

COSEL

TEST DATA OF YS1005A
(100V INPUT)

Regulated DC Power Supply

Date : Apr. 10. 1999

Approved by : H. Takahashi
Design Manager

Prepared by : Y. Shimizu
Design Engineer

コーセル株式会社
COSEL CO., LTD.



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Model	YS1005A	Temperature Testing Circuitry	25°C Figure A																																
Item	Line Regulation 静的入力変動																																		
Object	+5.0V 2.00A																																		
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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。

COSEL

Model	YS1005A	Temperature Testing Circuitry	25°C Figure A																																
Item	Power Factor (by Input Voltage) 力率 (入力電圧特性)																																		
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Note: Slanted line shows the range of the rated input voltage.

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COSEL

Model	YS1005A	Temperature Testing Circuitry	25°C Figure A																																																							
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COSEL

Model	YS1005A	Temperature Testing Circuitry	25°C Figure A																																
Item	Hold-Up Time 出力保持時間																																		
Object	+5.0V 2.00A																																		
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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 input voltage.

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。

(注)斜線は定格入力電圧範囲を示す。

COSEL

Model	YS1005A	Temperature 25°C Testing Circuitry Figure A		
Item	Instantaneous Interruption Compensation 瞬時停電保障			
Object	+5.0V 2.00A			
1. Graph	<p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 85 V (open triangle) Input Volt. 100 V (open square) Input Volt. 132 V (open circle) 			
2. Values	Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]			
0.0	—	—	—	—
0.4	102	141	233	
0.8	51	74	134	
1.2	27	47	88	
1.6	16	31	66	
2.0	10	18	48	
2.2	7	16	42	
—	—	—	—	
—	—	—	—	
—	—	—	—	
—	—	—	—	

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。

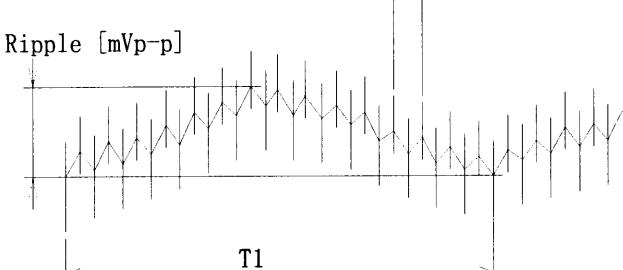
COSEL

Model	YS1005A	Temperature Testing Circuitry 25°C Figure A		
Item	Load Regulation 靜的負荷変動			
Object	+5.0V 2.00A			
1. Graph				
2. Values				
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	
Output Volt. [V]	Output Volt. [V]	Output Volt. [V]		
0.0	5.017	5.017	5.017	
0.4	5.016	5.016	5.016	
0.8	5.016	5.016	5.016	
1.2	5.015	5.015	5.016	
1.6	5.015	5.015	5.015	
2.0	5.015	5.015	5.015	
2.2	5.014	5.015	5.014	
—	—	—	—	
—	—	—	—	
—	—	—	—	

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。

COSEL

Model	YS1005A	Temperature Testing Circuitry 25°C Figure A																																								
Item	Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)																																									
Object	+5.0V 2.00A																																									
1. Graph	<p>-----□----- Input Volt. 85V [mV]</p> <p>-----△----- Input Volt. 132V</p> <table border="1"> <caption>Data points estimated from Figure 1</caption> <thead> <tr> <th>Load Current [A]</th> <th>Ripple Output Volt. 85V [mV]</th> <th>Ripple Output Volt. 132V [mV]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>10</td><td>10</td></tr> <tr><td>0.4</td><td>15</td><td>10</td></tr> <tr><td>0.8</td><td>15</td><td>10</td></tr> <tr><td>1.2</td><td>20</td><td>10</td></tr> <tr><td>1.6</td><td>20</td><td>15</td></tr> <tr><td>2.0</td><td>25</td><td>15</td></tr> <tr><td>2.2</td><td>25</td><td>15</td></tr> </tbody> </table>			Load Current [A]	Ripple Output Volt. 85V [mV]	Ripple Output Volt. 132V [mV]	0.0	10	10	0.4	15	10	0.8	15	10	1.2	20	10	1.6	20	15	2.0	25	15	2.2	25	15															
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Fig. Complex Ripple Wave Form 図 リップル波形詳細図																																										

COSEL

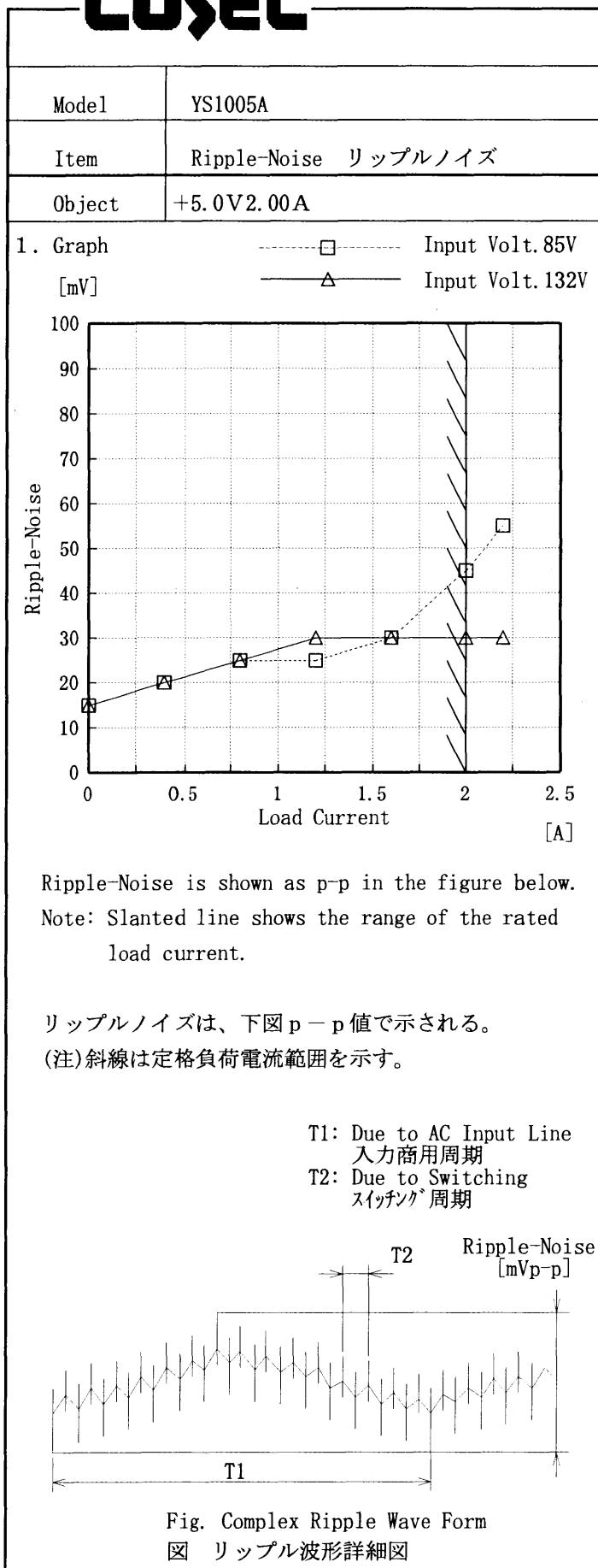


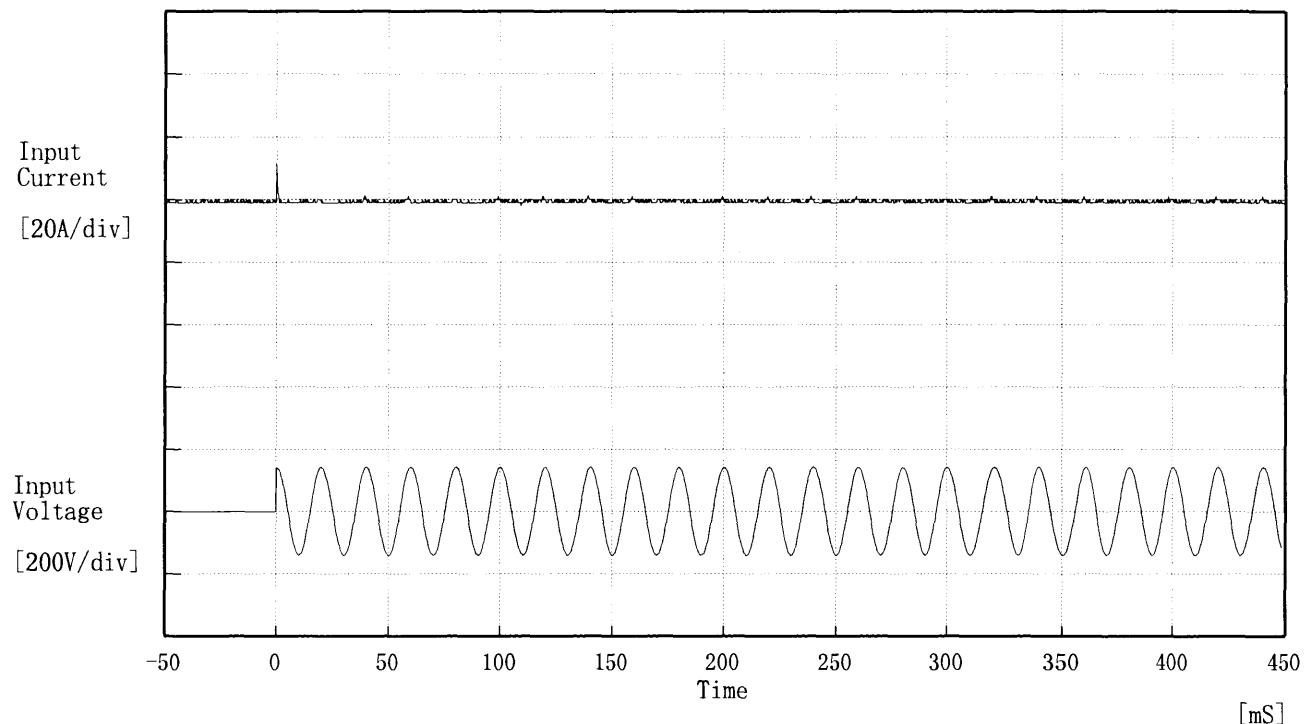
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COSEL

Model	YS1005A	Temperature 25°C Testing Circuitry Figure A																																																									
Item	Overcurrent Protection 過電流保護																																																										
Object	+5.0V 2.00A																																																										
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COSEL

Model	YS1005A	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	<hr/>		



Input Voltage 100 V

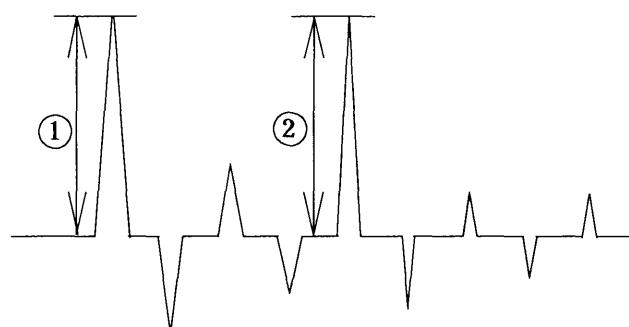
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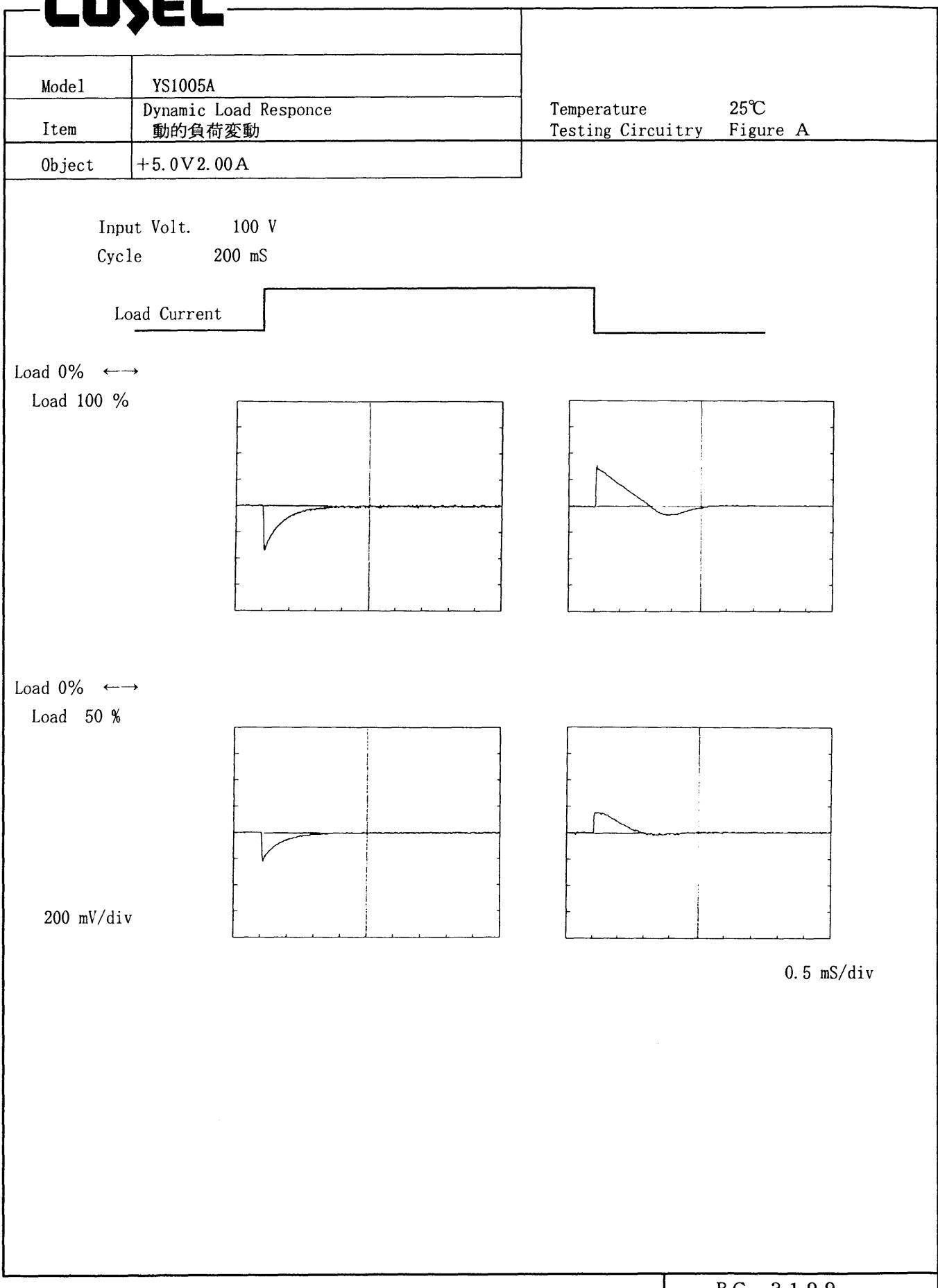
Load 100 %

Inrush Current

① 11.31 [A]

② 1.10 [A]

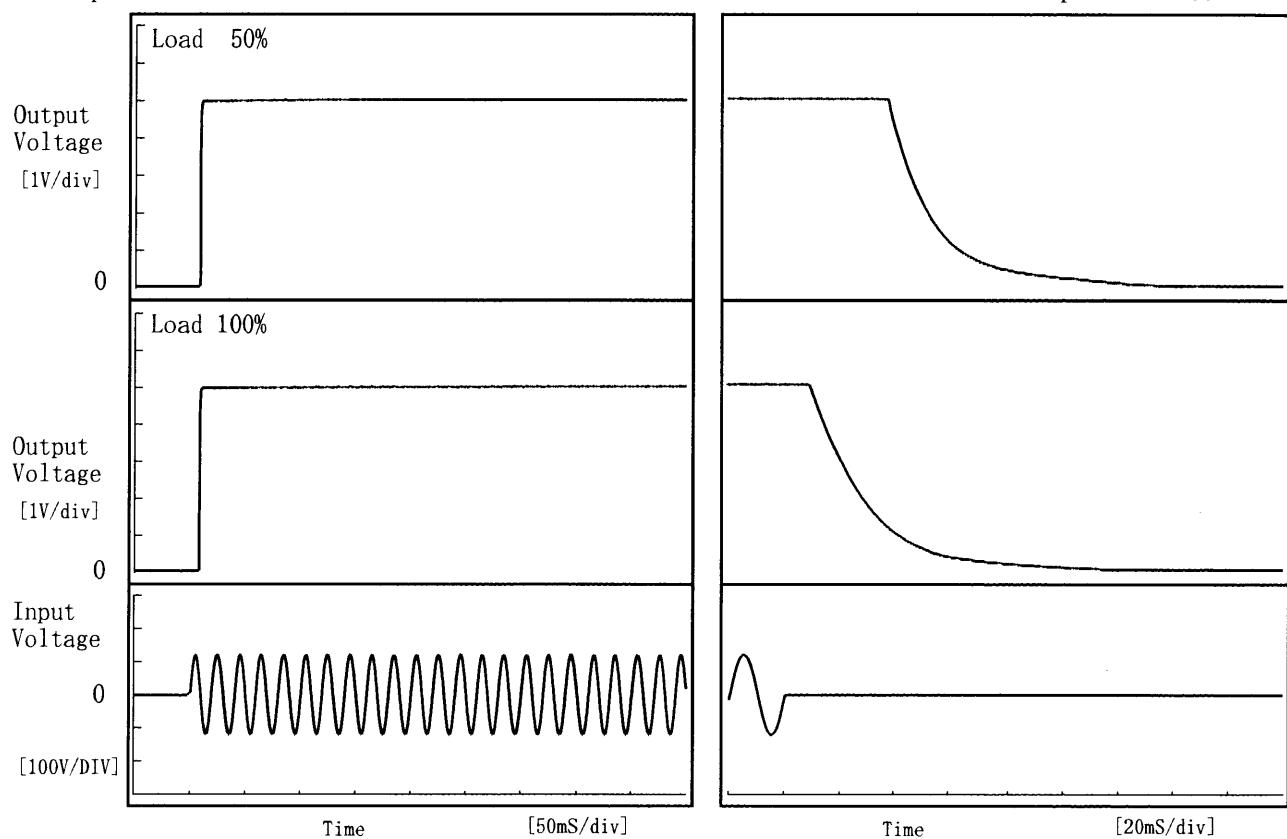


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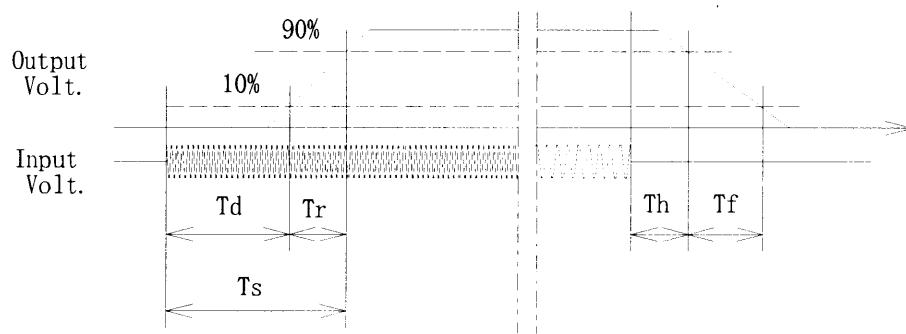
Model	YS1005A	Temperature Testing Circuitry Figure A	25°C
Item	Rise and Fall Time 立上り、立下り時間		
Object	+5.0V 2.00A		

1. Graph



2. Values

Load	Time	T d	T r	T s	T h	T f
50 %		8.5	0.8	9.3	39.9	37.4
100 %		8.5	1.0	9.5	12.2	42.6



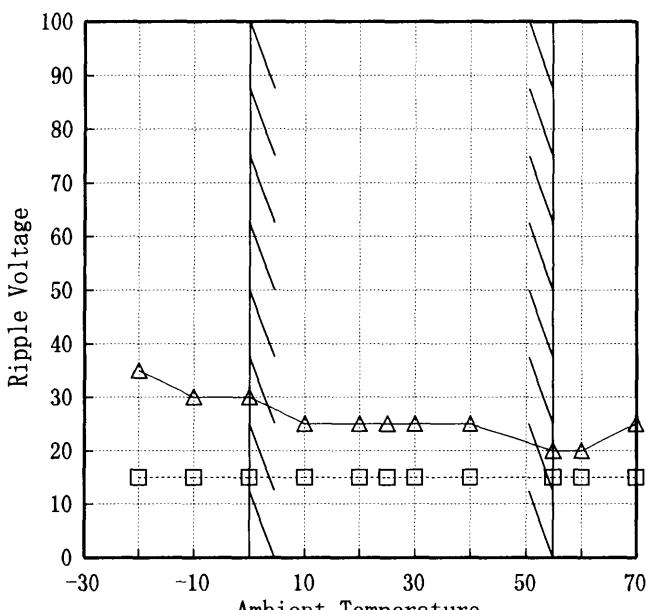
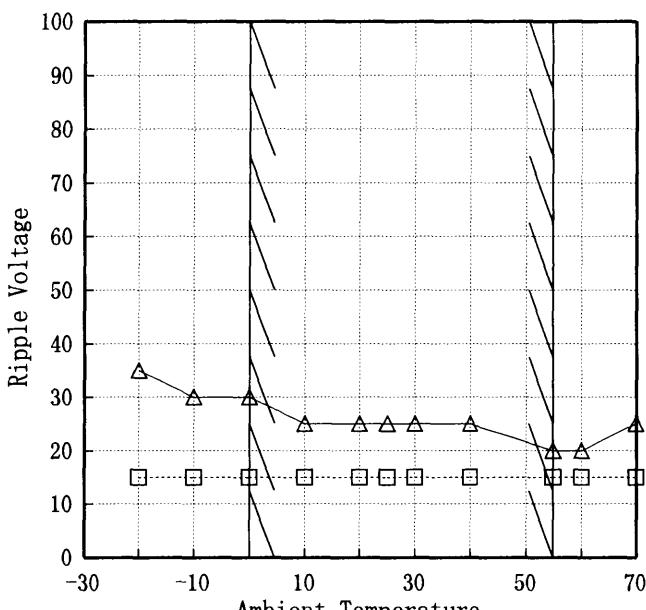
COSEL

Model	YS1005A	Testing Circuitry Figure A																																																					
Item	Ambient Temperature Drift 周囲温度変動																																																						
Object	+5.0V 2.00A																																																						
1. Graph	<p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																																						
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Temperature [°C]</th> <th>Input Volt. 85[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> <tr> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr> <td>-20</td><td>5.013</td><td>5.014</td><td>5.014</td></tr> <tr> <td>-10</td><td>5.014</td><td>5.014</td><td>5.014</td></tr> <tr> <td>0</td><td>5.014</td><td>5.014</td><td>5.014</td></tr> <tr> <td>10</td><td>5.013</td><td>5.013</td><td>5.013</td></tr> <tr> <td>20</td><td>5.013</td><td>5.014</td><td>5.014</td></tr> <tr> <td>25</td><td>5.014</td><td>5.014</td><td>5.014</td></tr> <tr> <td>30</td><td>5.014</td><td>5.014</td><td>5.015</td></tr> <tr> <td>40</td><td>5.014</td><td>5.014</td><td>5.014</td></tr> <tr> <td>55</td><td>5.011</td><td>5.011</td><td>5.010</td></tr> <tr> <td>60</td><td>5.009</td><td>5.009</td><td>5.009</td></tr> <tr> <td>70</td><td>5.005</td><td>5.005</td><td>5.005</td></tr> </tbody> </table>				Temperature [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	-20	5.013	5.014	5.014	-10	5.014	5.014	5.014	0	5.014	5.014	5.014	10	5.013	5.013	5.013	20	5.013	5.014	5.014	25	5.014	5.014	5.014	30	5.014	5.014	5.015	40	5.014	5.014	5.014	55	5.011	5.011	5.010	60	5.009	5.009	5.009	70	5.005	5.005	5.005
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COSEL

Model	YS1005A			
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧			
Object	+5.0V 2.00A			
1. Graph				
[V]	<p>Load 50% □</p> <p>Load 100% ▲</p>			
Input Voltage [V]	<p>Load 50% □</p> <p>Load 100% ▲</p>			
Ambient Temperature [°C]	<p>Load 50% □</p> <p>Load 100% ▲</p>			
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。				
Testing Circuitry Figure A				
2. Values				
Ambient Temp. [°C]	Load 50%	Load 100%		
	Input Volt. [V]	Input Volt. [V]		
-20	48	74		
-10	47	74		
0	47	74		
10	45	72		
20	45	72		
25	45	72		
30	45	72		
40	45	72		
55	45	74		
60	46	73		
70	47	74		

COSEL

Model	YS1005A																																									
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	Testing Circuitry Figure A																																								
Object	+5.0V 2.00A																																									
1. Graph																																										
[mV]		Load 50% 																																								
		2. Values																																								
<table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th></th> <th>Ripple Output Volt. [mV]</th> <th>Ripple Output Volt. [mV]</th> </tr> </thead> <tbody> <tr><td>-20</td><td>15</td><td>35</td></tr> <tr><td>-10</td><td>15</td><td>30</td></tr> <tr><td>0</td><td>15</td><td>30</td></tr> <tr><td>10</td><td>15</td><td>25</td></tr> <tr><td>20</td><td>15</td><td>25</td></tr> <tr><td>25</td><td>15</td><td>25</td></tr> <tr><td>30</td><td>15</td><td>25</td></tr> <tr><td>40</td><td>15</td><td>25</td></tr> <tr><td>55</td><td>15</td><td>20</td></tr> <tr><td>60</td><td>15</td><td>20</td></tr> <tr><td>70</td><td>15</td><td>25</td></tr> </tbody> </table>				Ambient Temp. [°C]	Load 50%	Load 100%		Ripple Output Volt. [mV]	Ripple Output Volt. [mV]	-20	15	35	-10	15	30	0	15	30	10	15	25	20	15	25	25	15	25	30	15	25	40	15	25	55	15	20	60	15	20	70	15	25
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<p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注)斜線は定格周囲温度範囲を示す。</p>																																										

COSEL

Model	YS1005A	Temperature	25 °C																							
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																							
Object	+5.0V 2.00A																									
1. Graph			2. Values																							
<p>[V]</p> <table border="1"> <caption>Data points from Figure A graph</caption> <thead> <tr> <th>Time [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.014</td></tr> <tr><td>0.5</td><td>5.014</td></tr> <tr><td>1.0</td><td>5.014</td></tr> <tr><td>2.0</td><td>5.014</td></tr> <tr><td>3.0</td><td>5.014</td></tr> <tr><td>4.0</td><td>5.014</td></tr> <tr><td>5.0</td><td>5.014</td></tr> <tr><td>6.0</td><td>5.014</td></tr> <tr><td>7.0</td><td>5.014</td></tr> <tr><td>8.0</td><td>5.014</td></tr> <tr><td>9.0</td><td>5.002</td></tr> </tbody> </table>			Time [H]	Output Voltage [V]	0.0	5.014	0.5	5.014	1.0	5.014	2.0	5.014	3.0	5.014	4.0	5.014	5.0	5.014	6.0	5.014	7.0	5.014	8.0	5.014	9.0	5.002
Time [H]	Output Voltage [V]																									
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9.0	5.002																									
<p>Output Voltage [V]</p> <p>Input Volt. 100V</p> <p>Load 100%</p>																										



Model	YS1005A	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+5.0V 2.00A	

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 : 0~55 °C

Input Voltage : 85~132 V

Load Current : 0.00~2.00 A

* Output Voltage Accuracy = ±(Maximum of Output Voltage - Minimum of Output Voltage) / 2

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

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、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 0~55 °C

入力電圧 85~132 V

負荷電流 0.00~2.00 A

* 定電圧精度(変動値) = ±(出力電圧の最高値-出力電圧の最低値) / 2

$$* \text{ 定電圧精度(変動率)} = \frac{\text{変動値}}{\text{定格出力電圧}} \times 100$$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	25	100	0.00	5.018		
Minimum Voltage	55	85	2.00	5.010	±4	±0.1

COSEL

Model	YS1005A	Temperature 25°C Testing Circuitry Figure A																																																					
Item	Oscillator Frequency 発振周波数																																																						
Object	+5.0V 2.00A																																																						
1. Graph	<p>[KHz]</p>																																																						
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th>Input Volt.</th> <th>Input Volt.</th> <th>Input Volt.</th> </tr> <tr> <th>85[V]</th> <th>100[V]</th> <th>132[V]</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>995</td> <td>1000</td> <td>1005</td> </tr> <tr> <td>0.4</td> <td>606</td> <td>651</td> <td>714</td> </tr> <tr> <td>0.8</td> <td>429</td> <td>466</td> <td>520</td> </tr> <tr> <td>1.2</td> <td>328</td> <td>363</td> <td>413</td> </tr> <tr> <td>1.6</td> <td>269</td> <td>295</td> <td>339</td> </tr> <tr> <td>2.0</td> <td>223</td> <td>248</td> <td>286</td> </tr> <tr> <td>2.2</td> <td>206</td> <td>232</td> <td>266</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>				Load Current [A]	Input Volt.	Input Volt.	Input Volt.	85[V]	100[V]	132[V]	0.0	995	1000	1005	0.4	606	651	714	0.8	429	466	520	1.2	328	363	413	1.6	269	295	339	2.0	223	248	286	2.2	206	232	266	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt.	Input Volt.	Input Volt.																																																				
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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。



Model	YS1005A	
Item	Condensation 結露特性	Testing Circuitry Figure A
Object	+5.0V 2.00A	

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10°C for an hour with the input off.
- ② Taking it out of the tank and dewing itself in a room where the temperature is 25°C and the humidity is 40%RH.
- ③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で-10°Cに冷却しておき、約1時間後に恒温槽から取り出し、室温25°C、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常がないことを確認する。

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	5.015	Input Volt.: 100V, Load Current:2.00A
Line Regulation [mV]	1	Input Volt.: 85~132V, Load Current:2.00A
Load Regulation [mV]	2	Input Volt.: 100V, Load Current:0~2.00A



Model	YS1005A	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	<hr/>		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.15	0.18	0.24
(B) IEC60950	0.15	0.17	0.23

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。

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



Model	YS1005A	Temperature Testing Circuitry	25°C Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+5.0V 2.00A		

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

Conditions

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

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Model	YS1005A		
Item	Conducted Emission 雜音端子電圧	Testing Circuitry	Figure D
Object	_____		

1. Graph

Remarks

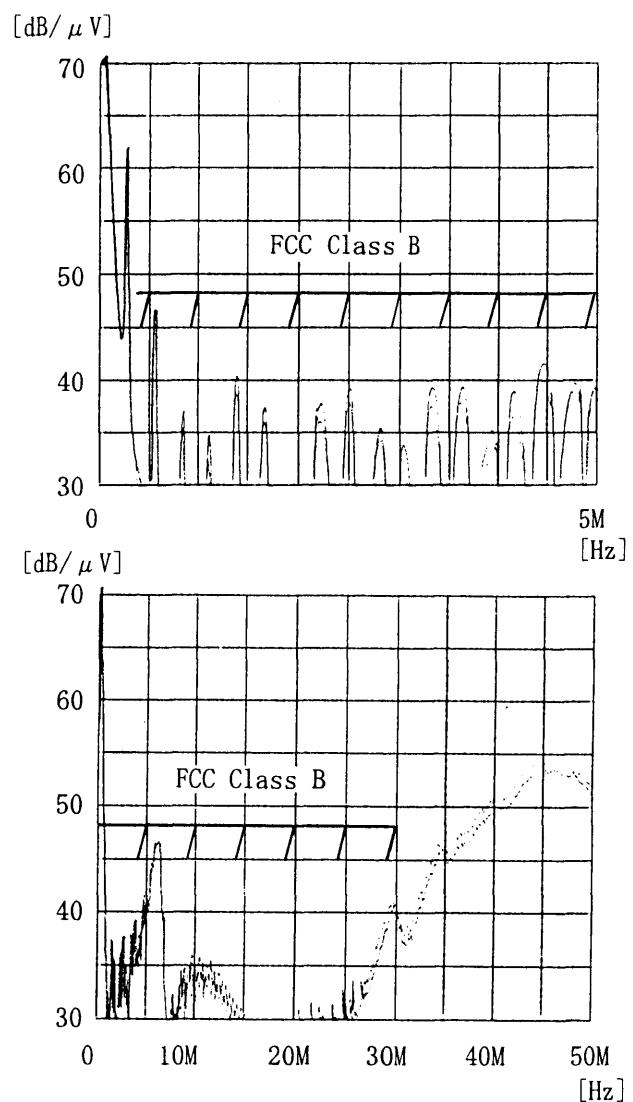
Input Volt. 120 V

Load 100 %

Note: Slanted line shows the range of Tolerance.

(注)斜線は許容値を示す。

NO	Standards	Standards Complied	Frequency [MHz]	Tolerance [dB/ μ V]
1	FCC class A		0.45~1.6	60
			1.6~30	69.5
2	FCC class B	○	0.45~30	48
3	VCCI class A		0.15~0.5	79
			0.5~30	73
4	VCCI class B		0.15~0.5	66-56
			0.5~5	56
			5~30	60
5	CISPR Pub. 22 class A (EN55022)		0.15~0.5	79
			0.5~30	73
6	CISPR Pub. 22 class B (EN55022)		0.15~0.5	66-56
			0.5~5	56
			5~30	60



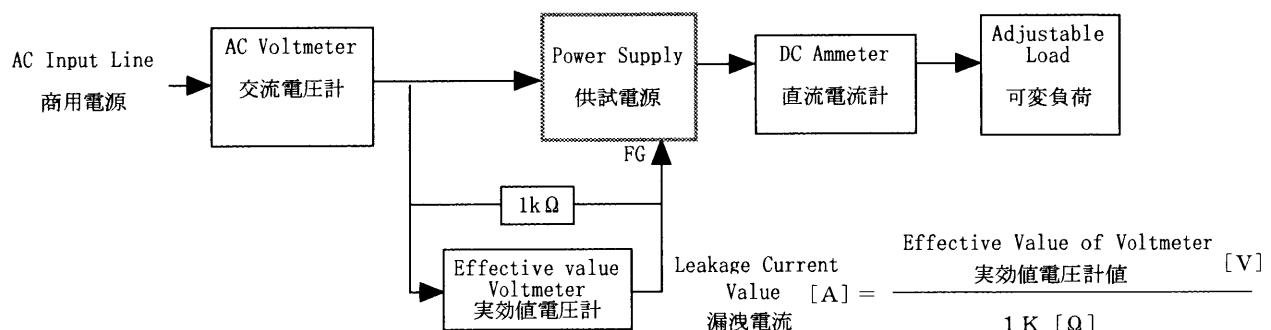
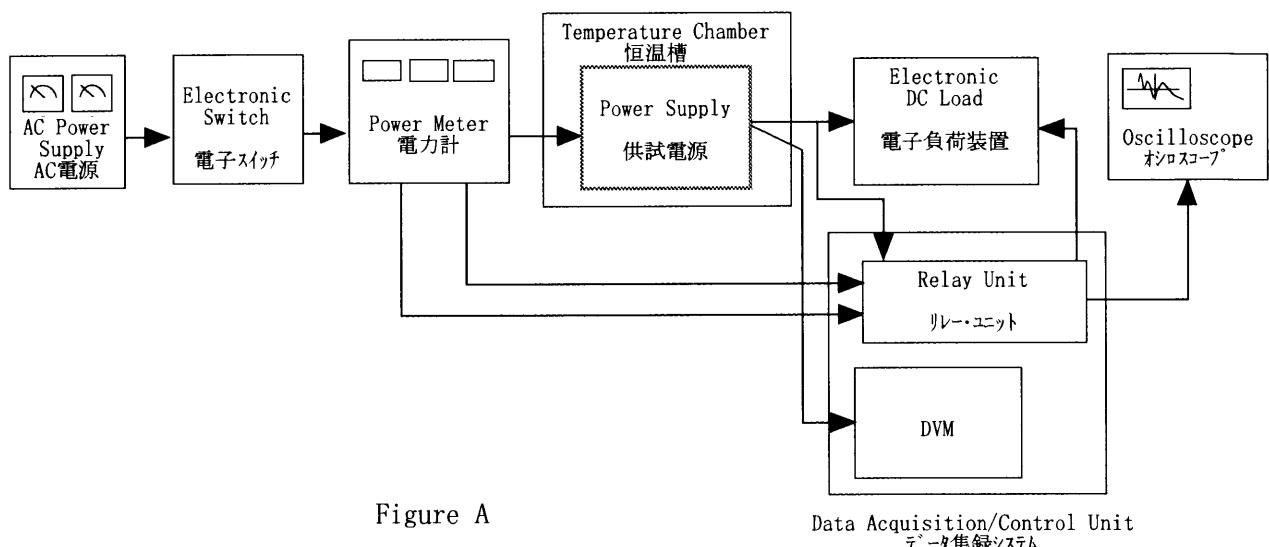


Figure B (DENTORI)

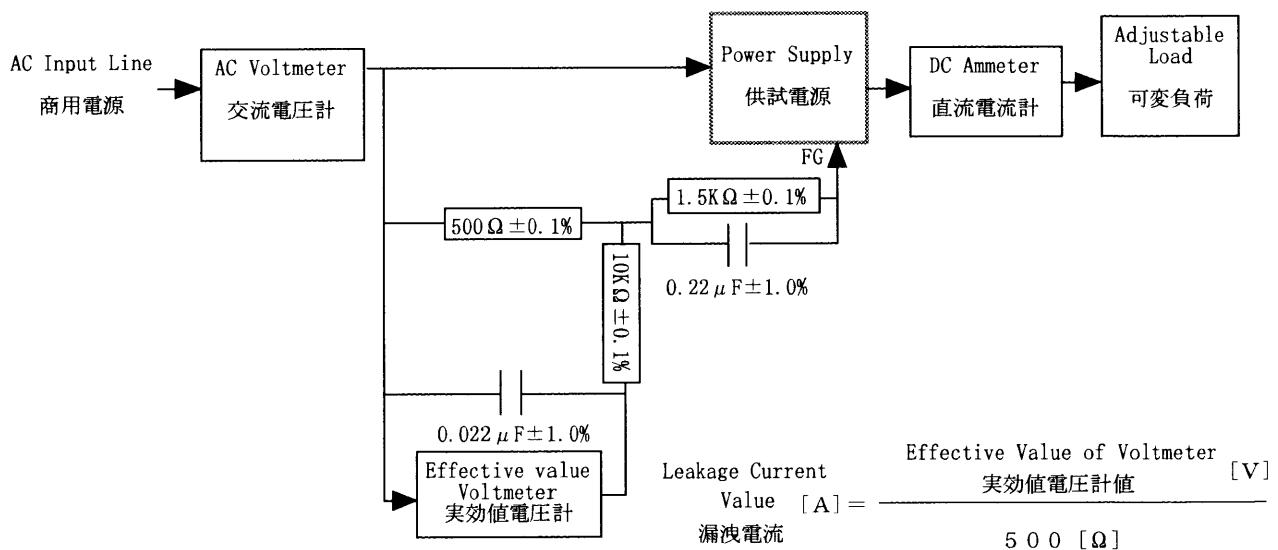


Figure B (IEC 60950)

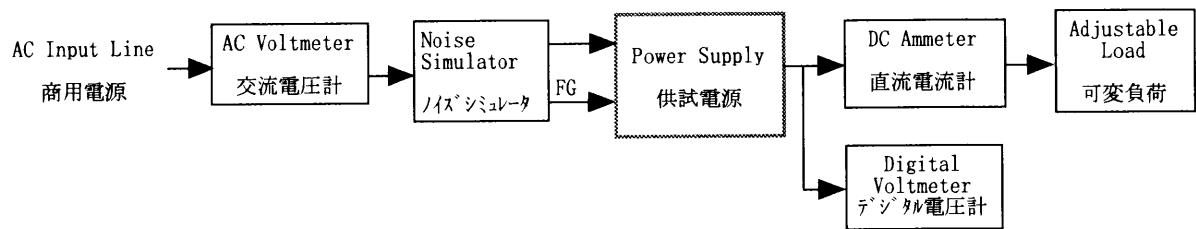


Figure C

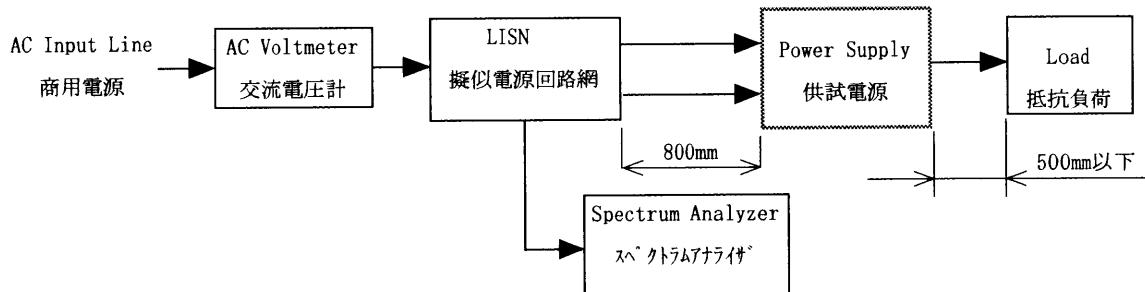


Figure D

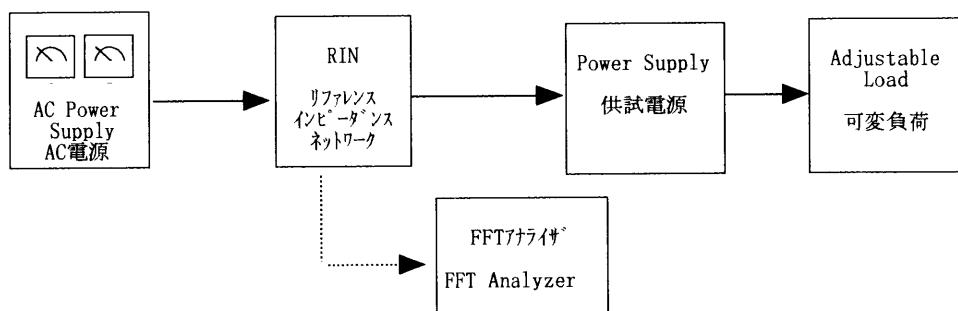


Figure E