



# TEST DATA OF LCA15S-15

(100V INPUT)

Regulated DC Power Supply

Date : June 17. 1999

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Design Manager

Prepared by : S. Taniguchi  
Design Engineer

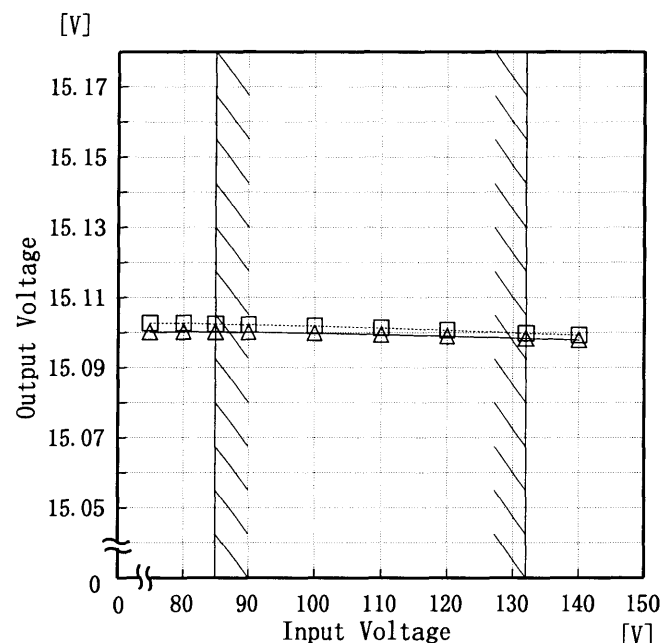
**コーセル株式会社**  
**COSEL CO., LTD.**

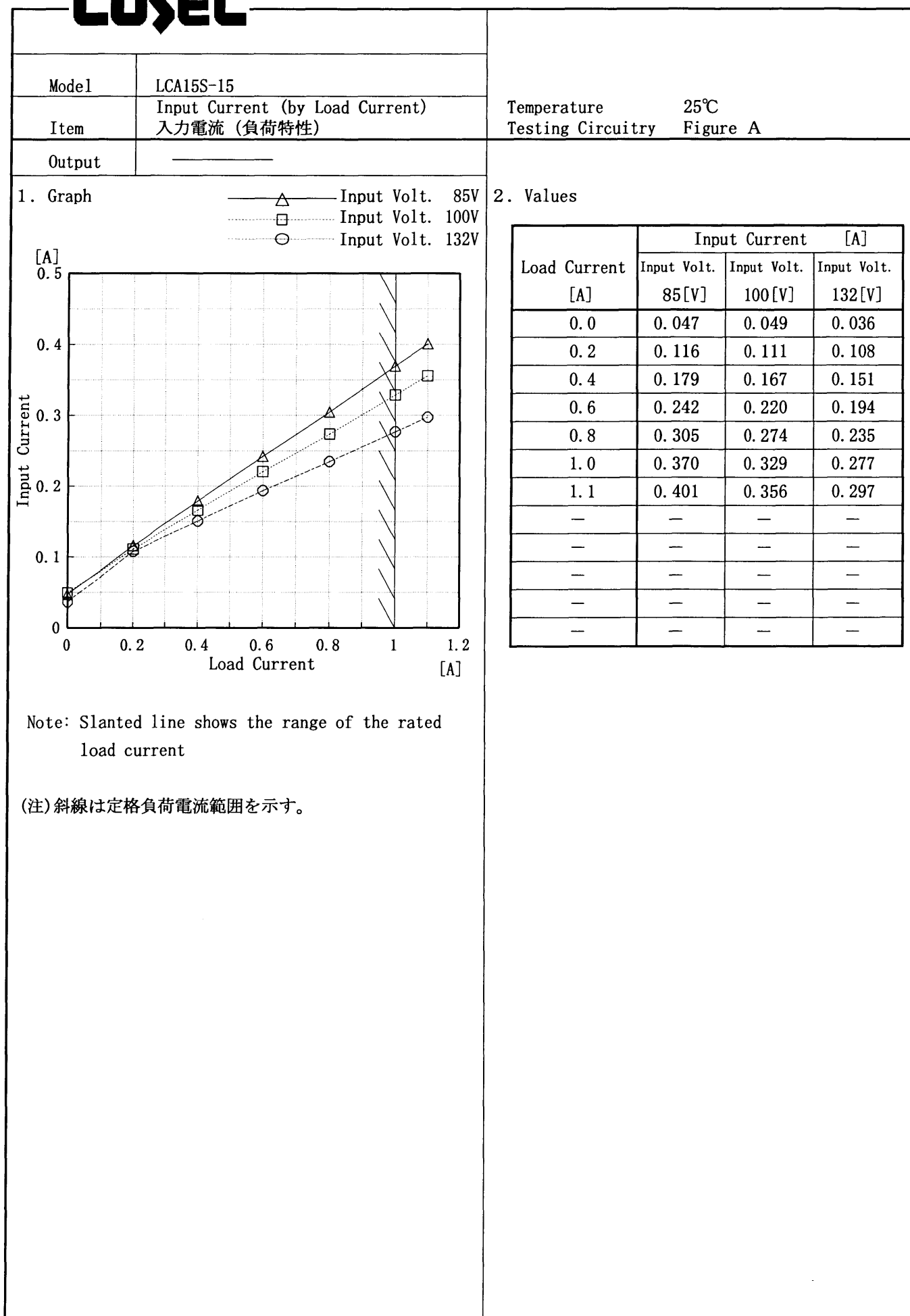
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Model LCA15S-15		Temperature 25°C Testing Circuitry Figure A																																
Item	Line Regulation 静的入力変動																																	
Object	+15.0V1A																																	
<p>1. Graph</p> <p>-----□----- Load 50%          -----△----- Load 100%</p>  <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>		<p>2. Values</p> <table border="1"> <thead> <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> </thead> <tbody> <tr><td>75</td><td>15.103</td><td>15.100</td></tr> <tr><td>80</td><td>15.103</td><td>15.100</td></tr> <tr><td>85</td><td>15.103</td><td>15.100</td></tr> <tr><td>90</td><td>15.102</td><td>15.100</td></tr> <tr><td>100</td><td>15.102</td><td>15.100</td></tr> <tr><td>110</td><td>15.101</td><td>15.100</td></tr> <tr><td>120</td><td>15.101</td><td>15.099</td></tr> <tr><td>132</td><td>15.100</td><td>15.098</td></tr> <tr><td>140</td><td>15.099</td><td>15.098</td></tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	15.103	15.100	80	15.103	15.100	85	15.103	15.100	90	15.102	15.100	100	15.102	15.100	110	15.101	15.100	120	15.101	15.099	132	15.100	15.098	140	15.099	15.098
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Model	LCA15S-15	Temperature	25°C
Item	Input Power (by Load Current) 入力電力 (負荷特性)	Testing Circuitry	Figure A
Output	_____		

1. Graph

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

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
0.0	1.79	2.15	1.89
0.2	5.35	5.80	7.00
0.4	8.83	9.25	10.30
0.6	12.39	12.70	13.69
0.8	16.02	16.20	17.01
1.0	19.87	19.90	20.50
1.1	21.73	21.69	22.17
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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。

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Model		LCA15S-15	
Item		Efficiency 効率	
Object			

1. Graph

□

Load 50%

△

Load 100%

Efficiency [%]

86

82

78

74

70

66

62

0

0

80

90

100

110

120

130

140

150

Input Voltage [V]

0

80

90

100

110

120

130

140

150

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	73.0	75.7
80	72.4	76.4
85	71.9	76.6
90	71.0	76.6
100	69.4	76.4
110	67.6	76.0
120	65.7	75.3
132	63.2	74.2
140	61.8	73.4

# COSEL

Model		LCA15S-15	
Item		Efficiency (by Load Current) 効率 (負荷電流特性)	
Output		—	

1. Graph

—△— Input Volt. 85V

- - - □ - - - Input Volt. 100V

- - - ○ - - - Input Volt. 132V

Efficiency [%]

Load Current [A]	85V [%]	100V [%]	132V [%]
0.2	56.9	52.4	43.6
0.4	68.6	65.7	59.1
0.6	73.6	72.0	66.7
0.8	75.6	74.8	71.3
1.0	76.4	76.3	74.1
1.1	76.6	76.8	75.1
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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

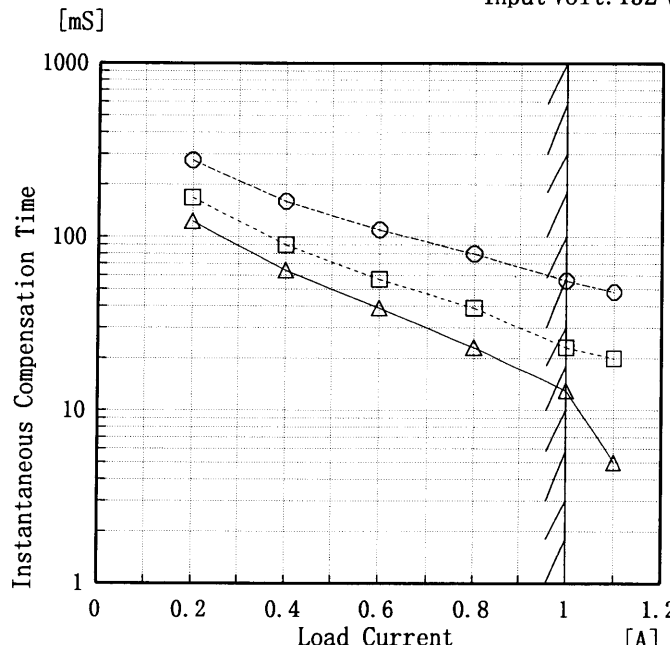
Load Current [A]	Efficiency [%]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
0.2	56.9	52.4	43.6
0.4	68.6	65.7	59.1
0.6	73.6	72.0	66.7
0.8	75.6	74.8	71.3
1.0	76.4	76.3	74.1
1.1	76.6	76.8	75.1
—	—	—	—
—	—	—	—
—	—	—	—
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—	—	—	—
—	—	—	—

# COSEL

Model		LCA15S-15		Temperature		25℃																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A																																	
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<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div>Hold-Up Time [mS]</div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div><div><div>Input Voltage [V]</div></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>42</td><td>16</td></tr><tr><td>80</td><td>48</td><td>19</td></tr><tr><td>85</td><td>55</td><td>23</td></tr><tr><td>90</td><td>62</td><td>27</td></tr><tr><td>100</td><td>77</td><td>35</td></tr><tr><td>110</td><td>93</td><td>44</td></tr><tr><td>120</td><td>111</td><td>55</td></tr><tr><td>132</td><td>134</td><td>68</td></tr><tr><td>140</td><td>150</td><td>78</td></tr></table>				Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	42	16	80	48	19	85	55	23	90	62	27	100	77	35	110	93	44	120	111	55	132	134	68	140	150	78
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Model		LCA15S-15		Temperature		25℃																																																				
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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>Instantaneous Compensation Time</div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>0.2</div><div>0.4</div><div>0.6</div><div>0.8</div><div>1</div><div>1.2</div></div><div><div>Load Current</div><div>[A]</div></div></div>  <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>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.2</td><td>123</td><td>168</td><td>276</td></tr><tr><td>0.4</td><td>64</td><td>90</td><td>160</td></tr><tr><td>0.6</td><td>39</td><td>57</td><td>110</td></tr><tr><td>0.8</td><td>23</td><td>39</td><td>80</td></tr><tr><td>1.0</td><td>13</td><td>23</td><td>56</td></tr><tr><td>1.1</td><td>5</td><td>20</td><td>48</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]	Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	—	—	—	0.2	123	168	276	0.4	64	90	160	0.6	39	57	110	0.8	23	39	80	1.0	13	23	56	1.1	5	20	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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BC-4032

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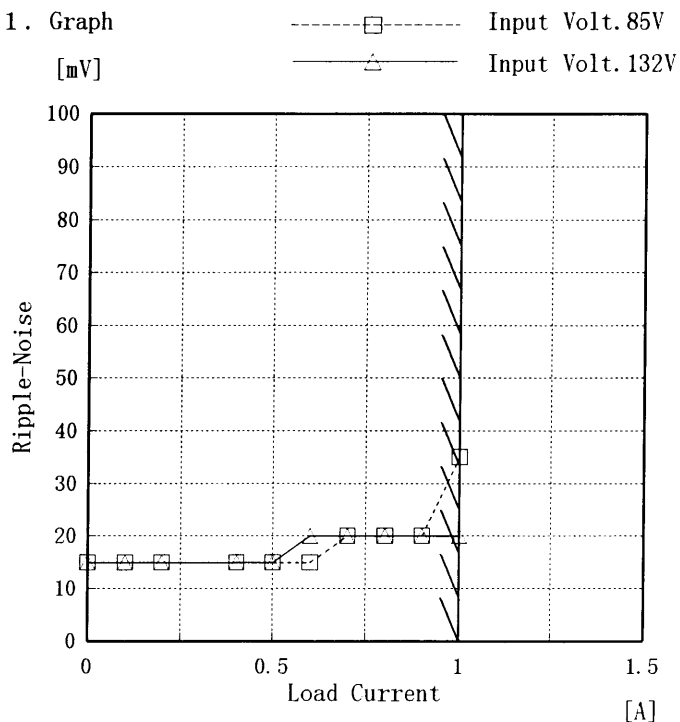
Model LCA15S-15

Item Ripple-Noise リップルノイズ

Object +15.0V1A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



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。

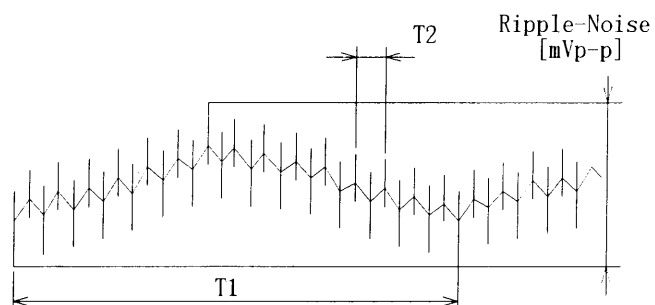
T1: Due to AC Input Line  
入力商用周期T2: Due to Switching  
スイッチング周期

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

## 2. Values

Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.00	15	15
0.10	15	15
0.20	15	15
0.40	15	15
0.50	15	15
0.60	15	20
0.70	20	20
0.80	20	20
0.90	20	20
1.00	35	20
1.10	—	—

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Model

LCA15S-15

Item

Overcurrent Protection  
過電流保護

Object

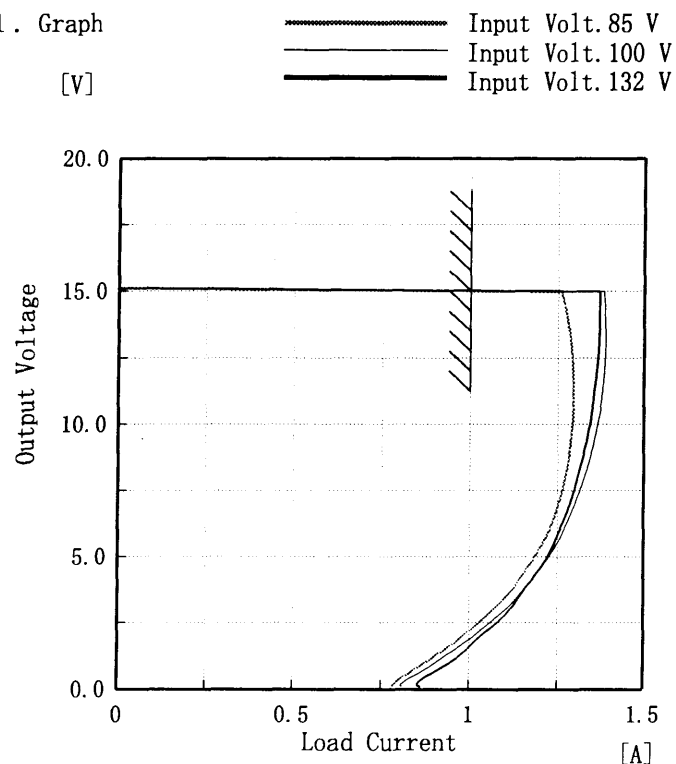
+15.0V1A

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

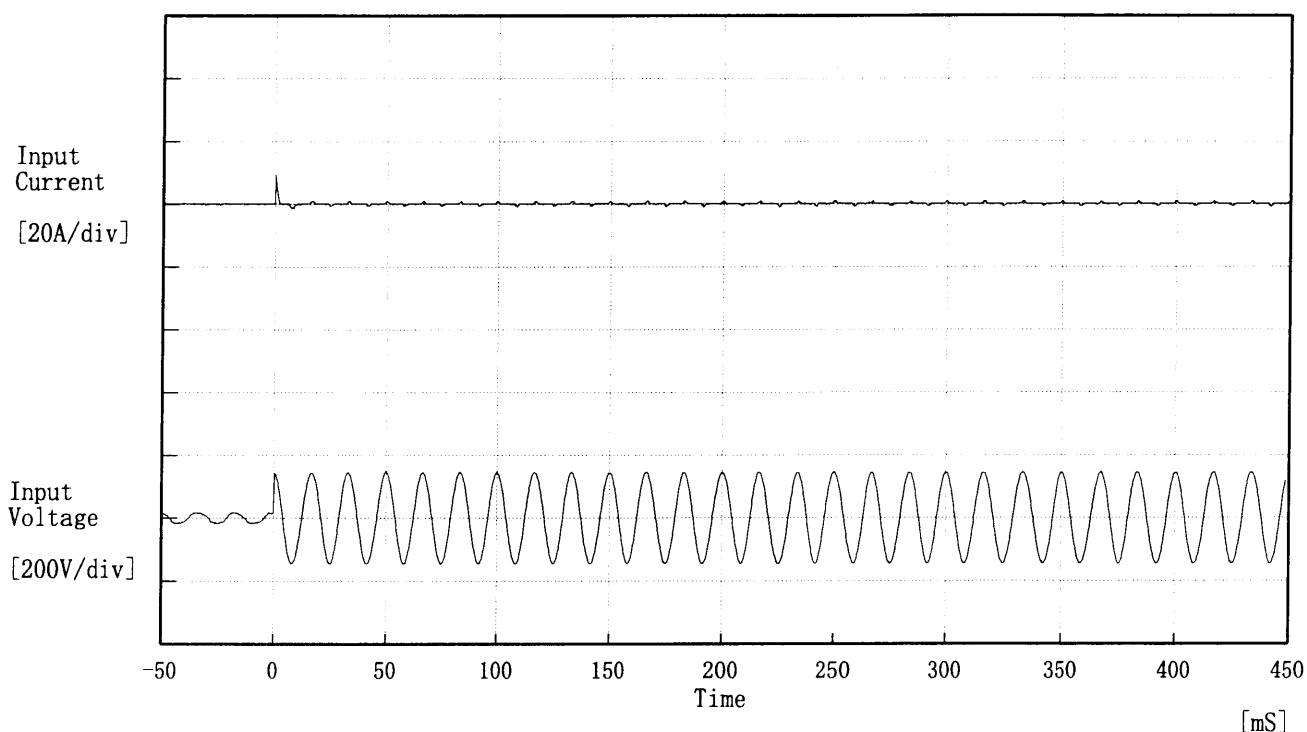
Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
15.00	1.26	1.38	1.37
14.25	1.27	1.39	1.37
13.50	1.28	1.39	1.37
12.00	1.30	1.38	1.36
10.50	1.30	1.37	1.35
9.00	1.29	1.35	1.33
7.50	1.26	1.32	1.30
6.00	1.23	1.27	1.26
4.50	1.16	1.20	1.20
3.00	1.08	1.11	1.12
1.50	0.93	0.96	0.99
0.00	0.78	0.81	0.86

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Model LCA15S-15

Item Inrush Current 突入電流

Object

Temperature 25℃  
Testing Circuitry Figure A

Input Voltage 100 V

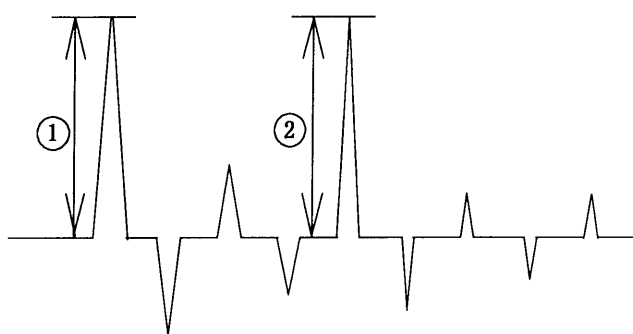
Frequency 60 Hz

Load 100 %

Inrush Current

① 8.96 [A]

② 1.04 [A]



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Model	LCA15S-15	Temperature 25℃ Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+15.0V1A	

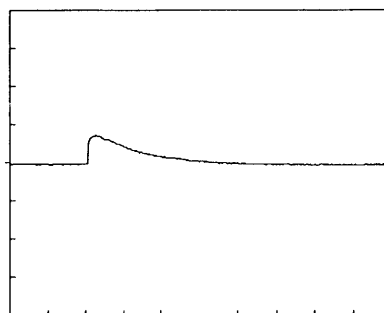
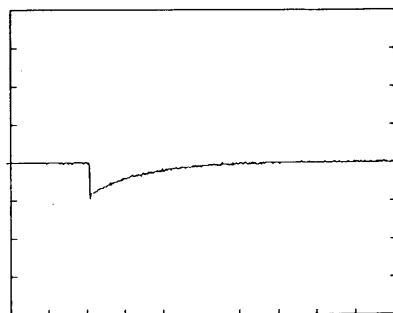
Input Volt. 100 V

Cycle 1000 mS

Load Current

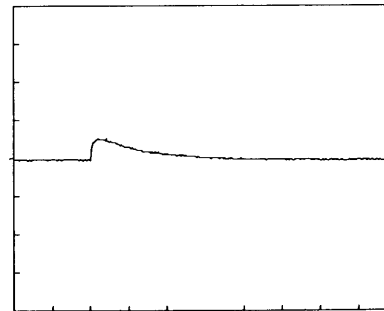
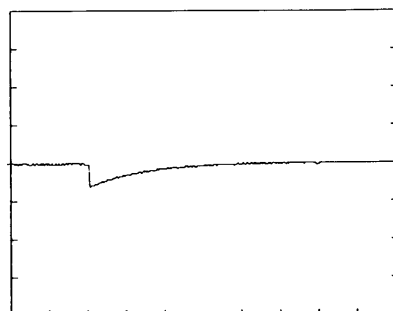
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



200 mV/div

10 mS/div

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Model

LCA15S-15

Item

Rise and Fall Time 立上り、立下り時間

Temperature

25°C

Testing Circuitry

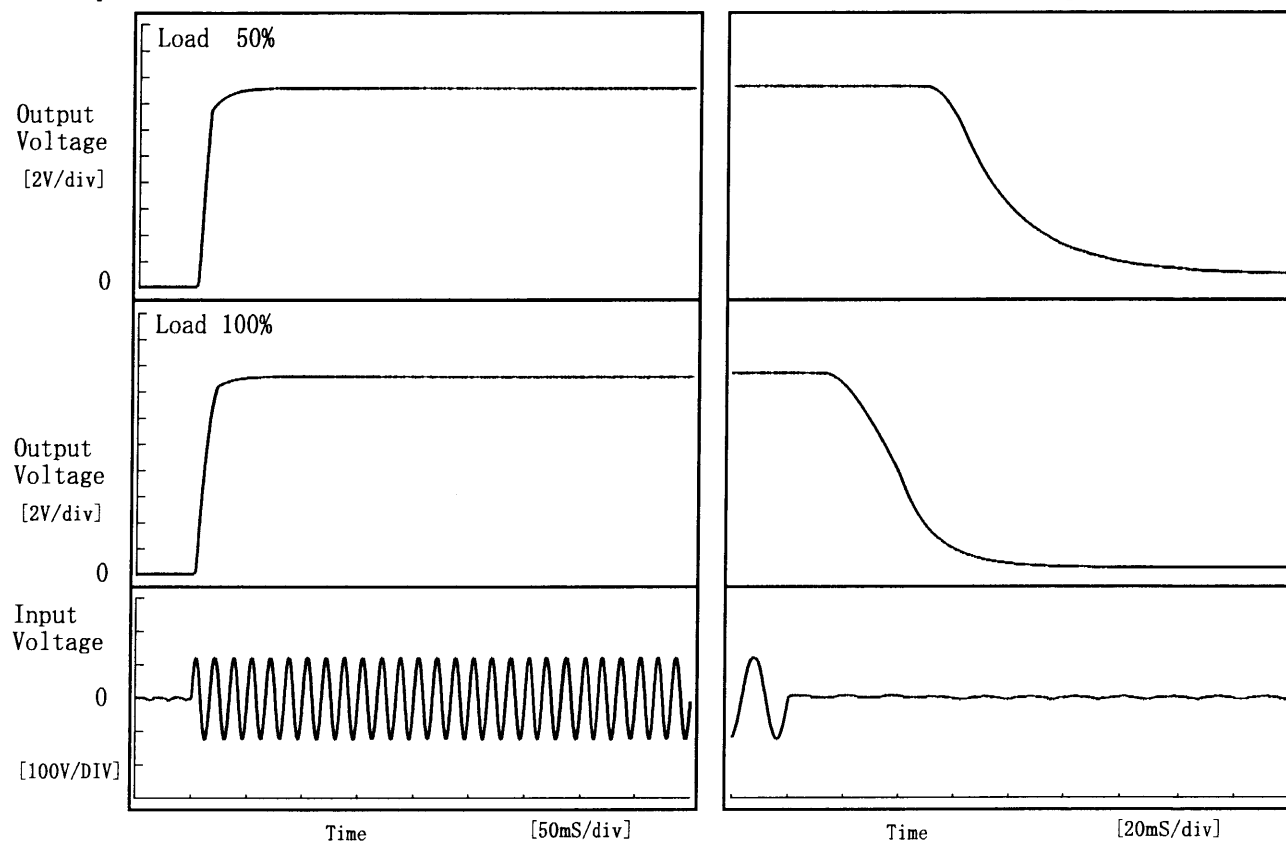
Figure A

Object

+15.0V1A

## 1. Graph

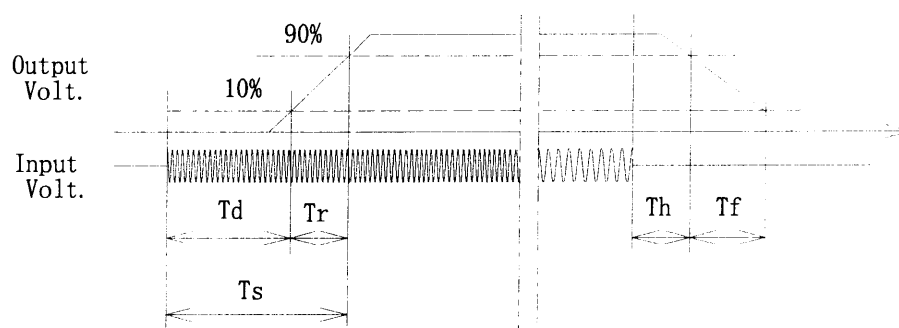
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	4.3	10.8	15.0	58.6	74.0
100 %	4.3	14.8	19.0	23.9	41.0





**COSEL**

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**COSEL**

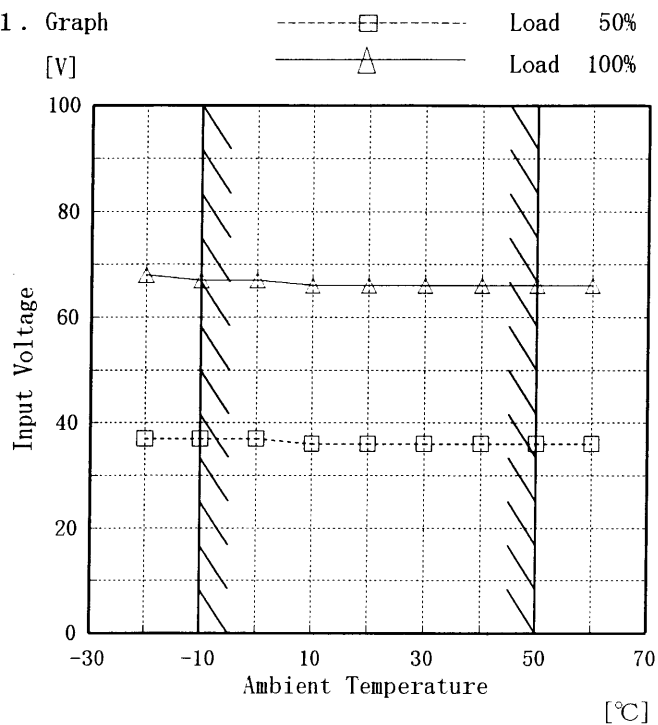
Model LCA15S-15

Item Minimum Input Voltage for Regulated Output Voltage  
最低レギュレーション電圧

Object +15.0V1A

Testing Circuitry Figure A

## 1. Graph



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]	Input Voltage [V]	
	Load 50%	Load 100%
-20	37	68
-10	37	67
0	37	67
10	36	66
20	36	66
30	36	66
40	36	66
50	36	66
60	36	66
—	—	—
—	—	—

# COSEL

Model LCA15S-15

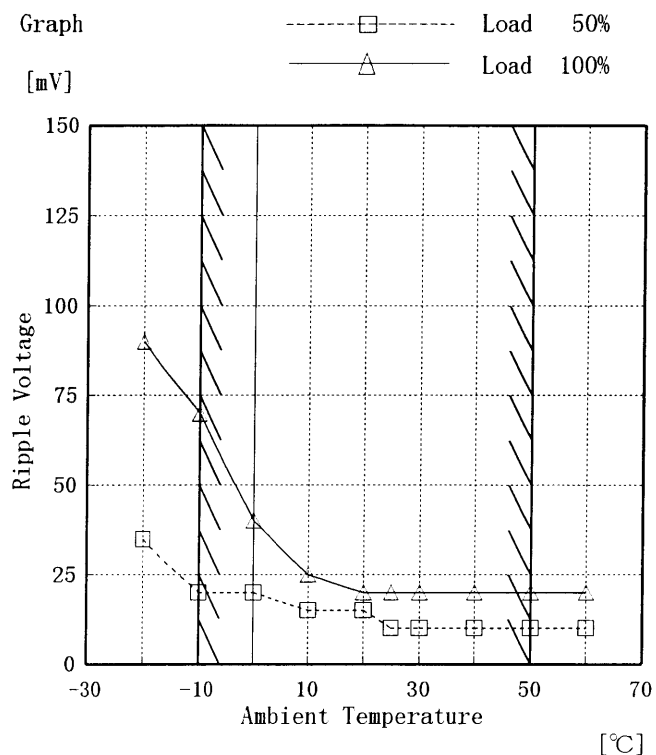
Item Ripple Voltage (by Ambient Temp.)  
リップル電圧 (周囲温度特性)

Object +15.0V1A

Testing Circuitry Figure A

## 1. Graph

[mV]



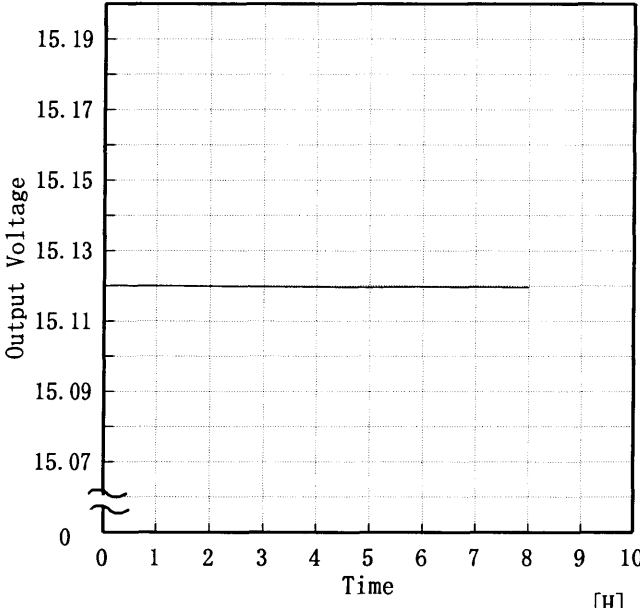
Note: Slanted line shows the range of the rated ambient temperature.

(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	35	90
-10	20	70
0	20	40
10	15	25
20	15	20
25	10	20
30	10	20
40	10	20
50	10	20
60	10	20
—	—	—

**COSEL**

COSEL																									
Model	LCA15S-15	Temperature25℃ Testing CircuitryFigure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	+15.0V1A																								
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>Load100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.121</td></tr><tr><td>0.5</td><td>15.120</td></tr><tr><td>1.0</td><td>15.120</td></tr><tr><td>2.0</td><td>15.120</td></tr><tr><td>3.0</td><td>15.120</td></tr><tr><td>4.0</td><td>15.120</td></tr><tr><td>5.0</td><td>15.120</td></tr><tr><td>6.0</td><td>15.120</td></tr><tr><td>7.0</td><td>15.120</td></tr><tr><td>8.0</td><td>15.120</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.121	0.5	15.120	1.0	15.120	2.0	15.120	3.0	15.120	4.0	15.120	5.0	15.120	6.0	15.120	7.0	15.120	8.0	15.120
Time since start [H]	Output Voltage [V]																								
0.0	15.121																								
0.5	15.120																								
1.0	15.120																								
2.0	15.120																								
3.0	15.120																								
4.0	15.120																								
5.0	15.120																								
6.0	15.120																								
7.0	15.120																								
8.0	15.120																								

Model		LCA15S-15	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+15.0V1A	

#### 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 : 0~1 A

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

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

#### 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 0~1 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) =  $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	50	85	1	15.110	±10	±0.1
Minimum Voltage	-10	132	1	15.091		



**COSEL**

LUSEL					
Model	LCA15S-15			Temperature Testing Circuitry	25℃ Figure B
Item	Leakage Current 漏洩電流				
Object	_____				
1. Results					
Standards	Leakage Current [mA]				
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]		
	(A) DENTORI	0.08	0.08	0.11	
	(B) IEC60950	0.08	0.09	0.12	
2. Condition					
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.					
交流入力 of 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。					
Standards	Leakage Current [mA]				
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]		
	(B) IEC60950	—	—	—	

**COSEL**

LCA15S-15		Temperature Testing Circuitry	
Model	LCA15S-15		
Item	Line Noise Tolerance 入力雑音耐量		
Object	+15.0V1A		

## 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	LCA15S-15	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

## 1. Graph

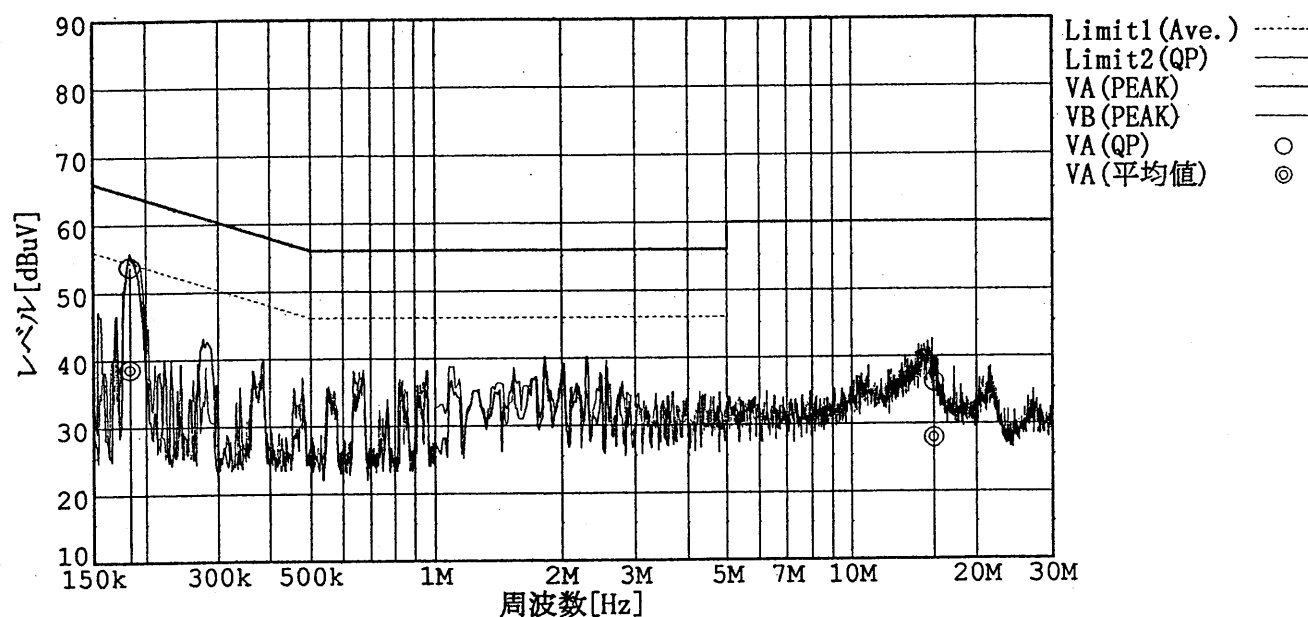
## Remarks

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

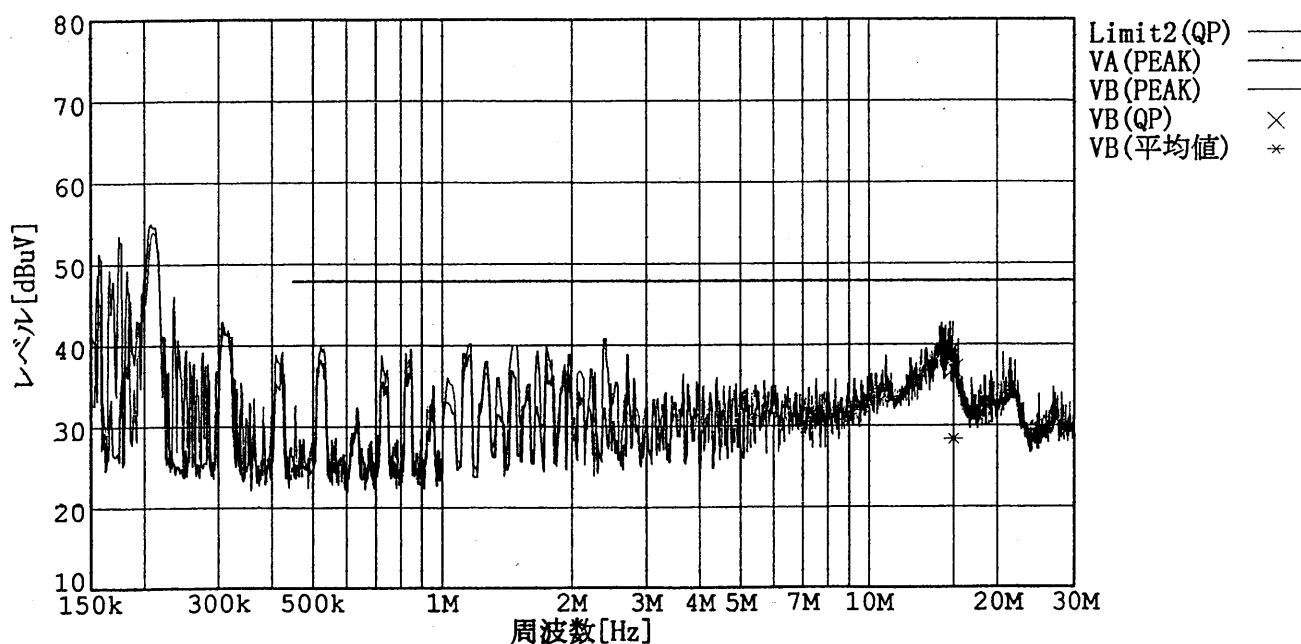
Load 100 %

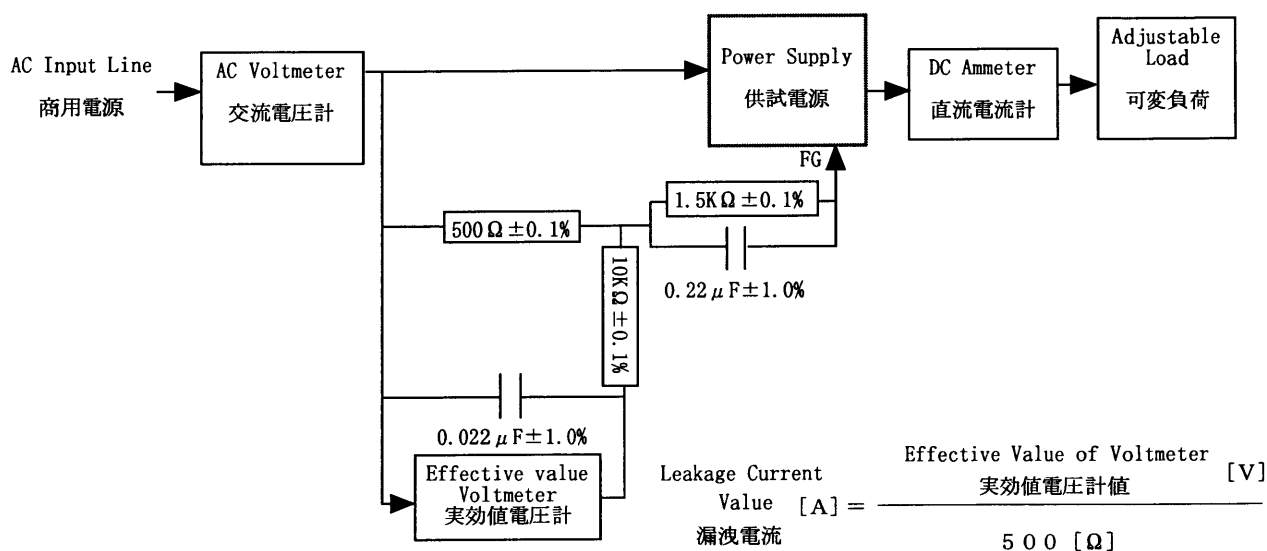
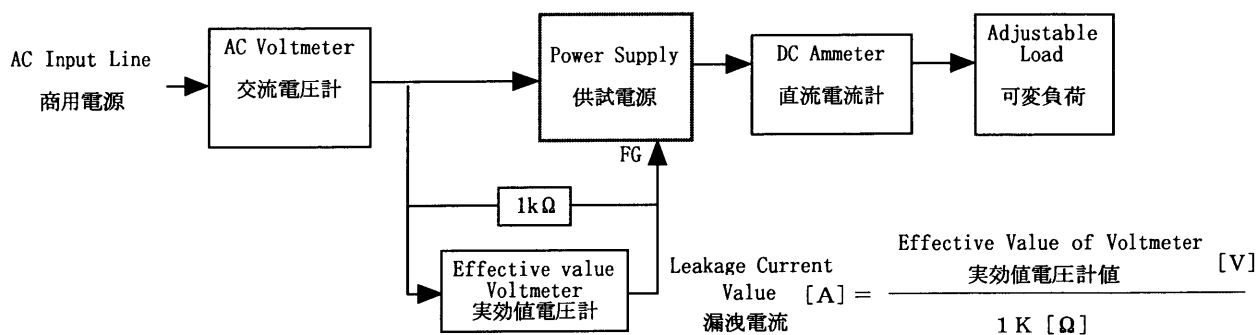
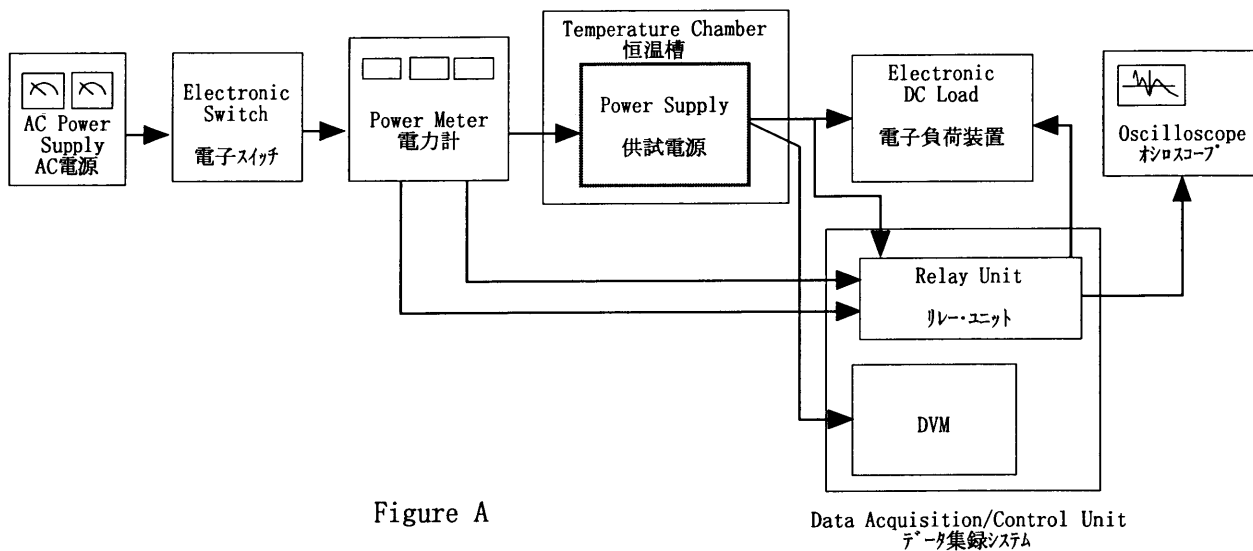
規格 1: [VCCI] Class B(平均値)

規格 2: [VCCI] Class B(QP)



規格 2: [FCC Part15] Class B





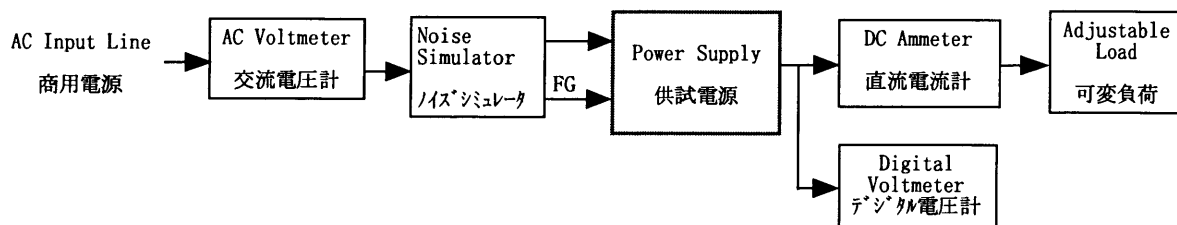


Figure C

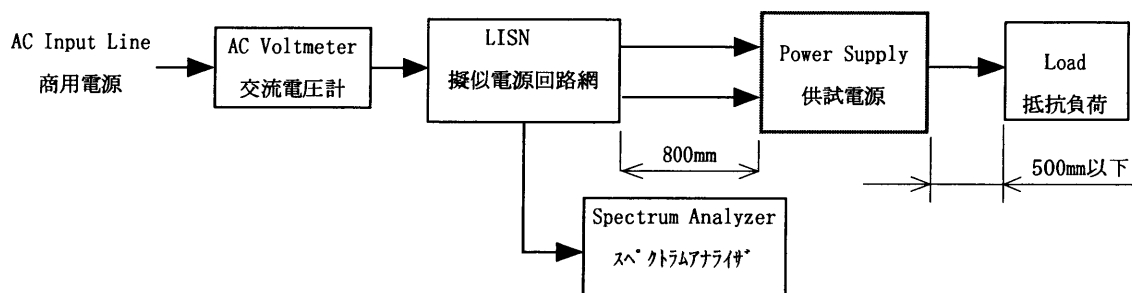


Figure D

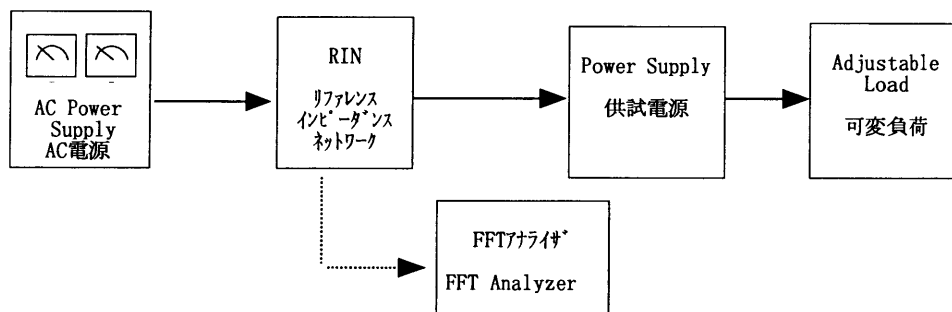


Figure E