



TEST DATA OF YS1012A (100V INPUT)

Regulated DC Power Supply

Date : Apr. 9. 1999

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Design Manager

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Design Engineer

コーチセル株式会社
COSEL CO., LTD.



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Model	YS1012A		
Item	Line Regulation 静的入力変動		
Object	+12.0V 0.90A		
1. Graph		2. Values	
<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>		Temperature 25°C Testing Circuitry Figure A	
Input Voltage [V]	Load 50% Output Volt. [V]	Load 100% Output Volt. [V]	
75	12.022	12.021	
80	12.022	12.021	
85	12.022	12.021	
90	12.023	12.021	
100	12.023	12.021	
110	12.023	12.021	
120	12.023	12.021	
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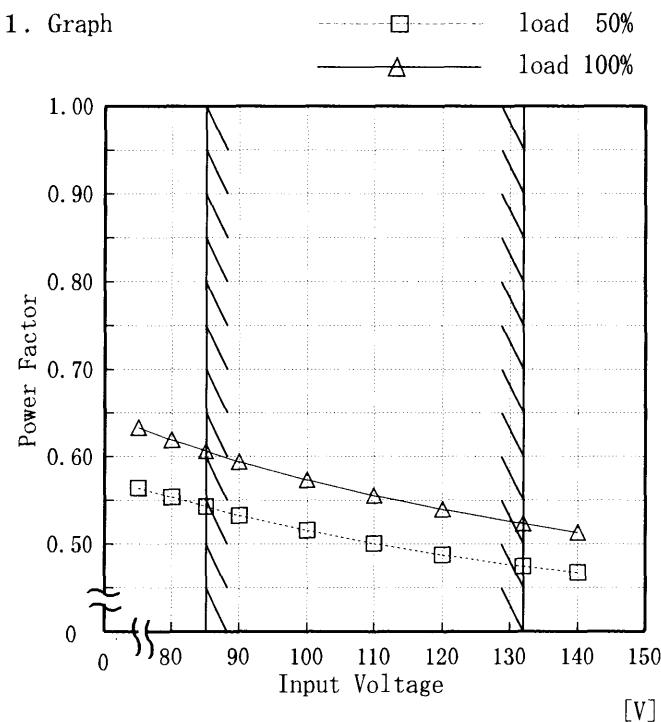
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Item	Efficiency (by Load Current) 効率(負荷電流特性)	Testing Circuitry	Figure A																																																							
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1. Graph	<p>The graph plots Efficiency [%] on the y-axis (40 to 90) against Load Current [A] on the x-axis (0 to 1.2). Three data series are shown for different input voltages: 85V (triangles), 100V (squares), and 132V (circles). All three curves show an initial increase in efficiency with load current, followed by a slight decrease as the load approaches the rated value. A slanted line on the graph indicates the range of the rated load current.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Efficiency 85V [%]</th> <th>Efficiency 100V [%]</th> <th>Efficiency 132V [%]</th> </tr> </thead> <tbody> <tr><td>0.15</td><td>53.8</td><td>50.0</td><td>41.5</td></tr> <tr><td>0.30</td><td>67.0</td><td>64.1</td><td>57.3</td></tr> <tr><td>0.45</td><td>72.0</td><td>70.2</td><td>65.1</td></tr> <tr><td>0.60</td><td>74.5</td><td>73.4</td><td>69.7</td></tr> <tr><td>0.75</td><td>75.1</td><td>75.1</td><td>72.6</td></tr> <tr><td>0.90</td><td>74.2</td><td>75.6</td><td>74.4</td></tr> <tr><td>0.99</td><td>72.6</td><td>75.6</td><td>75.0</td></tr> </tbody> </table>			Load Current [A]	Efficiency 85V [%]	Efficiency 100V [%]	Efficiency 132V [%]	0.15	53.8	50.0	41.5	0.30	67.0	64.1	57.3	0.45	72.0	70.2	65.1	0.60	74.5	73.4	69.7	0.75	75.1	75.1	72.6	0.90	74.2	75.6	74.4	0.99	72.6	75.6	75.0																							
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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	YS1012A	Temperature Testing Circuitry	25°C Figure A																																
Item	Hold-Up Time 出力保持時間																																		
Object	+12.0V 0.90A																																		
1. Graph	<p style="text-align: center;">—△— Load 50% -□- Load 100%</p>	2. Values																																	
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Input Voltage [V]	Load 50%	Load 100%																																	
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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.

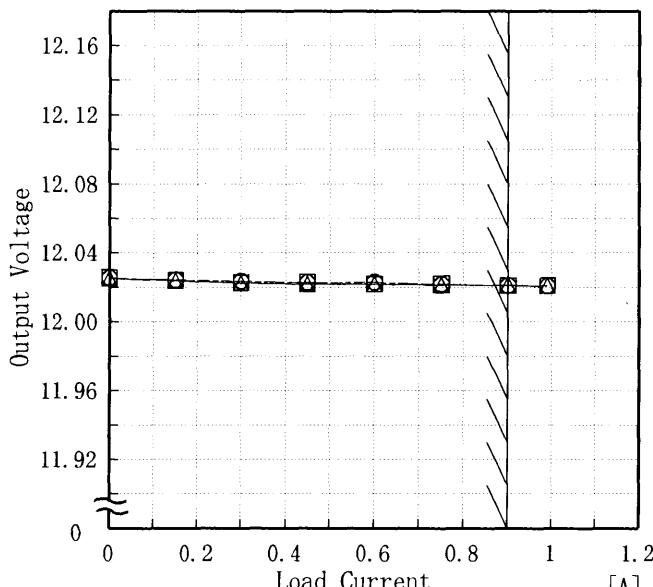
出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

(注)斜線は定格入力電圧範囲を示す。

COSEL

Model	YS1012A																																																										
Item	Instantaneous Interruption Compensation 瞬時停電保障	Temperature Testing Circuitry	25°C	Figure A																																																							
Object	+12.0V 0.90A																																																										
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Load Current [A]	Input Volt.	Input Volt.	Input Volt.																																																								
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COSEL

Model	YS1012A																																																		
Item	Load Regulation 靜的負荷変動	Temperature 25°C Testing Circuitry Figure A																																																	
Object	+ 12.0V 0.90A																																																		
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COSEL

Model	YS1012A	Temperature Testing Circuitry	25°C																																						
Item	Ripple Voltage (by Load Current) リップル電圧(負荷電流特性)		Figure A																																						
Object	+12.0V 0.90A																																								
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Fig. Complex Ripple Wave Form 図 リップル波形詳細図																																									

COSEL

Model	YS1012A	Temperature Testing Circuitry	25°C																																						
Item	Ripple-Noise リップルノイズ		Figure A																																						
Object	+12.0V 0.90A	2. Values																																							
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COSEL

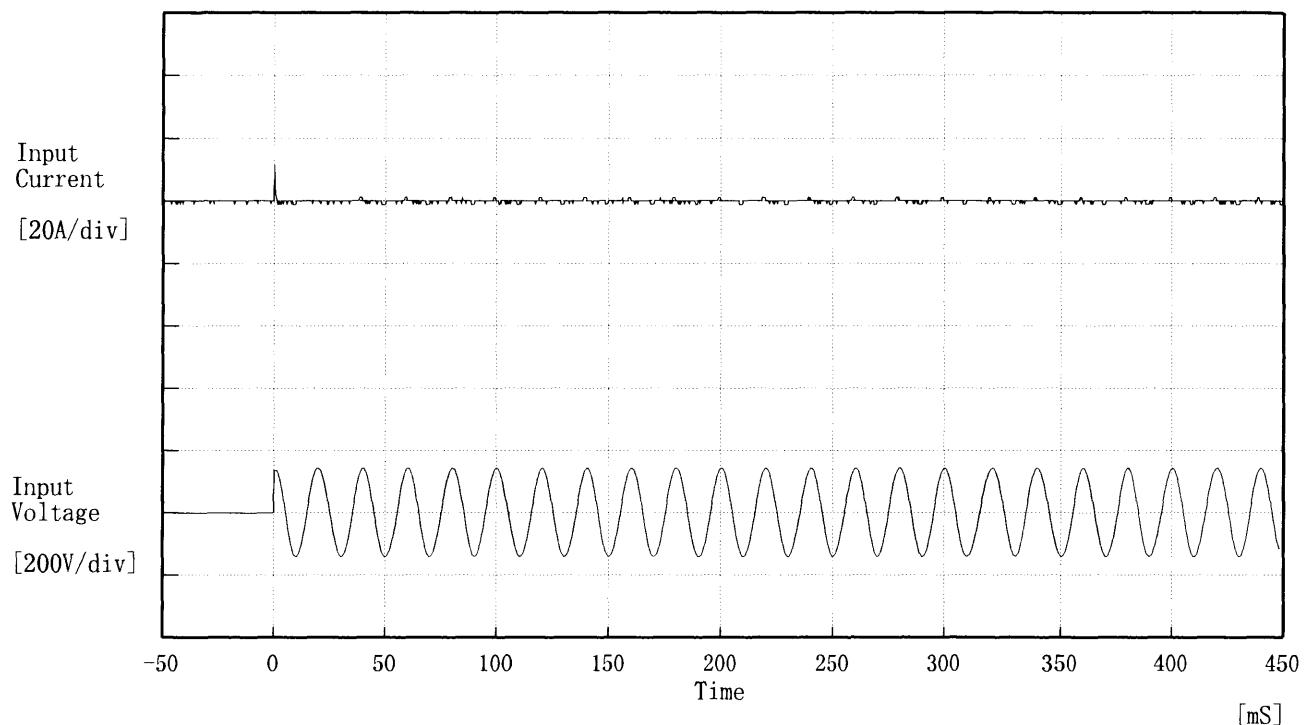
Model	YS1012A	Temperature 25°C Testing Circuitry Figure A																																																						
Item	Overcurrent Protection 過電流保護																																																							
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Output Voltage [V]	Input Volt. 85[V] Load Current [A]	Input Volt. 100[V] Load Current [A]	Input Volt. 132[V] Load Current [A]																																																					
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3.60	0.85	0.89	0.87																																																					
2.40	0.76	0.79	0.78																																																					
1.20	0.63	0.66	0.67																																																					
0.00	0.49	0.51	0.54																																																					

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	YS1012A	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	—		



Input Voltage 100 V

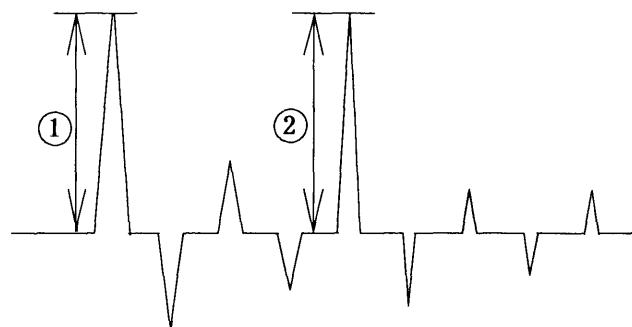
Frequency 50 Hz

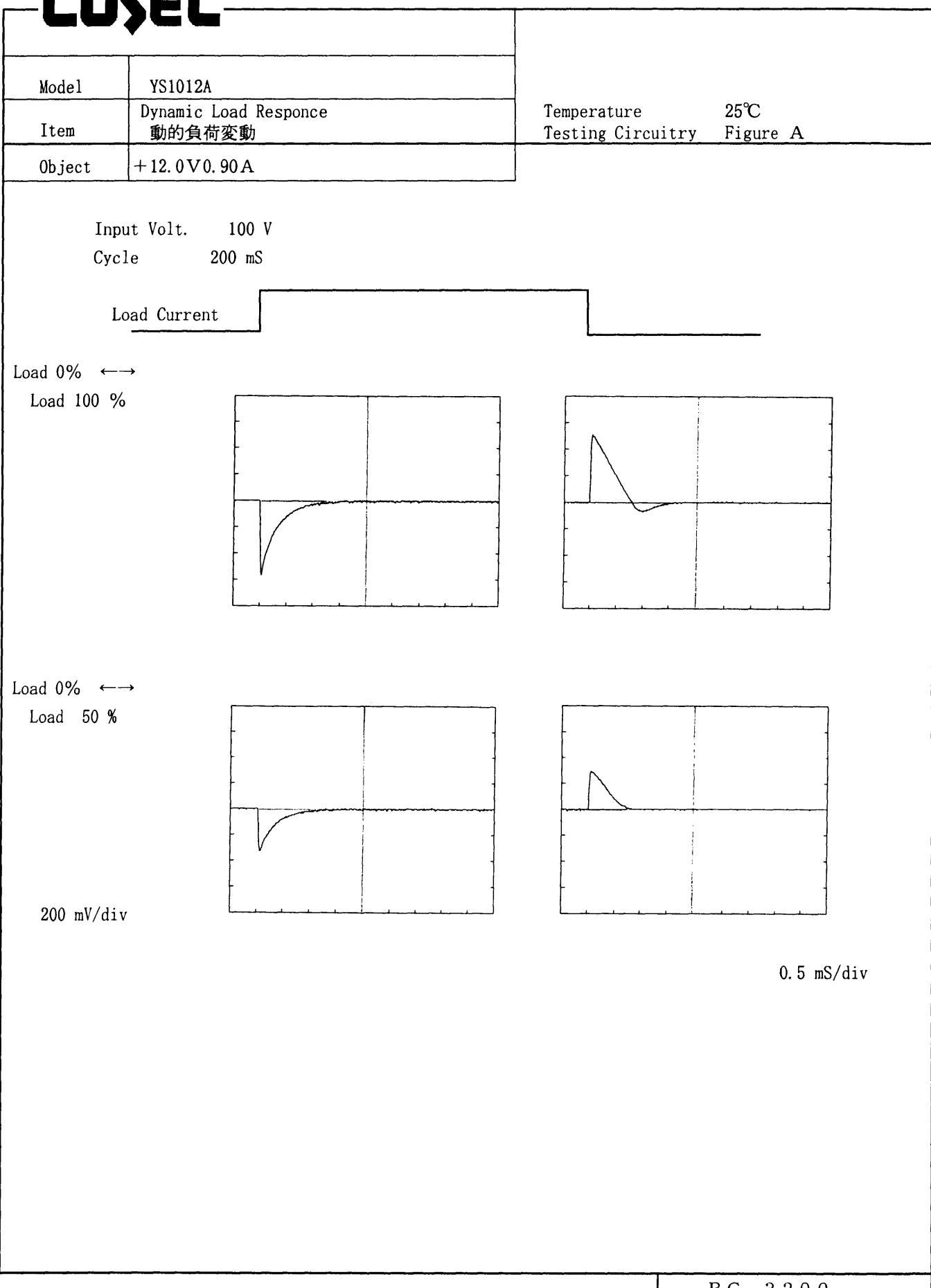
Load 100 %

Inrush Current

① 11.25 [A]

② 1.15 [A]

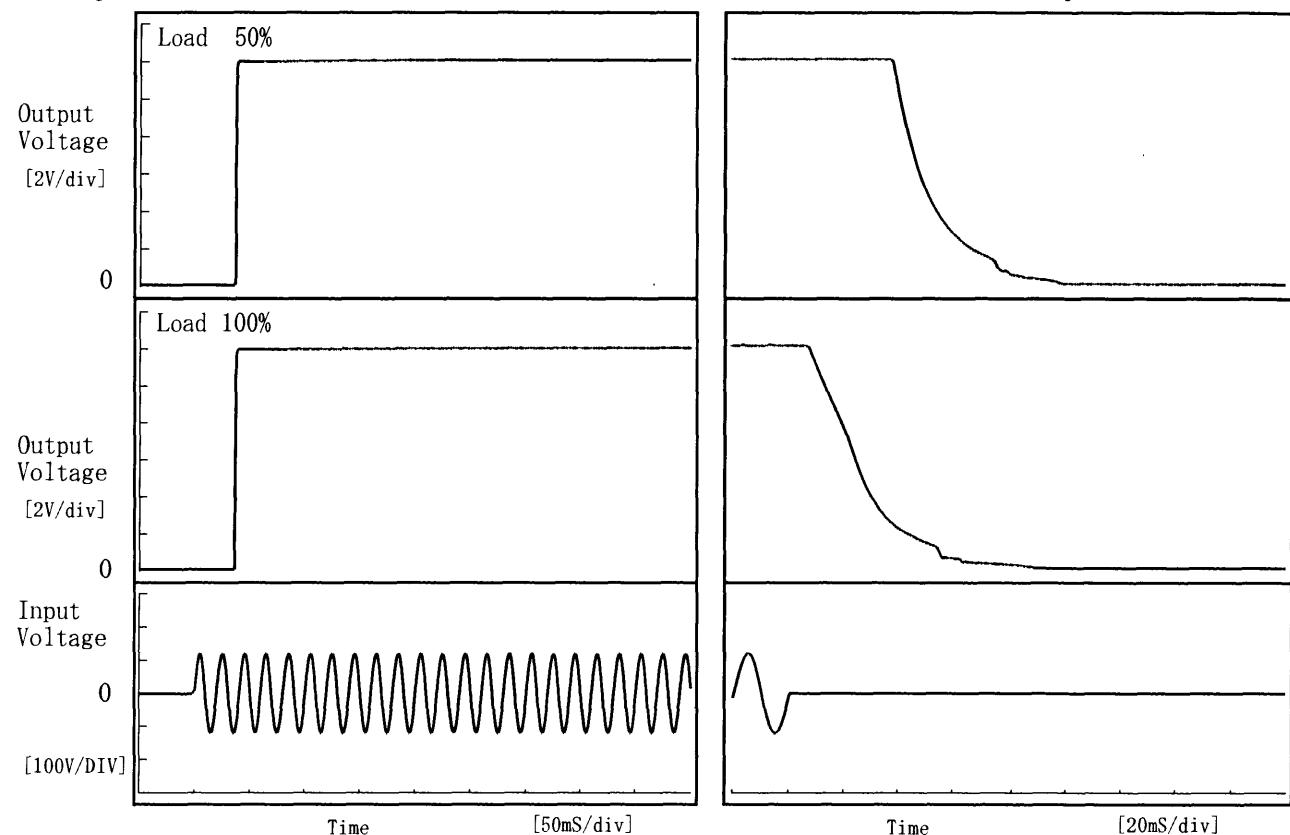


COSEL

COSEL

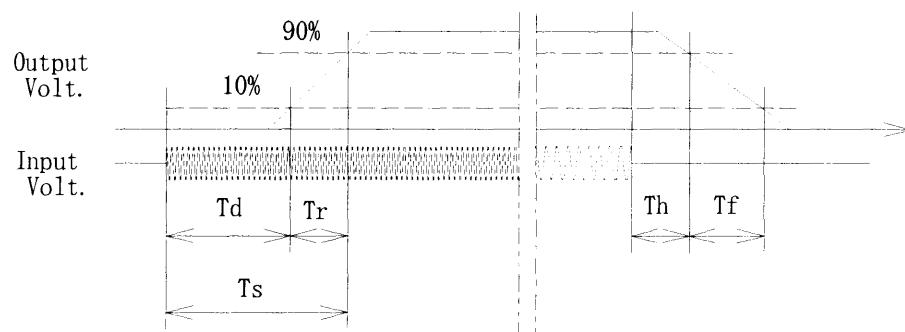
Model	YS1012A	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12.0V 0.90A		

1. Graph



2. Values

Load	Time	T d	T r	T s	T h	T f	[mS]
50 %		35.8	1.0	36.8	40.0	34.9	
100 %		35.8	1.0	36.8	11.4	43.4	



COSEL

Model	YS1012A	Testing Circuitry Figure A																																																					
Item	Ambient Temperature Drift 周囲温度変動																																																						
Object	+12.0V 0.90A																																																						
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>12.033</td><td>12.032</td><td>12.032</td></tr> <tr> <td>-10</td><td>12.028</td><td>12.028</td><td>12.028</td></tr> <tr> <td>0</td><td>12.023</td><td>12.024</td><td>12.025</td></tr> <tr> <td>10</td><td>12.022</td><td>12.022</td><td>12.022</td></tr> <tr> <td>20</td><td>12.020</td><td>12.021</td><td>12.021</td></tr> <tr> <td>25</td><td>12.020</td><td>12.019</td><td>12.020</td></tr> <tr> <td>30</td><td>12.018</td><td>12.020</td><td>12.019</td></tr> <tr> <td>40</td><td>12.013</td><td>12.013</td><td>12.014</td></tr> <tr> <td>55</td><td>12.002</td><td>12.002</td><td>12.002</td></tr> <tr> <td>60</td><td>11.998</td><td>11.998</td><td>11.998</td></tr> <tr> <td>70</td><td>11.989</td><td>11.989</td><td>11.988</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	12.033	12.032	12.032	-10	12.028	12.028	12.028	0	12.023	12.024	12.025	10	12.022	12.022	12.022	20	12.020	12.021	12.021	25	12.020	12.019	12.020	30	12.018	12.020	12.019	40	12.013	12.013	12.014	55	12.002	12.002	12.002	60	11.998	11.998	11.998	70	11.989	11.989	11.988
Temperature [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																				
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COSEL

Model	YS1012A			
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧			
Object	+12.0V 0.90A			
1. Graph				
[V]	 Load 50% Load 100%			
Input Voltage [V]				
Ambient Temperature [°C]				
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	47	74		
-10	46	74		
0	46	74		
10	46	73		
20	46	74		
25	46	73		
30	45	74		
40	45	74		
55	45	74		
60	45	76		
70	46	78		



Model	YS1012A	Testing Circuitry Figure A
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	
Object	+12.0V 0.90A	

1. Graph

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	25	35
-10	20	30
0	15	25
10	15	25
20	15	25
25	15	25
30	15	25
40	15	25
55	15	25
60	15	25
70	15	25

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。

COSEL

Model	YS1012A	Temperature 25 °C																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry Figure A																						
Object	+12.0V 0.90A																							
1. Graph		2. Values																						
<p>[V]</p> <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 100V Load 100%</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>12.022</td></tr> <tr><td>0.5</td><td>12.019</td></tr> <tr><td>1.0</td><td>12.019</td></tr> <tr><td>2.0</td><td>12.019</td></tr> <tr><td>3.0</td><td>12.019</td></tr> <tr><td>4.0</td><td>12.020</td></tr> <tr><td>5.0</td><td>12.020</td></tr> <tr><td>6.0</td><td>12.020</td></tr> <tr><td>7.0</td><td>12.020</td></tr> <tr><td>8.0</td><td>12.019</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	12.022	0.5	12.019	1.0	12.019	2.0	12.019	3.0	12.019	4.0	12.020	5.0	12.020	6.0	12.020	7.0	12.020	8.0	12.019
Time since start [H]	Output Voltage [V]																							
0.0	12.022																							
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1.0	12.019																							
2.0	12.019																							
3.0	12.019																							
4.0	12.020																							
5.0	12.020																							
6.0	12.020																							
7.0	12.020																							
8.0	12.019																							



Model	YS1012A	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+12.0V 0.90A	

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 : 0.00~0.90 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 0.00~0.90 A

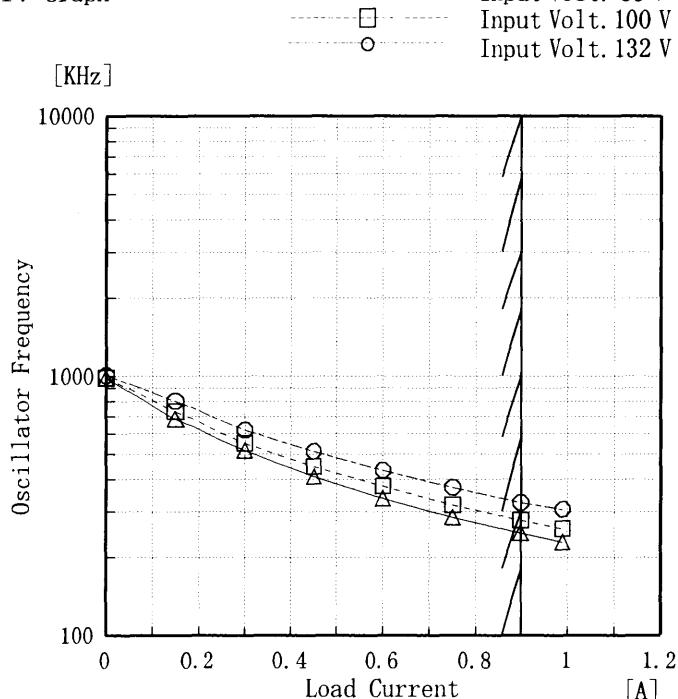
* 定電圧精度(変動値) = ±(出力電圧の最高値-出力電圧の最低値) / 2

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

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	0	100	0.00	12.031	±15	±0.2
Minimum Voltage	55	132	0.90	12.002		

COSEL

Model	YS1012A	Temperature	25°C		
Item	Oscillator Frequency 発振周波数	Testing Circuitry	Figure A		
Object	+12.0V 0.90A				
1. Graph		2. Values			
[KHz]		Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
10000			985	990	1010
1000			685	733	803
100			518	552	621
			411	448	513
			338	377	434
			285	319	372
			248	279	326
			229	258	306
		—	—	—	—
		—	—	—	—
		—	—	—	—



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	YS1012A		
Item	Condensation 結露特性	Testing Circuitry	Figure A
Object	+12.0V 0.90A		

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、異常のないことを確認する。

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	12.021	Input Volt.: 100V, Load Current: 0.90A
Line Regulation [mV]	1	Input Volt.: 85~132V, Load Current: 0.90A
Load Regulation [mV]	5	Input Volt.: 100V, Load Current: 0.0~0.90A



Model	YS1012A	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	YS1012A	Temperature Testing Circuitry	25°C Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+12.0V 0.90A		

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	YS1012A	Testing Circuitry	Figure D
Item	Conducted Emission 雜音端子電圧		
Object	_____		

1. Graph

Remarks

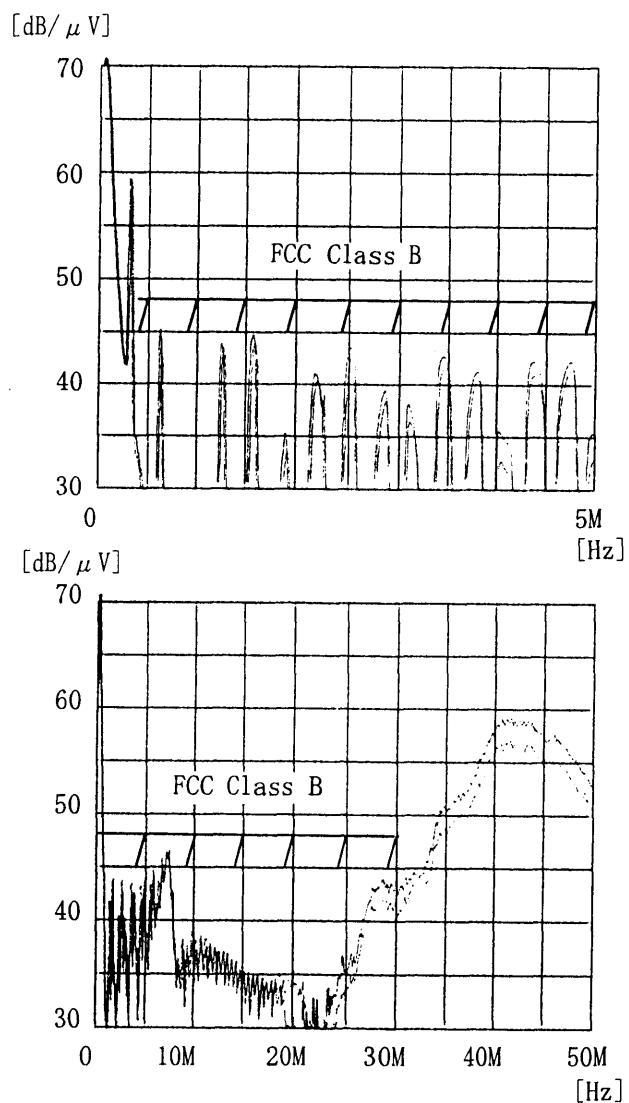
Input Volt. 120 V

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



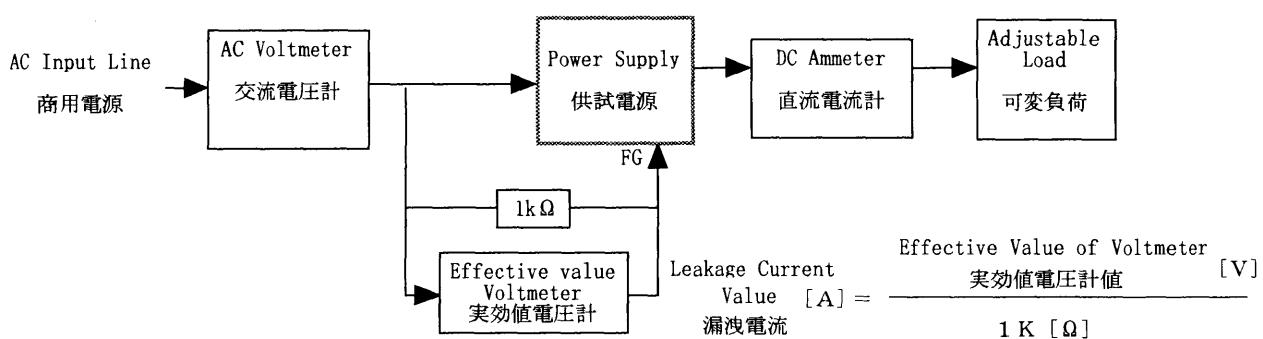
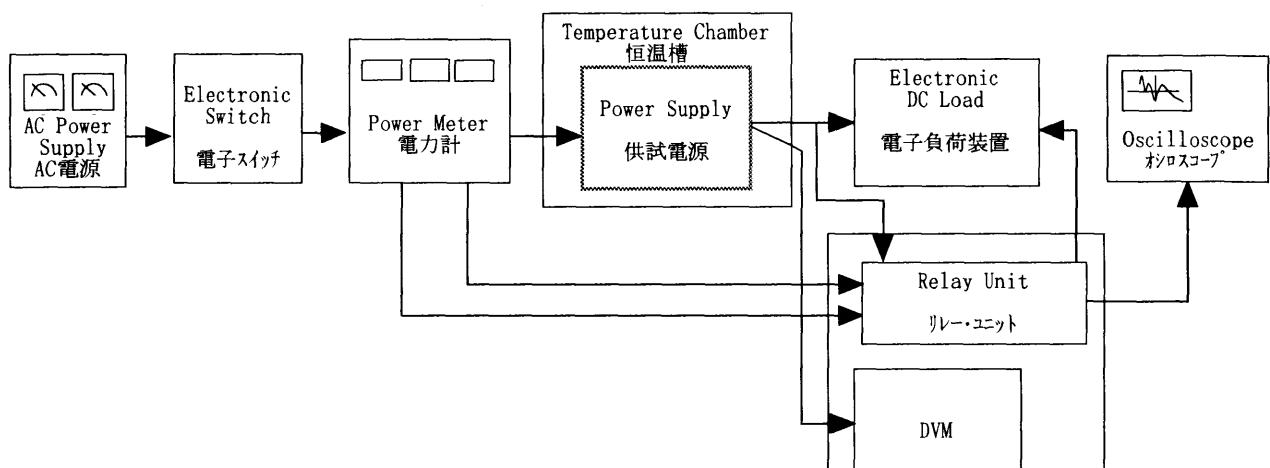


Figure B (DENTORI)

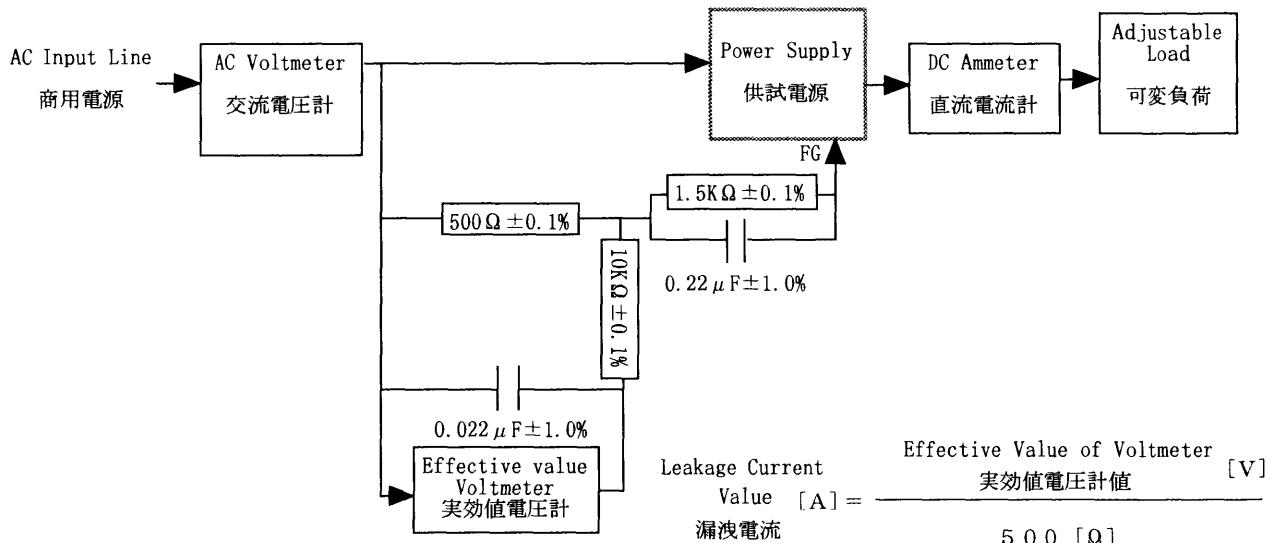


Figure B (IEC 60950)

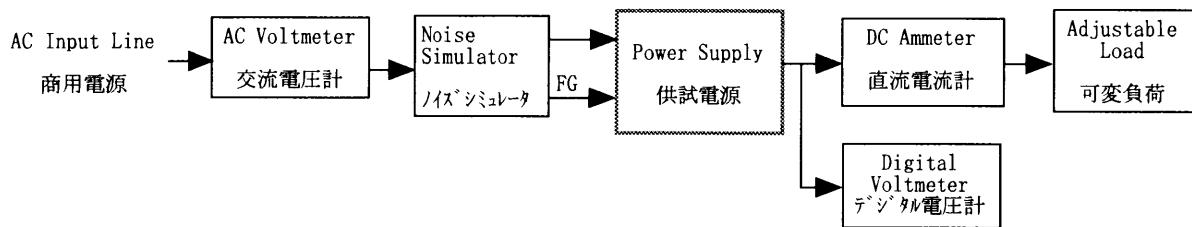


Figure C

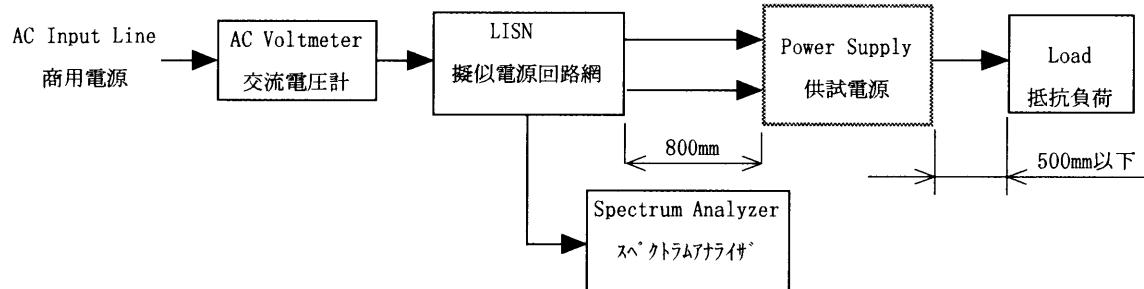


Figure D

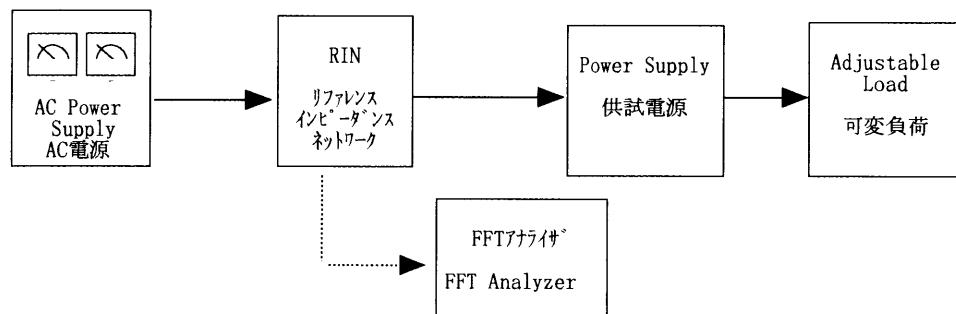


Figure E