



# TEST DATA OF LCA75S-12

(100V INPUT)

Regulated DC Power Supply

Date : Aug.23. 1999

Approved by : H. Yamaguchi  
Design Manager

Prepared by : S. Taniguchi  
Design Engineer

**コーセル株式会社**  
**COSEL CO.,LTD.**

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Model		LCA75S-12		Temperature		25°C																																	
Item		Line Regulation 静的入力変動		Testing Circuitry		Figure A																																	
Object		+12.0V6.3A																																					
1. Graph				2. Values																																			
<div><div>□ Load 50%</div><div>—△— Load 100%</div></div> <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>				<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>12.185</td><td>12.184</td></tr><tr><td>80</td><td>12.186</td><td>12.184</td></tr><tr><td>85</td><td>12.186</td><td>12.184</td></tr><tr><td>90</td><td>12.186</td><td>12.184</td></tr><tr><td>100</td><td>12.186</td><td>12.184</td></tr><tr><td>110</td><td>12.186</td><td>12.184</td></tr><tr><td>120</td><td>12.186</td><td>12.184</td></tr><tr><td>132</td><td>12.185</td><td>12.184</td></tr><tr><td>140</td><td>12.185</td><td>12.184</td></tr></table>				Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	12.185	12.184	80	12.186	12.184	85	12.186	12.184	90	12.186	12.184	100	12.186	12.184	110	12.186	12.184	120	12.186	12.184	132	12.185	12.184	140	12.185	12.184
Input Voltage [V]	Output Voltage [V]																																						
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Model	LCA75S-12	Temperature	25°C
Item	Input Current (by Load Current) 入力電流 (負荷特性)	Testing Circuitry	Figure A
Output	—		

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

[A]

5

4

3

2

1

0

Input Current

[A]

0

2

4

6

8

Load Current

[A]

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。

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.064	0.065	0.070
1.00	0.374	0.343	0.303
2.00	0.648	0.581	0.492
3.00	0.931	0.829	0.682
4.00	1.219	1.079	0.886
5.00	1.499	1.326	1.084
6.00	1.780	1.566	1.278
6.30	1.867	1.642	1.338
6.93	2.042	1.793	1.456
—	—	—	—
—	—	—	—
—	—	—	—

# COSEL

Model		LCA75S-12		Temperature		25℃																																																								
Item		Input Power (by Load Current) 入力電力（負荷特性）		Testing Circuitry		Figure A																																																								
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<div><div><div>△</div><div>—</div><div>Input Volt. 85V</div></div><div><div>□</div><div>—</div><div>Input Volt. 100V</div></div><div><div>○</div><div>—</div><div>Input Volt. 132V</div></div></div> <div><div><div>[W]</div><div>200</div></div><div><div>150</div></div><div><div>100</div></div><div><div>50</div></div><div><div>0</div></div><div>Input Power</div></div> <div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div></div><div>Load Current</div><div>[A]</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">Input Power [W]</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>2.13</td><td>2.47</td><td>3.33</td></tr><tr><td>1.00</td><td>17.38</td><td>17.94</td><td>19.50</td></tr><tr><td>2.00</td><td>31.50</td><td>31.95</td><td>33.40</td></tr><tr><td>3.00</td><td>45.90</td><td>46.20</td><td>47.40</td></tr><tr><td>4.00</td><td>60.80</td><td>60.90</td><td>62.00</td></tr><tr><td>5.00</td><td>75.90</td><td>75.70</td><td>76.50</td></tr><tr><td>6.00</td><td>91.10</td><td>90.80</td><td>91.10</td></tr><tr><td>6.30</td><td>95.70</td><td>95.20</td><td>95.50</td></tr><tr><td>6.93</td><td>105.40</td><td>104.70</td><td>104.70</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 Power [W]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	0.00	2.13	2.47	3.33	1.00	17.38	17.94	19.50	2.00	31.50	31.95	33.40	3.00	45.90	46.20	47.40	4.00	60.80	60.90	62.00	5.00	75.90	75.70	76.50	6.00	91.10	90.80	91.10	6.30	95.70	95.20	95.50	6.93	105.40	104.70	104.70	—	—	—	—	—	—	—	—	—	—	—	—
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0

2

4

6

8

Load Current

[A]

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Model		LCA75S-12		Temperature 25℃	
Item		Efficiency 効率		Testing Circuitry Figure A	
Object					

1. Graph

□ Load 50%

—△— Load 100%

Efficiency [%]

Input Voltage [V]

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	80.0	79.7
80	80.0	80.2
85	79.8	80.4
90	79.8	80.6
100	79.3	80.8
110	78.8	80.9
120	78.2	80.7
132	77.4	80.6
140	76.8	80.3

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Model

LCA75S-12

Item

Efficiency (by Load Current)  
効率 (負荷電流特性)

Output

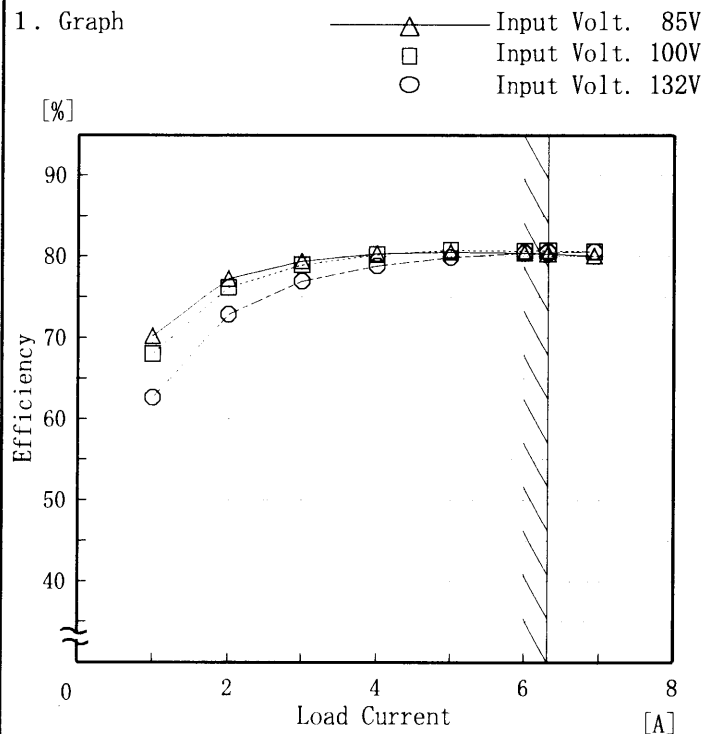
Temperature

25°C

Testing Circuitry

Figure A

## 1. Graph



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。

## 2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
1.00	70.2	68.0	62.6
2.00	77.2	76.2	72.9
3.00	79.4	78.9	76.9
4.00	80.4	80.2	78.8
5.00	80.5	80.8	79.9
6.00	80.4	80.7	80.4
6.30	80.3	80.8	80.5
6.93	80.1	80.6	80.6
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

# COSEL

Model		LCA75S-12		Temperature		25℃																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A																																	
Object		+12.0V6.3A																																					
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<div><div>□ Load 50%</div><div>—△— Load 100%</div></div> <div><div>Hold-Up Time [mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>08090100110120130140150</div><div>Input Voltage [V]</div></div> <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [mS]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>25</td><td>10</td></tr><tr><td>80</td><td>32</td><td>14</td></tr><tr><td>85</td><td>40</td><td>18</td></tr><tr><td>90</td><td>49</td><td>22</td></tr><tr><td>100</td><td>67</td><td>32</td></tr><tr><td>110</td><td>88</td><td>42</td></tr><tr><td>120</td><td>111</td><td>54</td></tr><tr><td>132</td><td>141</td><td>69</td></tr><tr><td>140</td><td>163</td><td>80</td></tr></table>				Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	25	10	80	32	14	85	40	18	90	49	22	100	67	32	110	88	42	120	111	54	132	141	69	140	163	80	<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> <p>出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>			
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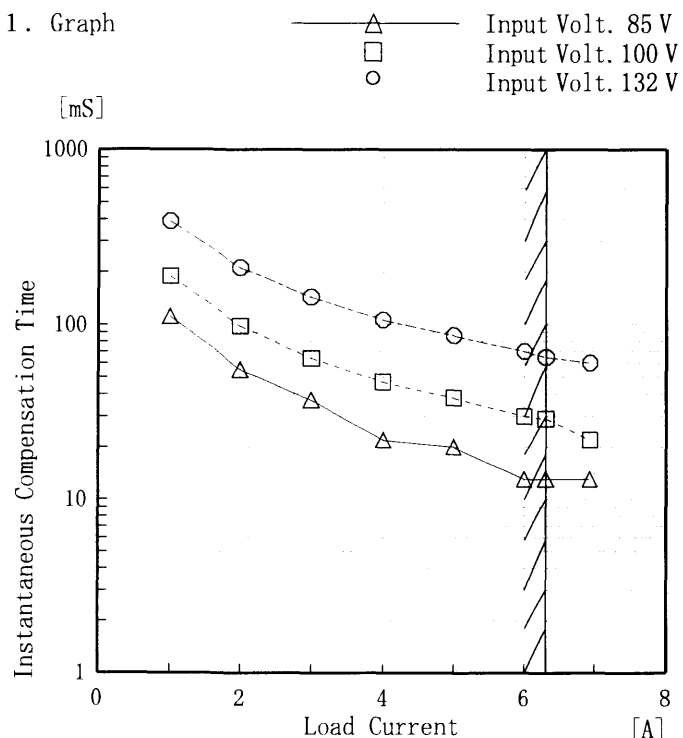
Model LCA75S-12

Item Instantaneous Interruption Compensation  
瞬時停電保障

Object +12.0V6.3A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



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 load current.

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。

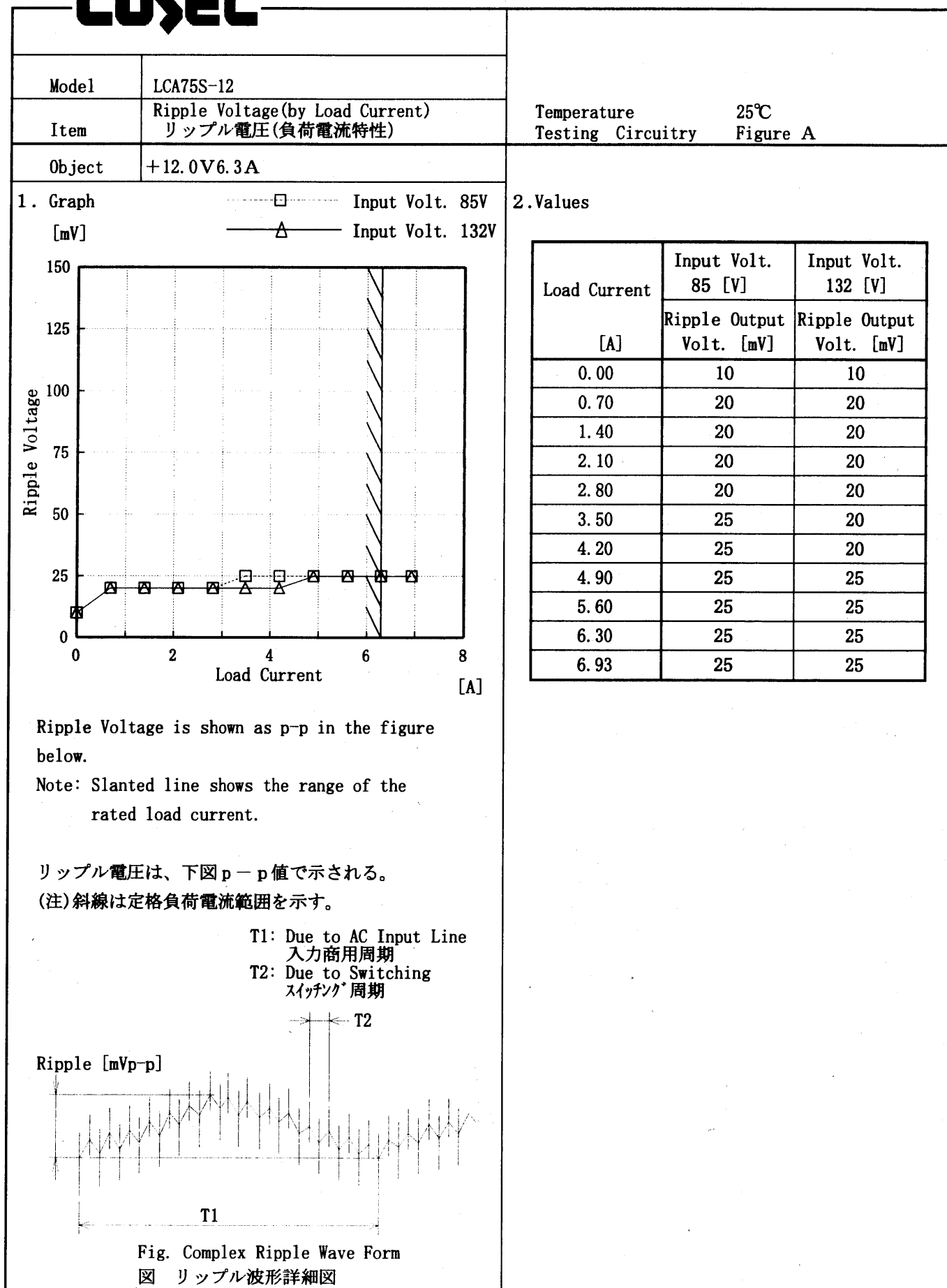
(注) 斜線は定格負荷電流範囲を示す。

## 2. Values

Load Current [A]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	—	—	—
1.00	111	189	390
2.00	55	98	212
3.00	37	64	144
4.00	22	47	106
5.00	20	38	86
6.00	13	30	70
6.30	13	29	65
6.93	13	22	60
—	—	—	—
—	—	—	—

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Model		LCA75S-12		Temperature		25°C																																																																																															
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# COSEL

Model		LCA75S-12	
Item		Ripple-Noise   リップルノイズ	
Object		+12.0V6.3A	

1. Graph

□

Input Volt. 85V

△

Input Volt. 132V

200

180

160

140

120

100

80

60

40

20

0

Ripple-Noise

[mV]

0

2

4

6

8

Load Current

[A]

Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.00	20	20
0.70	30	30
1.40	35	35
2.10	35	35
2.80	35	35
3.50	35	35
4.20	35	35
4.90	35	35
5.60	35	35
6.30	40	35
6.93	40	35

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

T2

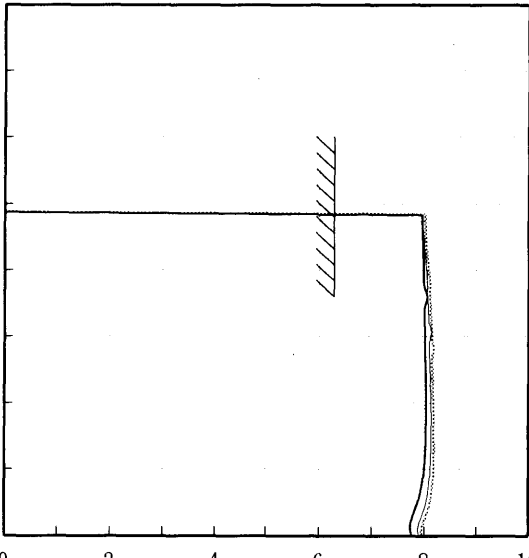
Ripple-Noise  
[mVp-p]

T1

Fig. Complex Ripple Wave Form

図   リップル波形詳細図

**COSEL**

Model		LCA75S-12	Temperature25℃ Testing CircuitryFigure A
Item		Overcurrent Protection 過電流保護	
Object		+12.0V6.3A	
1. Graph			2. Values
<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><div>Output Voltage [V]</div><div>20.0 15.0 10.0 5.0 0.0</div><div>0246810</div><div>Load Current [A]</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>			

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
12.00	8.01	7.96	7.95
11.40	8.02	7.98	7.96
10.80	8.04	8.00	7.97
9.60	8.09	8.04	7.98
8.40	8.12	8.07	8.00
7.20	8.16	8.09	8.01
6.00	8.16	8.11	8.02
4.80	8.18	8.13	8.03
3.60	8.19	8.13	8.03
2.40	8.18	8.11	7.99
1.20	8.11	8.03	7.88
0.00	7.95	7.89	7.77

# COSEL

Model		LCA75S-12	
Item		Overvoltage Protection 過電圧保護	
Object		+12.0V6.3A	

1. Graph

△

□

○

Input Volt. 85 V

Input Volt. 100 V

Input Volt. 132 V

Operating Point [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。

2. Values

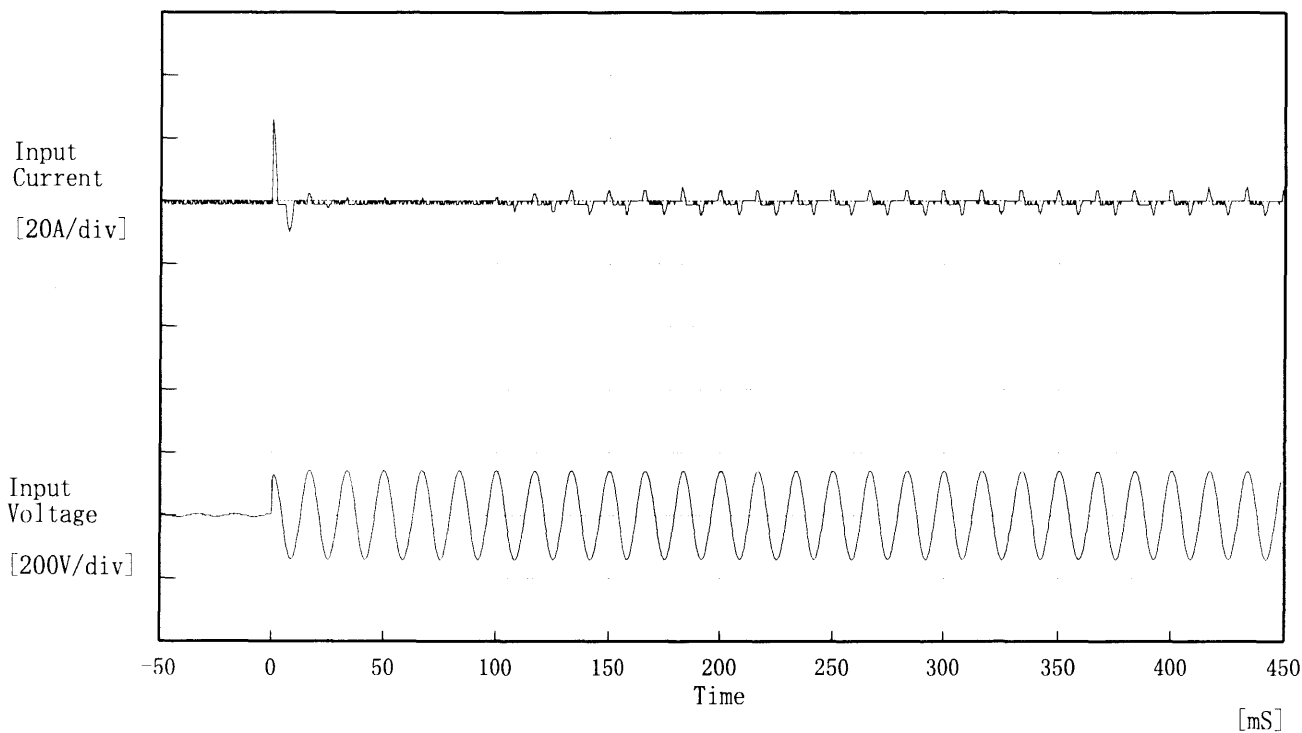
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
-20	14.73	14.67	14.67
-10	14.79	14.79	14.79
0	14.91	14.85	14.85
10	14.97	14.97	14.97
20	15.08	15.08	15.08
25	15.15	15.09	15.09
30	15.20	15.14	15.14
40	15.27	15.27	15.27
50	15.39	15.33	15.33
60	15.45	15.45	15.45
—	—	—	—

—12—

BC-4055

**COSEL**

Model	LCA75S-12	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object			



Input Voltage 100 V

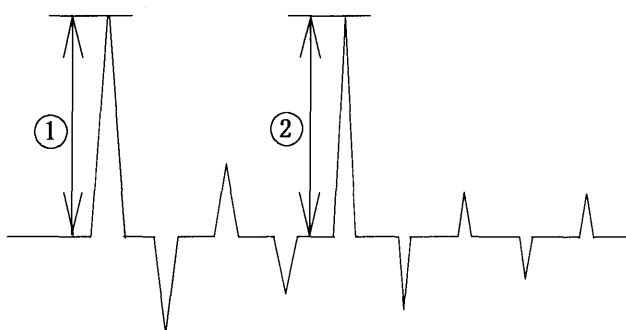
Frequency 60 Hz

Load 100 %

Inrush Current

① 25.84 [A]

② 4.54 [A]



**COSEL**

Model	LCA75S-12	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response 動的負荷変動	
Object	+12.0V 6.3A	

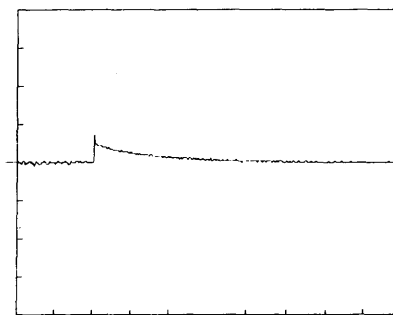
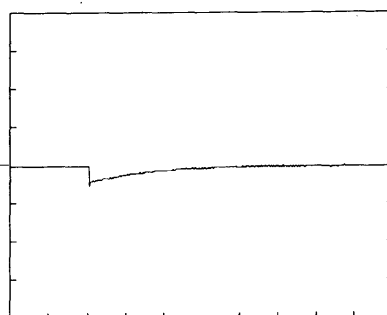
Input Volt. 100 V

Cycle 1000 mS

Load Current

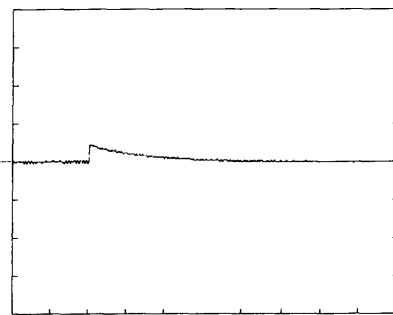
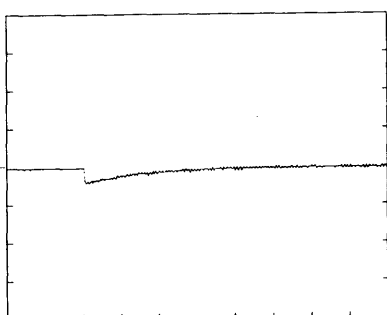
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div

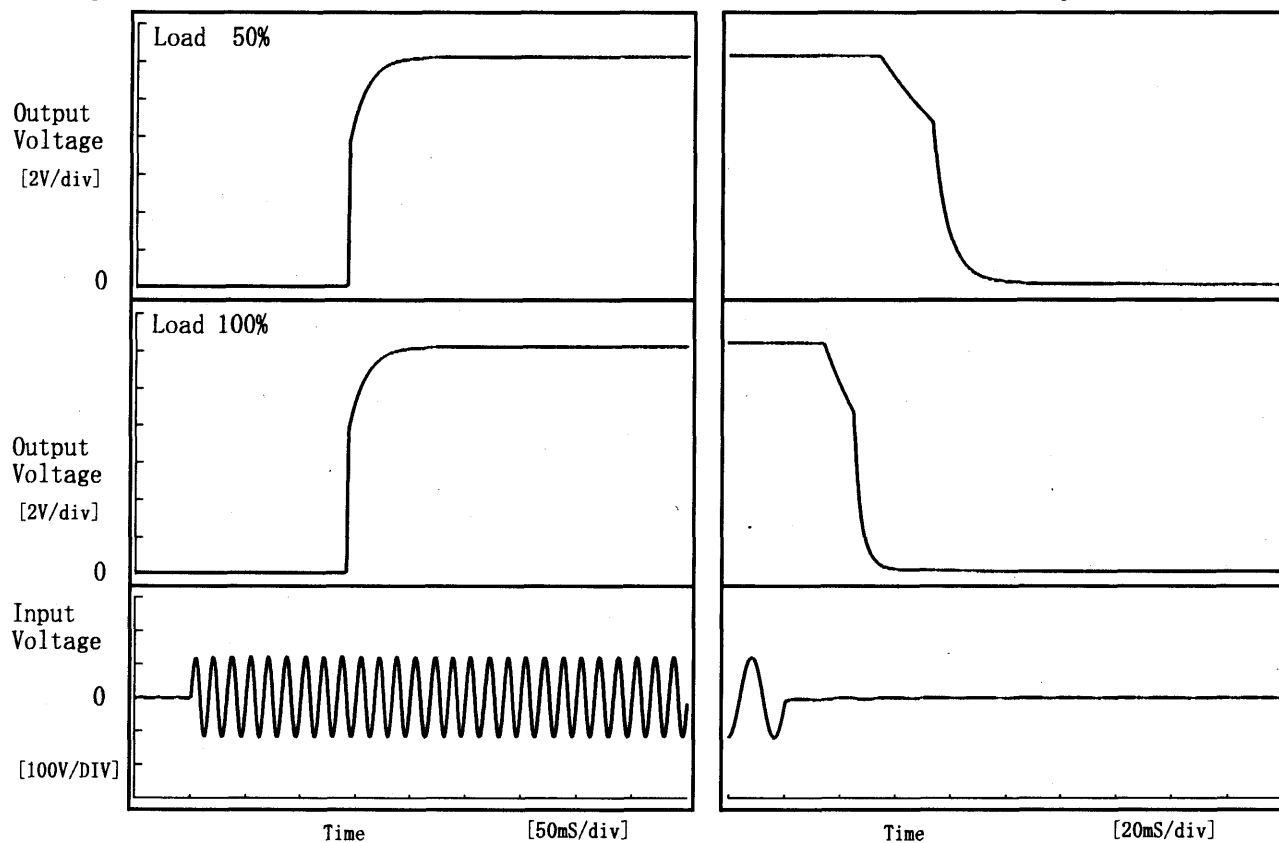


**COSEL**

Model	LCA75S-12	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12.0V6.3A		

## 1. Graph

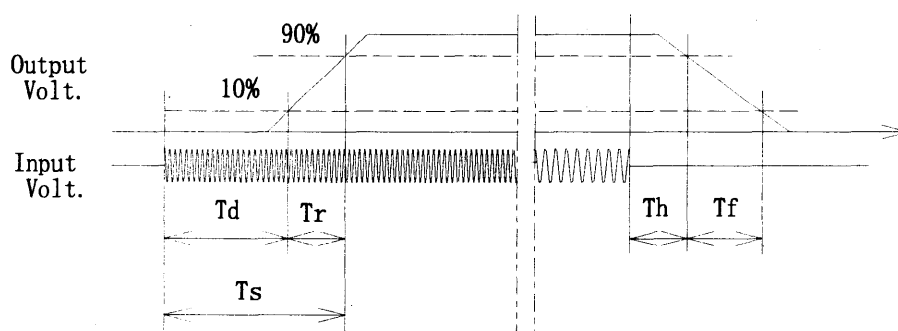
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	141.5	19.0	160.5	41.3	24.1
100 %	141.5	19.0	160.5	18.2	12.9



**COSEL**

COSEL	
Model	LCA75S-12
Item	Ambient Temperature Drift 周囲温度変動
Object	+12.0V6.3A

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Output Voltage [V]

BC-4055

**COSEL**

Model		LCA75S-12	
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	
Object		+12.0V 6.3A	

1. Graph

□ Load 50%

△ Load 100%

[mV]

Ripple Voltage

Ambient Temperature [°C]

Input Volt. 100 V

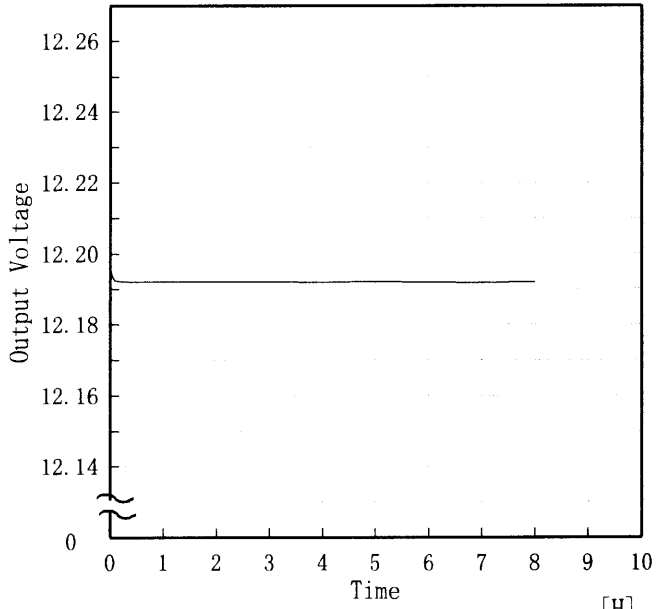
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	45	50
-10	35	40
0	30	30
10	30	30
20	25	25
25	25	25
30	25	25
40	20	25
50	20	20
60	20	20
—	—	—

**COSEL**

COSEL																									
Model	LCA75S-12																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
Object	+12.0V6.3A	Testing Circuitry	Figure A																						
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage</div> <div>Time [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>12.197</td></tr><tr><td>0.5</td><td>12.192</td></tr><tr><td>1.0</td><td>12.192</td></tr><tr><td>2.0</td><td>12.192</td></tr><tr><td>3.0</td><td>12.192</td></tr><tr><td>4.0</td><td>12.192</td></tr><tr><td>5.0</td><td>12.192</td></tr><tr><td>6.0</td><td>12.192</td></tr><tr><td>7.0</td><td>12.192</td></tr><tr><td>8.0</td><td>12.192</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	12.197	0.5	12.192	1.0	12.192	2.0	12.192	3.0	12.192	4.0	12.192	5.0	12.192	6.0	12.192	7.0	12.192	8.0	12.192
Time since start [H]	Output Voltage [V]																								
0.0	12.197																								
0.5	12.192																								
1.0	12.192																								
2.0	12.192																								
3.0	12.192																								
4.0	12.192																								
5.0	12.192																								
6.0	12.192																								
7.0	12.192																								
8.0	12.192																								

# COSEL

Model		LCA75S-12
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+12.0V6.3A	

## 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 : 0~6.3 A

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

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

## 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 : 0~6.3 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) =  $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

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	12.203	±16	±0.2
Minimum Voltage	50	132	6.3	12.171		



# COSEL

Model	LCA75S-12	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	_____		

## 1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.17	0.19	0.25
(B) IEC60950	0.17	0.21	0.25

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	—	—	—

## 2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力 の両相について測定し、その大きい方を漏洩電流測定値とする。



**COSEL**

Model	LCA75S-12		
Item	Line Noise Tolerance 入力雑音耐量	Temperature	25°C
		Testing Circuitry	Figure C
Object	+12.0V 6.3A		

## 1. Results

Pulse Width [ nS ]	MODE	No protection failure should occur 保護回路の誤動作がない	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation
1000	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation

## 2. Conditions

Input Voltage : 100 V  
 Pulse Voltage : 2000 V  
 Pulse Cycle : 10 mS  
 Pulse Input Duration : 1 min. or more  
 Load : 100 %

**COSEL**

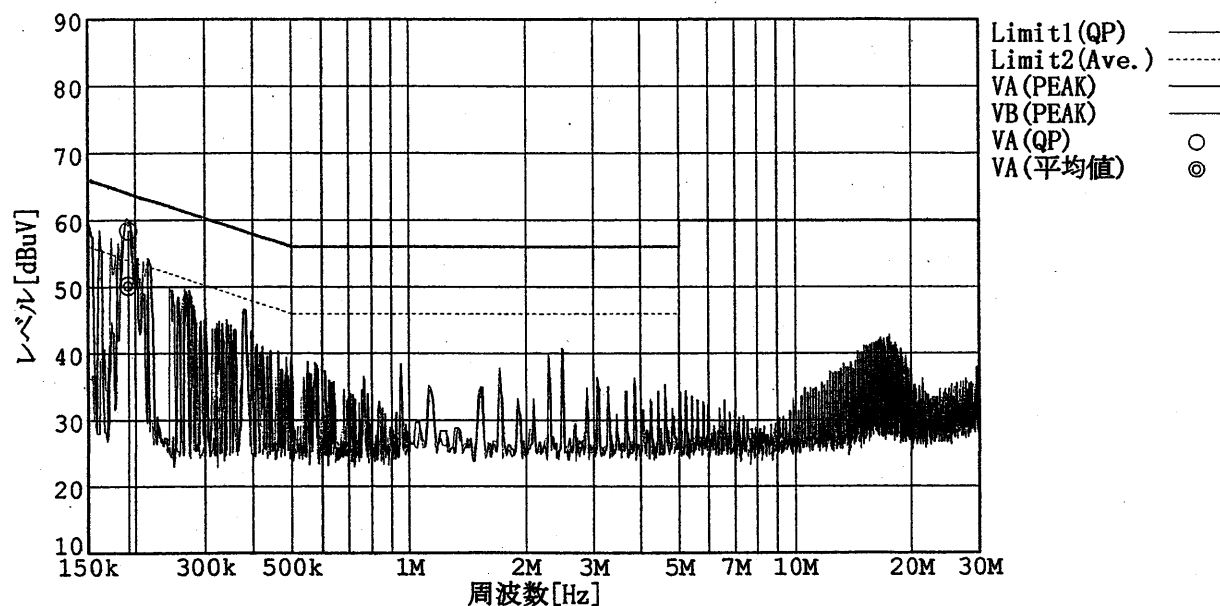
Model	LCA75S-12	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object	_____		

## 1. Graph

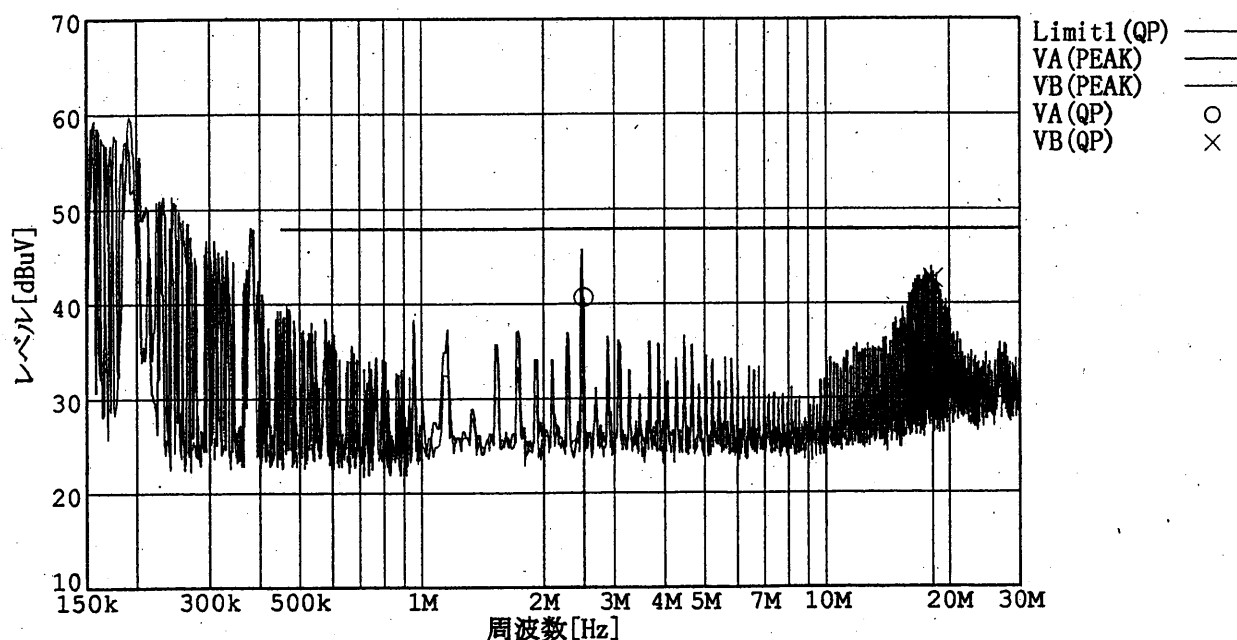
## Remarks

Input Volt. 100 V (VCCI Class B)  
120 V (FCC Class B)  
Load 100 %

規格 1: [VCCI] Class B(QP)  
規格 2: [VCCI] Class B(平均値)



規格 1: [FCC Part15] Class B



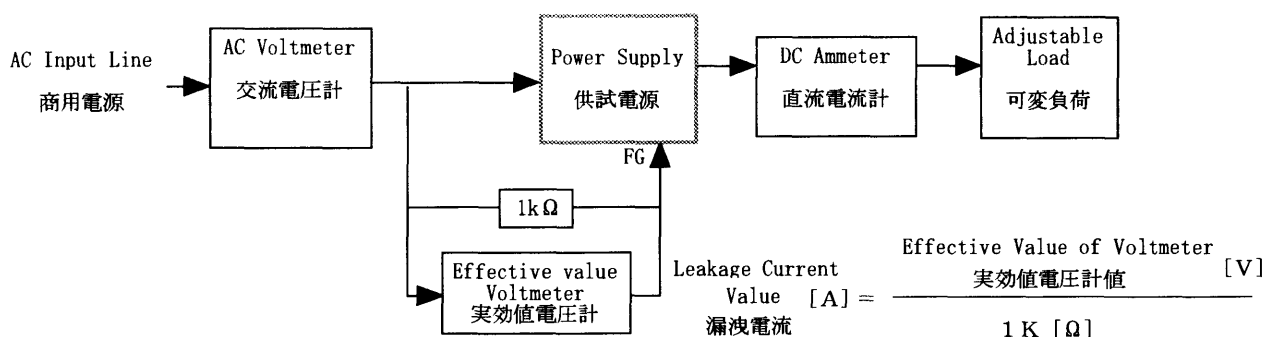
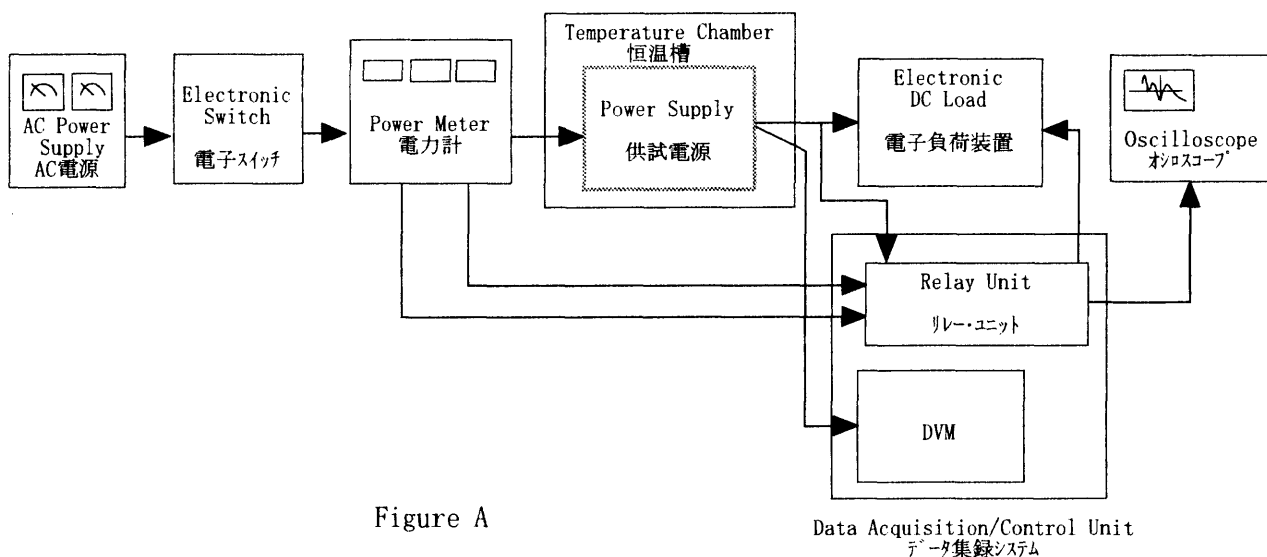


Figure B (DENTORI)

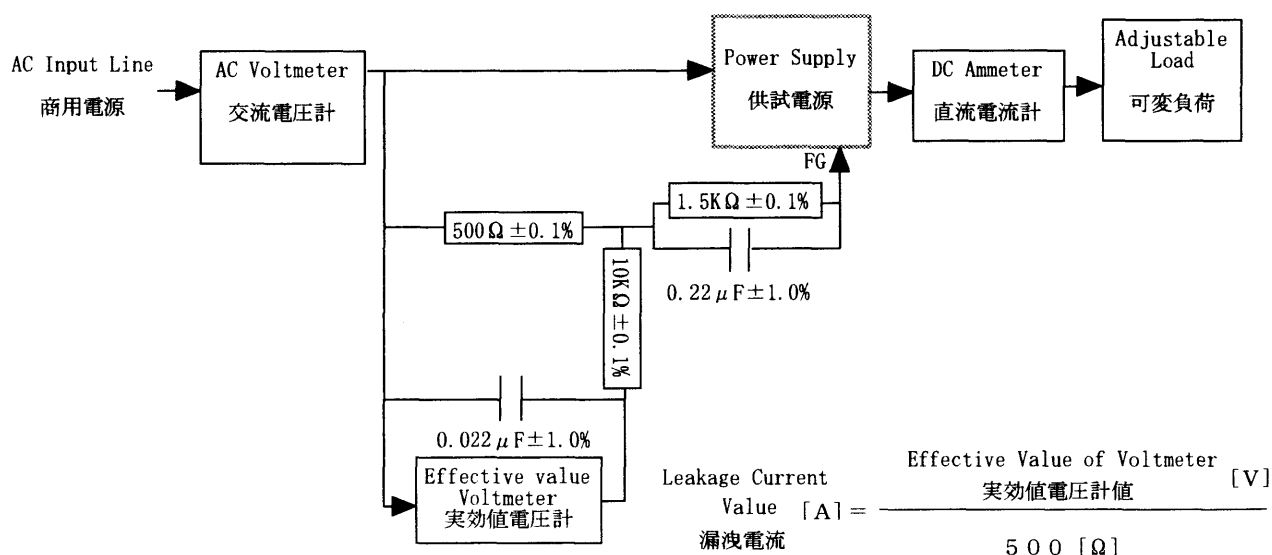


Figure B (IEC 60950)

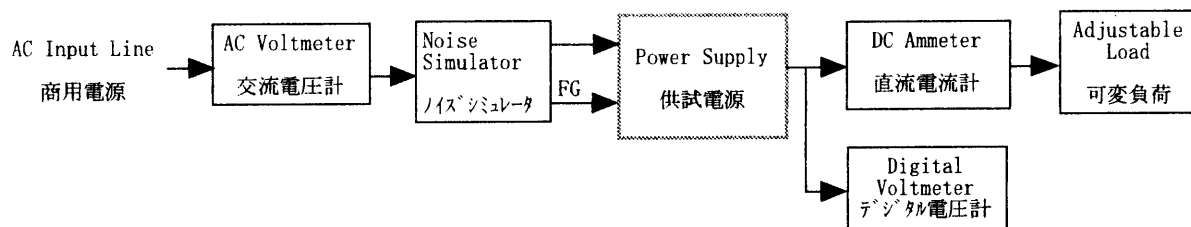


Figure C

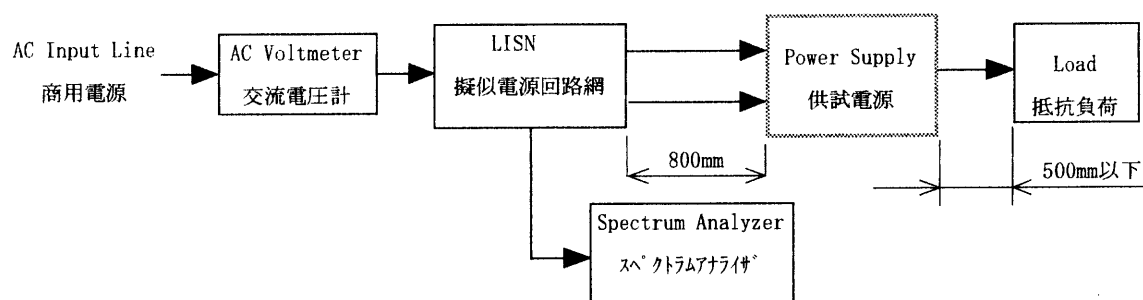


Figure D

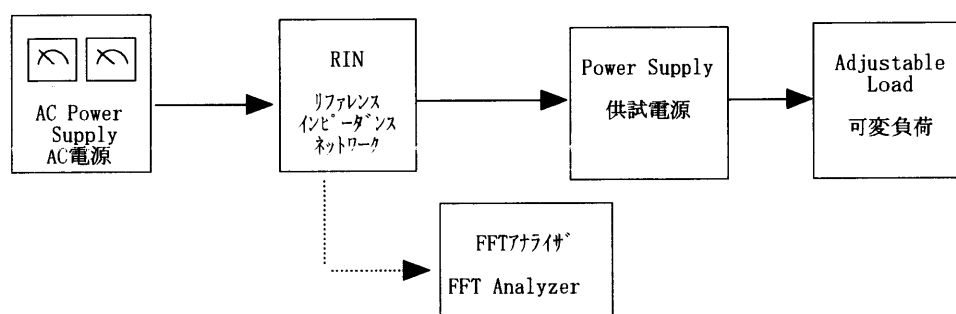


Figure E