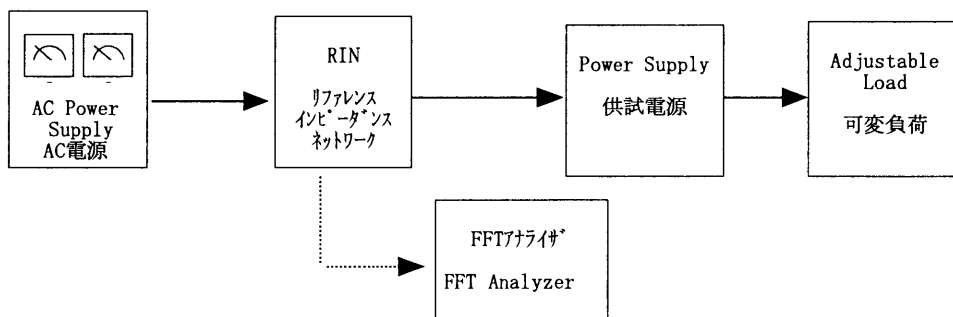


Figure E