



TEST DATA OF LCA100S-24 (100V INPUT)

Regulated DC Power Supply

Date : Aug. 25. 1999

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Design Engineer

コーセル株式会社
COSEL CO., LTD.

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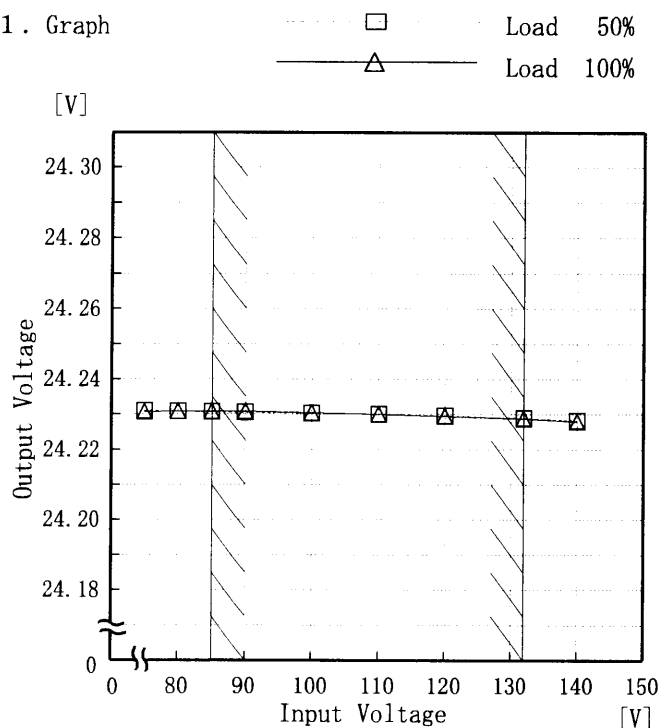
Model LCA100S-24

Item Line Regulation 静的入力変動

Object +24.0V4.3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



(注) 斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	24.231	24.231
80	24.231	24.231
85	24.231	24.231
90	24.231	24.231
100	24.230	24.230
110	24.230	24.230
120	24.230	24.230
132	24.229	24.229
140	24.228	24.228

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Model		LCA100S-24		Temperature		25℃																																																					
Item		Input Current (by Load Current) 入力電流 (負荷特性)		Testing Circuitry		Figure A																																																					
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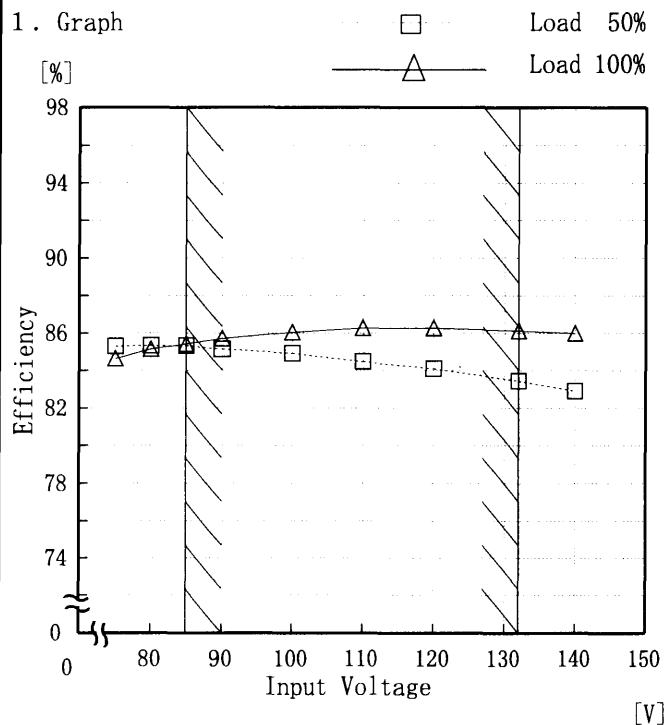
Model LCA100S-24

Item Efficiency 効率

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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	85.3	84.7
80	85.3	85.2
85	85.3	85.4
90	85.2	85.7
100	84.9	86.1
110	84.5	86.3
120	84.1	86.3
132	83.5	86.1
140	82.9	86.0

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Model		LCA100S-24		Temperature		25℃																																																								
Item		Efficiency (by Load Current) 効率（負荷電流特性）		Testing Circuitry		Figure A																																																								
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Model LCA100S-24		Temperature 25°C Testing Circuitry Figure A																																
Item	Hold-Up Time 出力保持時間																																	
Object	+24.0V4.3A																																	
<p>1. Graph</p> <p>□ Load 50% △ Load 100%</p> <p>Hold-Up Time [mS]</p> <p>Input Voltage [V]</p> <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>		<p>2. Values</p> <table border="1"> <thead> <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> </thead> <tbody> <tr><td>75</td><td>17</td><td>6</td></tr> <tr><td>80</td><td>23</td><td>10</td></tr> <tr><td>85</td><td>30</td><td>13</td></tr> <tr><td>90</td><td>37</td><td>17</td></tr> <tr><td>100</td><td>52</td><td>25</td></tr> <tr><td>110</td><td>70</td><td>34</td></tr> <tr><td>120</td><td>89</td><td>44</td></tr> <tr><td>132</td><td>115</td><td>57</td></tr> <tr><td>140</td><td>133</td><td>67</td></tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	17	6	80	23	10	85	30	13	90	37	17	100	52	25	110	70	34	120	89	44	132	115	57	140	133	67
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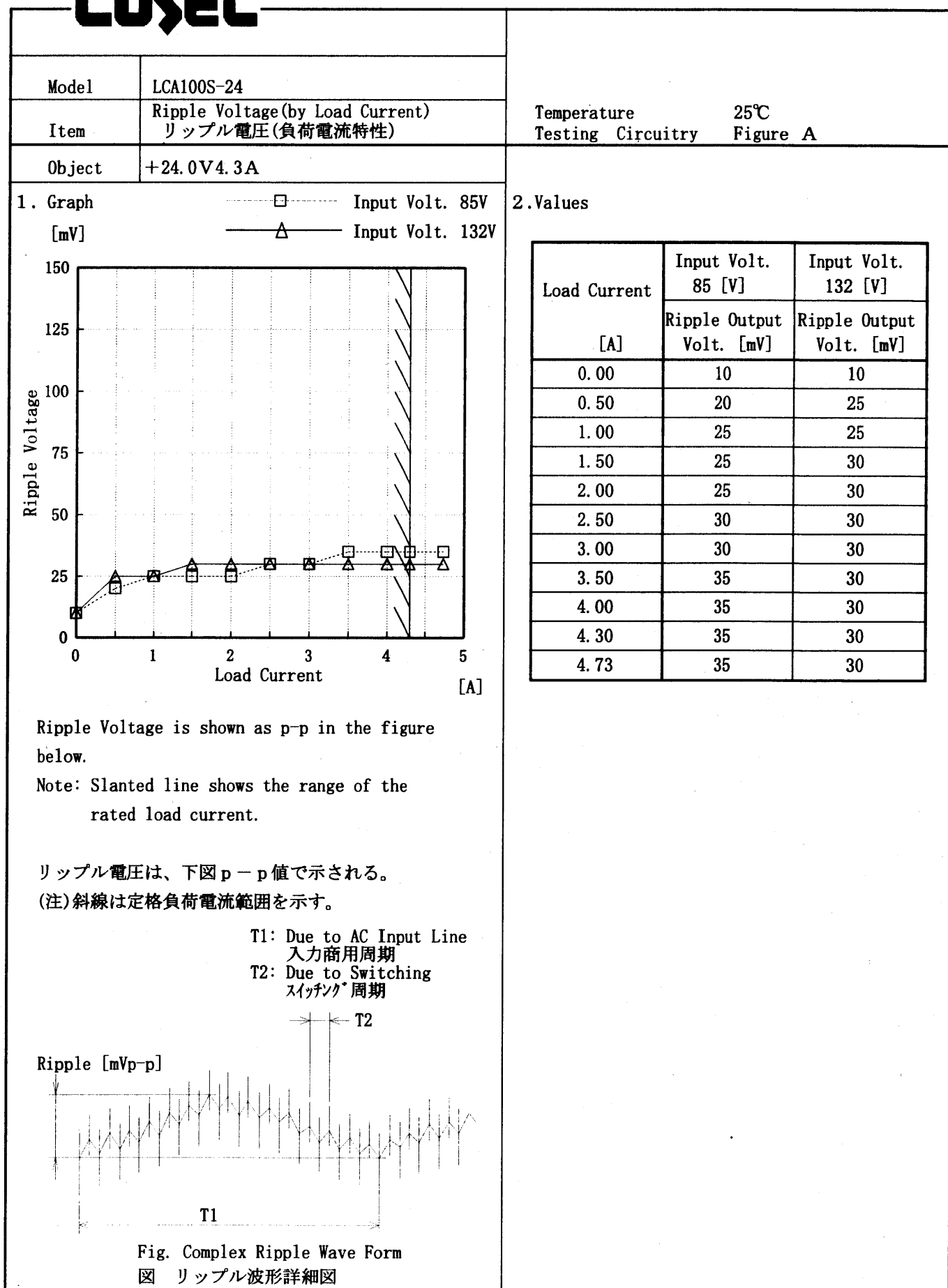
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Model		LCA100S-24		Temperature		25℃	
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A	
Object		+24.0V4.3A					
1. Graph				2. Values			

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Model		LCA100S-24	
Item		Ripple-Noise リップルノイズ	
Object		+24.0V4.3A	
1. Graph		2. Values	

□

Input Volt. 85V

△

Input Volt. 132V

200

180

160

140

120

100

80

60

40

20

0

Ripple-Noise

[mV]

0

1

2

3

4

5

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

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Model LCA100S-24

Item Overcurrent Protection
過電流保護

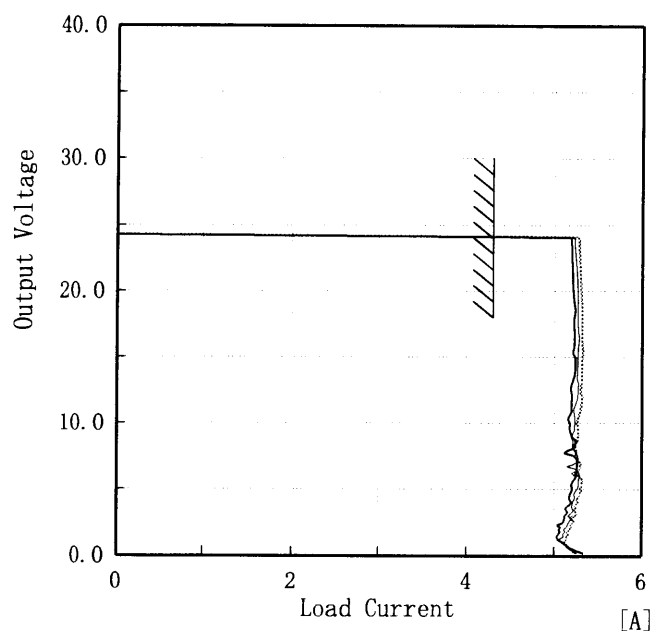
Object +24.0V4.3A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

[V]

----- Input Volt. 85 V
 ----- Input Volt. 100 V
 ----- Input Volt. 132 V



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]
24.00	5.29	5.23	5.19
22.80	5.29	5.24	5.20
21.60	5.30	5.26	5.21
19.20	5.32	5.27	5.23
16.80	5.32	5.28	5.23
14.40	5.32	5.28	5.24
12.00	5.32	5.27	5.21
9.60	5.28	5.24	5.18
7.20	5.27	5.27	5.26
4.80	5.32	5.26	5.21
2.40	5.23	5.17	5.11
0.00	5.26	5.27	5.35

COSEL

Model		LCA100S-24	
Item		Overvoltage Protection 過電圧保護	
Object		+24.0V4.3A	

1. Graph

—△—

Input Volt. 85 V

—□—

Input Volt. 100 V

—○—

Input Volt. 132 V

Operating Point [V]

34.52

33.52

32.52

31.52

30.52

29.52

28.52

0

Ambient Temperature [°C]

-30

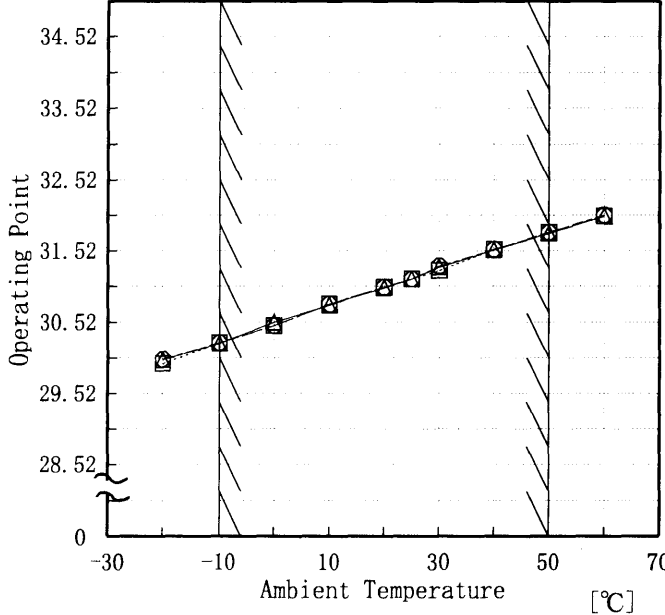
-10

10

30

50

70



Load 0%

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

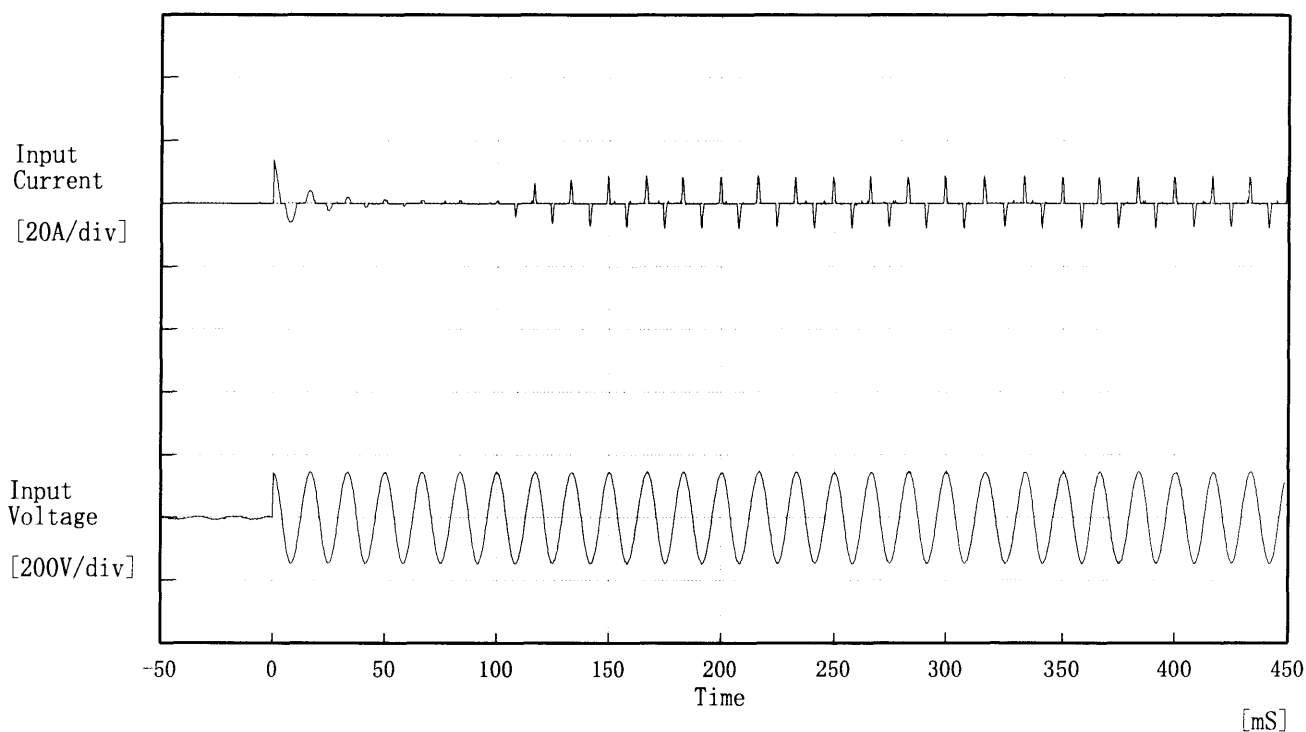
(注)斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	29.99	29.94	30.00
-10	30.22	30.23	30.23
0	30.52	30.47	30.47
10	30.76	30.77	30.77
20	31.00	31.01	31.01
25	31.12	31.12	31.12
30	31.29	31.24	31.30
40	31.53	31.54	31.54
50	31.77	31.78	31.78
60	32.01	32.01	32.02
—	—	—	—

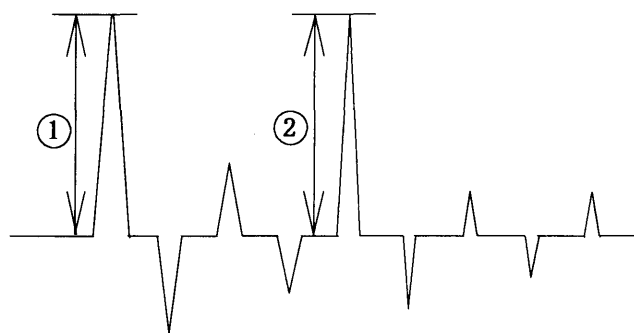
COSEL

Model	LCA100S-24	Temperature 25℃ Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 100 V
Frequency 60 Hz
Load 100 %
Inrush Current

- ① 13.58 [A]
② 8.78 [A]



COSEL

Model	LCA100S-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+24.0V4.3A	

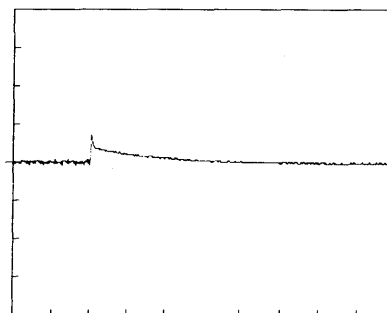
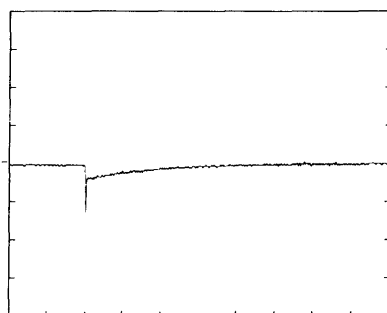
Input Volt. 100 V

Cycle 1000 mS

Load Current

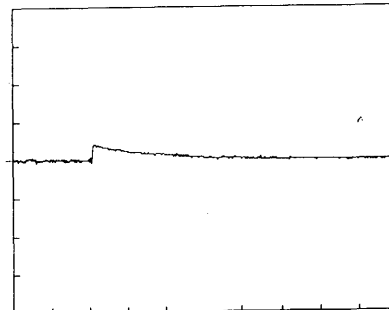
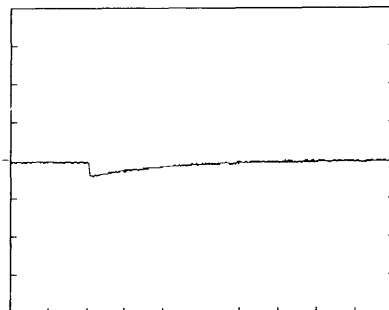
Load 0% ←→

Load 100 %



Load 0% ←→

Load 50 %



100 mV/div

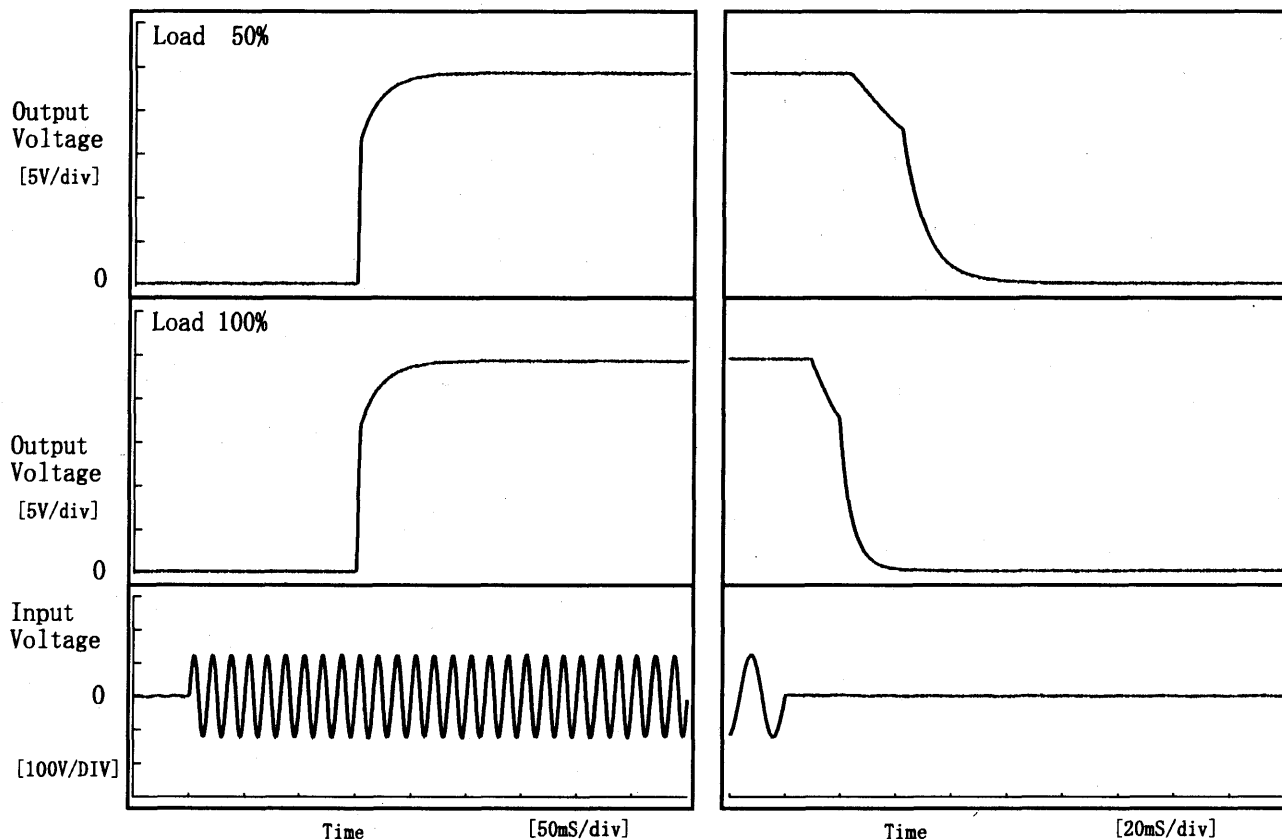
10 mS/div

COSEL

Model	LCA100S-24	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24.0V4.3A		

1. Graph

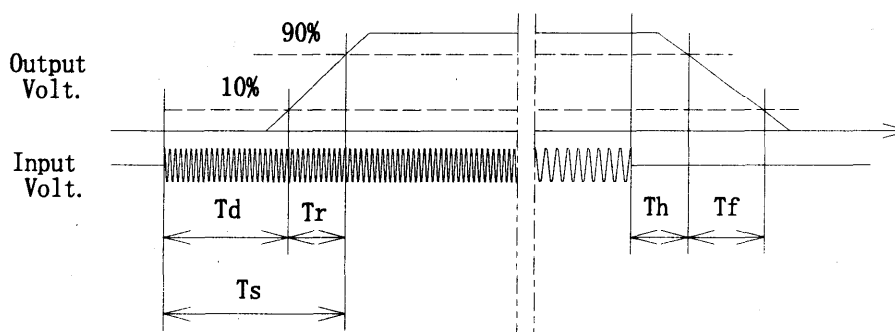
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	150.8	23.3	174.0	30.1	28.6
100 %	150.8	23.5	174.3	13.1	15.4



COSEL

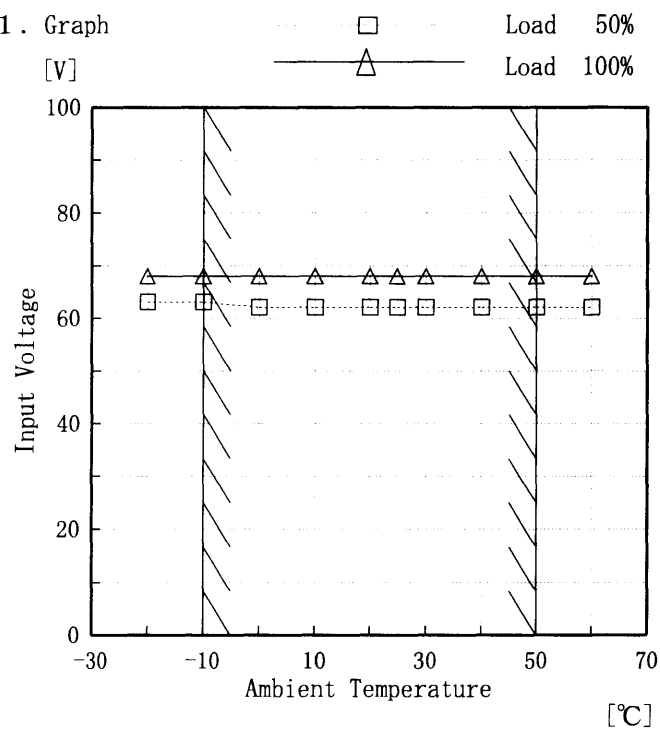
Model LCA100S-24

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

Object +24.0V4.3A

Testing Circuitry Figure A

1. Graph

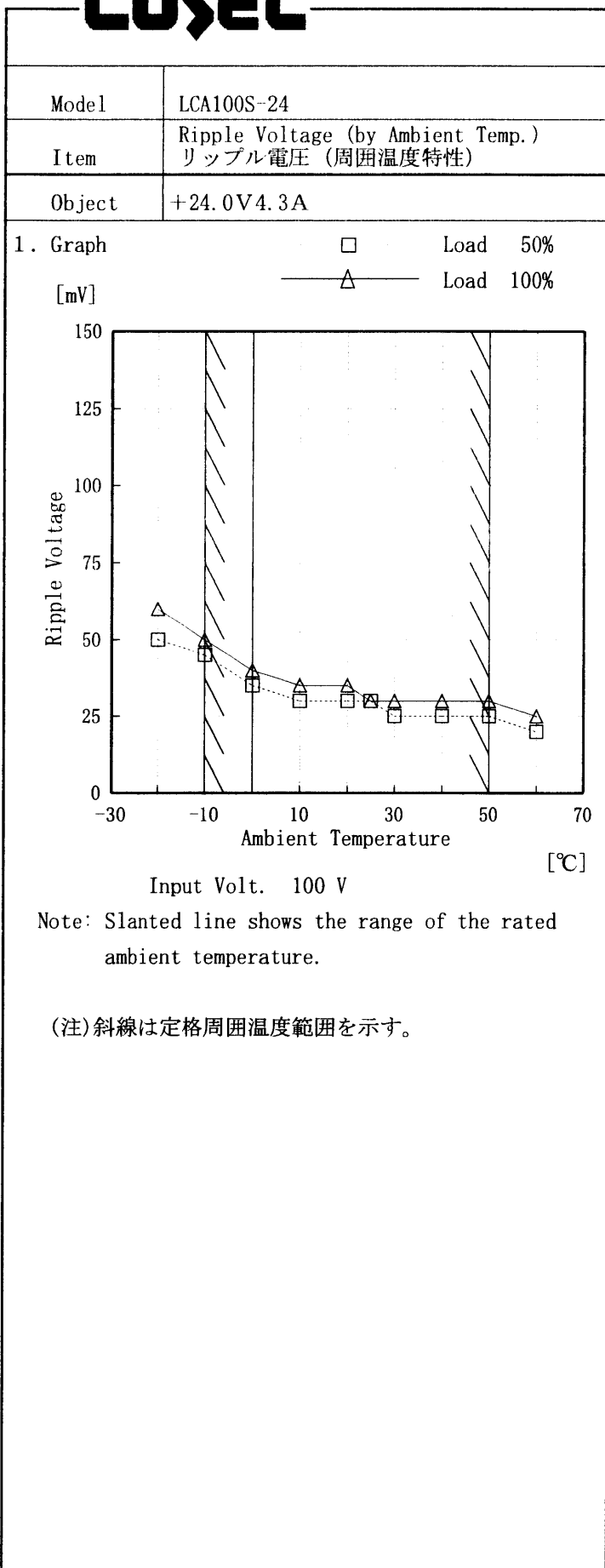


Note: Slanted line shows the range of the rated ambient temperature.

(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	63	68
-10	63	68
0	62	68
10	62	68
20	62	68
25	62	68
30	62	68
40	62	68
50	62	68
60	62	68
—	—	—

COSEL

Testing Circuitry Figure A

2. Values

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

COSEL

COSEL																									
Model	LCA100S-24	Temperature 25℃ Testing Circuitry Figure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	+24.0V4.3A																								
1. Graph		2.Values																							
<div>[V]</div> <div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>24.254</td></tr><tr><td>0.5</td><td>24.235</td></tr><tr><td>1.0</td><td>24.235</td></tr><tr><td>2.0</td><td>24.235</td></tr><tr><td>3.0</td><td>24.235</td></tr><tr><td>4.0</td><td>24.235</td></tr><tr><td>5.0</td><td>24.235</td></tr><tr><td>6.0</td><td>24.235</td></tr><tr><td>7.0</td><td>24.235</td></tr><tr><td>8.0</td><td>24.234</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	24.254	0.5	24.235	1.0	24.235	2.0	24.235	3.0	24.235	4.0	24.235	5.0	24.235	6.0	24.235	7.0	24.235	8.0	24.234
Time since start [H]	Output Voltage [V]																								
0.0	24.254																								
0.5	24.235																								
1.0	24.235																								
2.0	24.235																								
3.0	24.235																								
4.0	24.235																								
5.0	24.235																								
6.0	24.235																								
7.0	24.235																								
8.0	24.234																								

COSEL

Model		LCA100S-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24.0V 4.3A	

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 : 0~4.3 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 0~4.3 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	85	0.0	24.303	±66	±0.3
Minimum Voltage	50	132	4.3	24.172		

COSEL

Model	LCA100S-24	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	0.19	0.22	0.31
(B) IEC60950	0.20	0.23	0.33

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 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。

COSEL

Model		LCA100S-24	Temperature Testing Circuitry	25°C Figure C
Item		Line Noise Tolerance 入力雑音耐量		
Object		+24.0V 4.3A		

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	LCA100S-24	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

1. Graph

Remarks

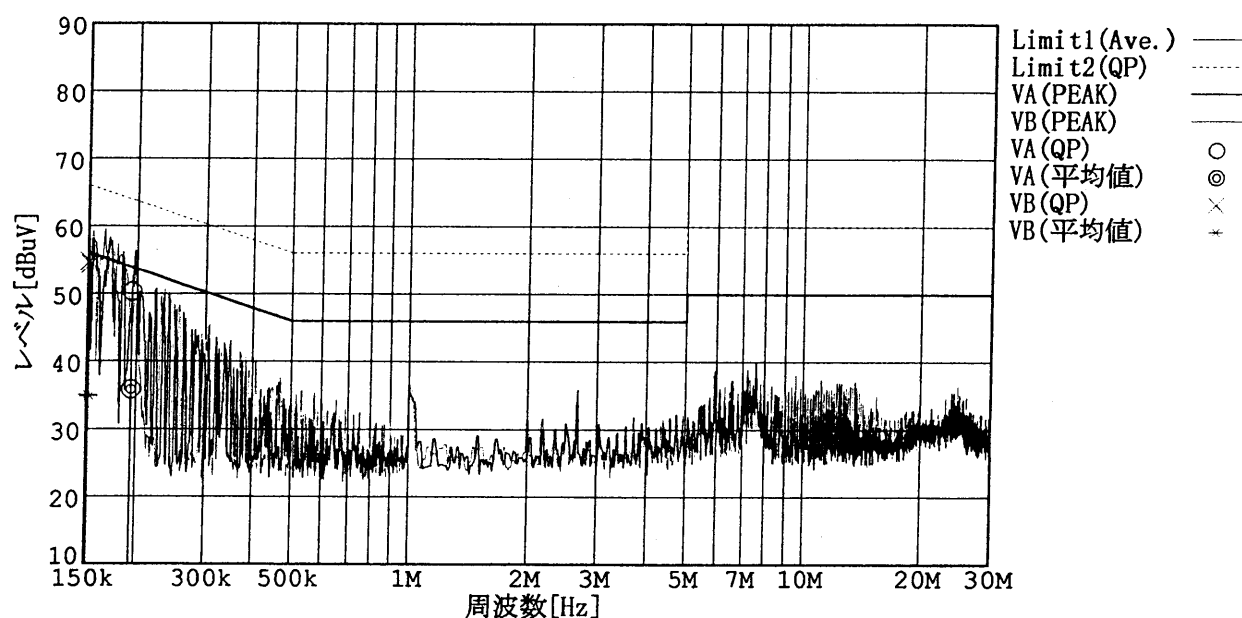
Input Volt. 100 V (VCCI Class B)

120 V (FCC Class B)

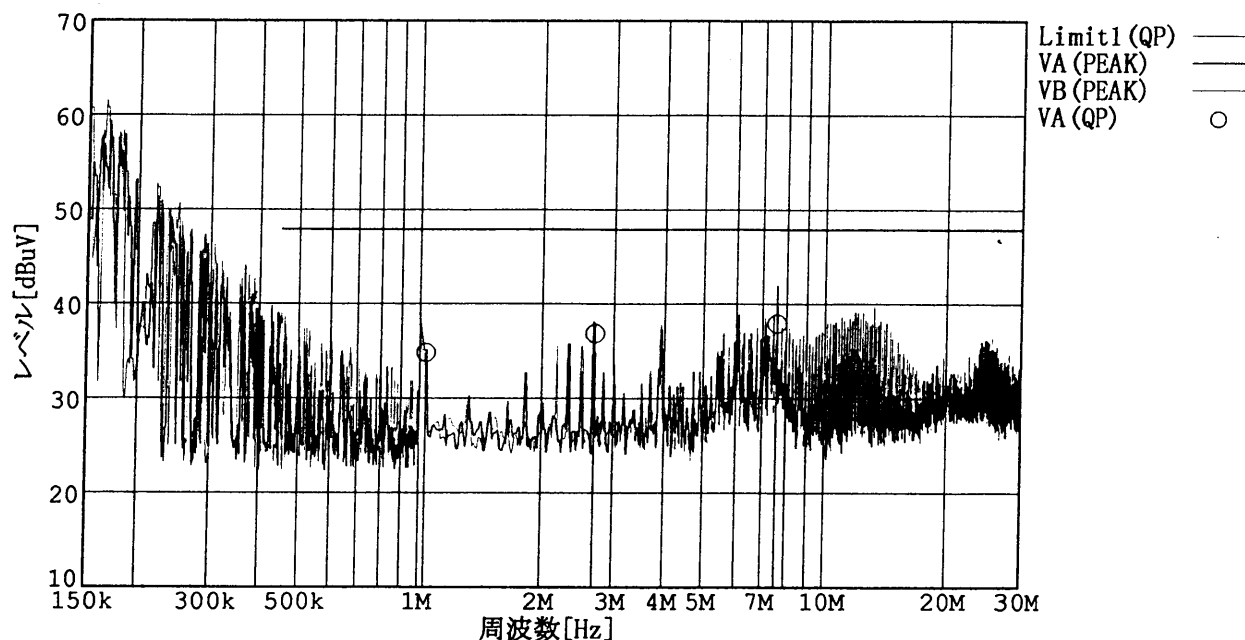
Load 100 %

規格 1: [VCCI] Class B(平均値)

規格 2: [VCCI] Class B(QP)



規格 1: [FCC Part15] Class B



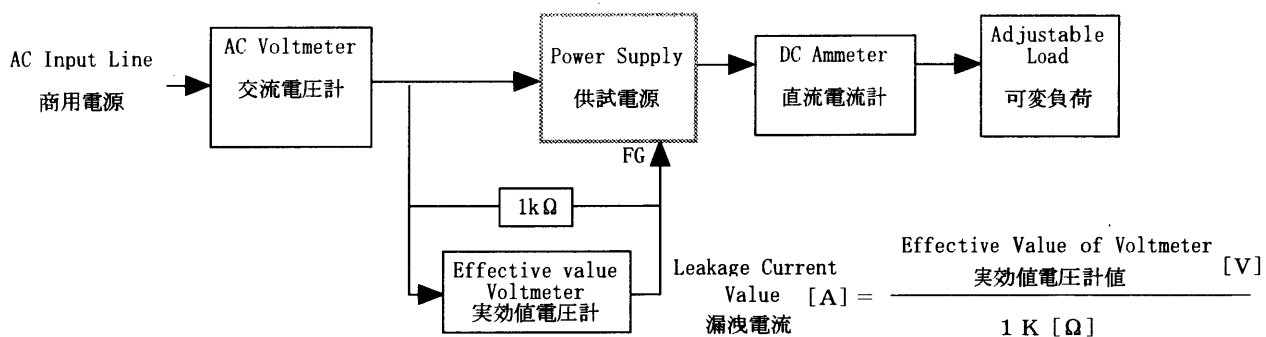
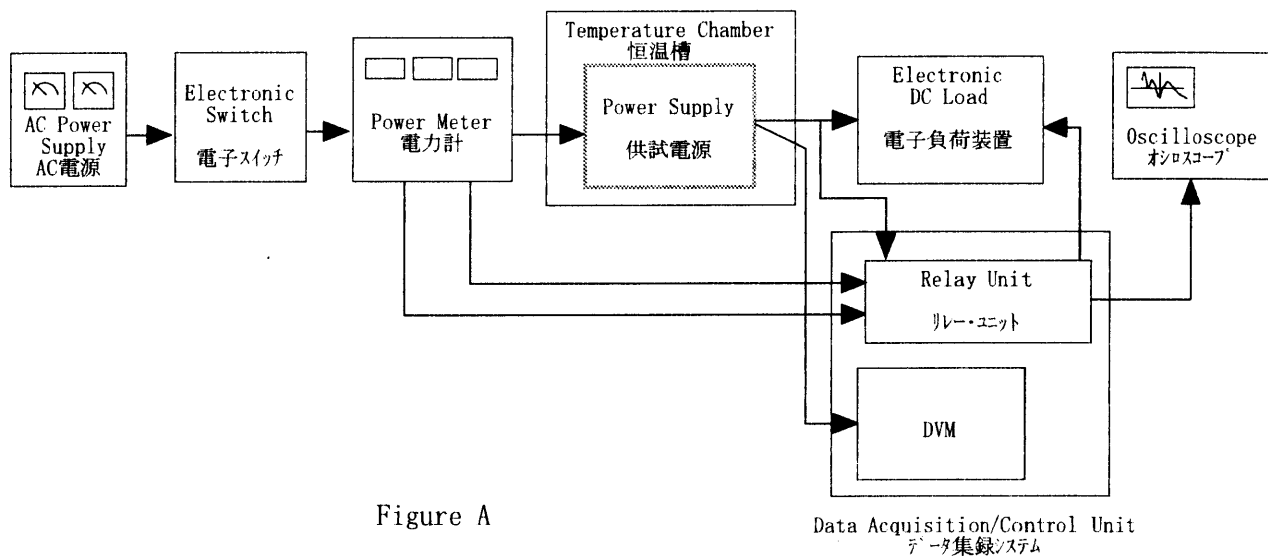


Figure B (DENTORI)

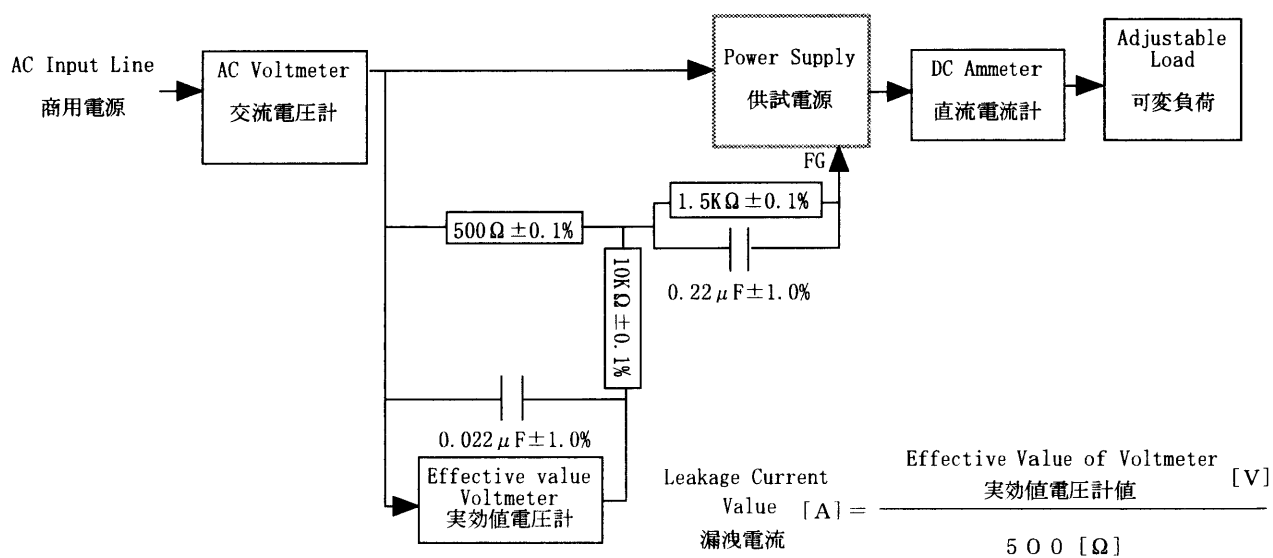


Figure B (IEC 60950)

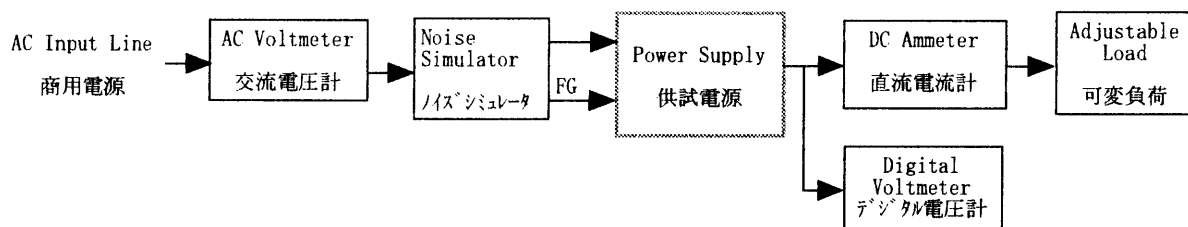


Figure C

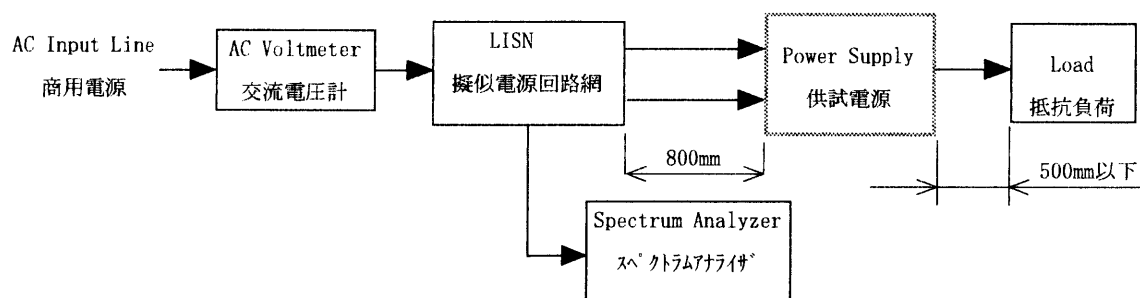


Figure D

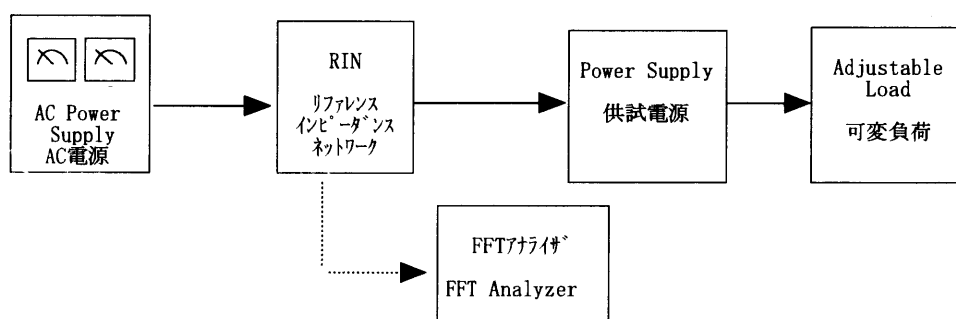


Figure E