

COSEL

**TEST DATA OF R25A-15
(100V INPUT)**

Regulated DC Power Supply

Date : Nov. 4. 1998

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コーセル株式会社

COSEL CO., LTD.



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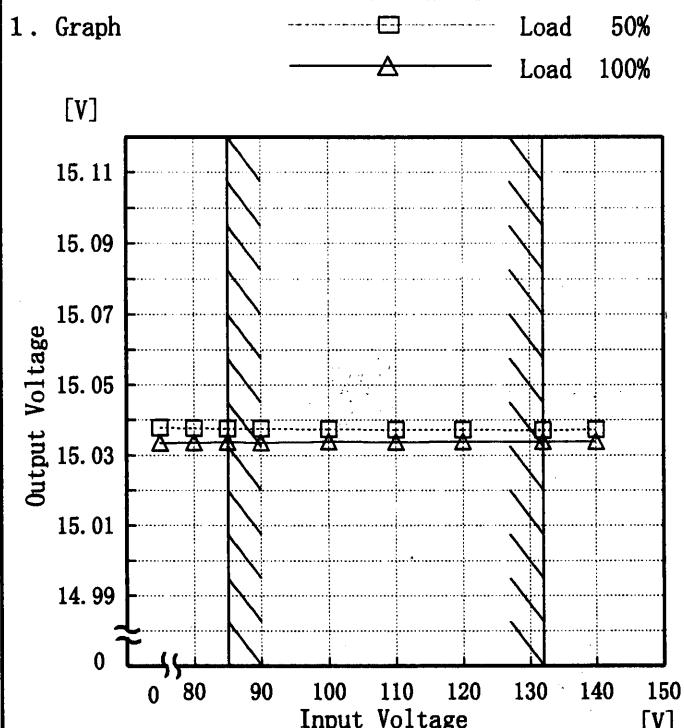
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Model	R25A-15
Item	Line Regulation 静的入力変動
Object	+15.0V 1.70A

Temperature 25°C
Testing Circuitry Figure A



2. Values

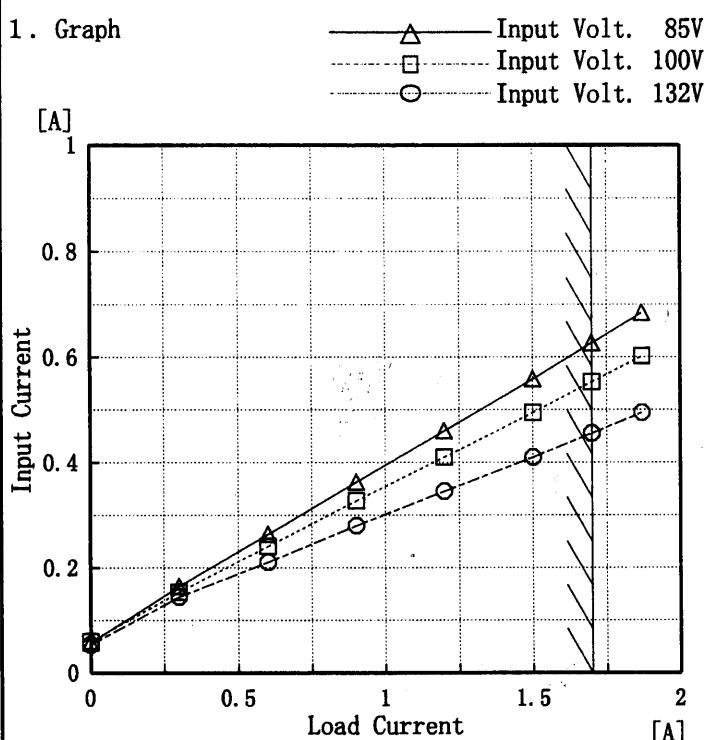
Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
75	15.038	15.034
80	15.038	15.034
85	15.038	15.034
90	15.038	15.034
100	15.037	15.034
110	15.037	15.034
120	15.037	15.034
132	15.037	15.034
140	15.037	15.034

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。

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Model	R25A-15
Item	Input Current (by Load Current) 入力電流 (負荷特性)
Output	—



Temperature 25°C
Testing Circuitry Figure A

2. Values

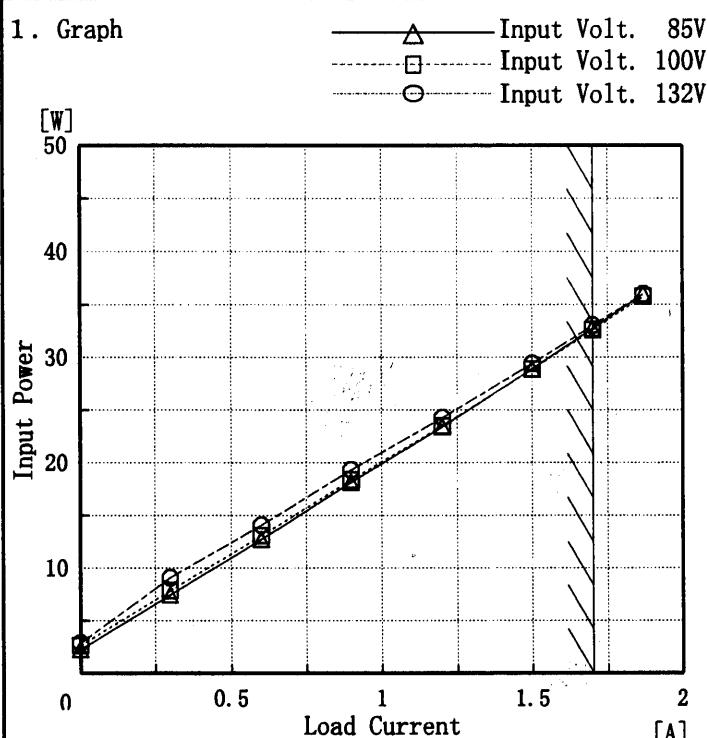
Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.057	0.059	0.053
0.30	0.164	0.154	0.144
0.60	0.264	0.241	0.211
0.90	0.363	0.328	0.280
1.20	0.460	0.410	0.345
1.50	0.558	0.495	0.410
1.70	0.627	0.553	0.456
1.87	0.684	0.602	0.494
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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	R25A-15
Item	Input Power (by Load Current) 入力電力 (負荷特性)
Output	_____



Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	2.19	2.61	2.85
0.30	7.47	7.86	9.09
0.60	12.73	13.08	14.06
0.90	18.13	18.38	19.32
1.20	23.41	23.52	24.29
1.50	28.91	28.86	29.40
1.70	32.75	32.60	33.00
1.87	35.99	35.73	36.00
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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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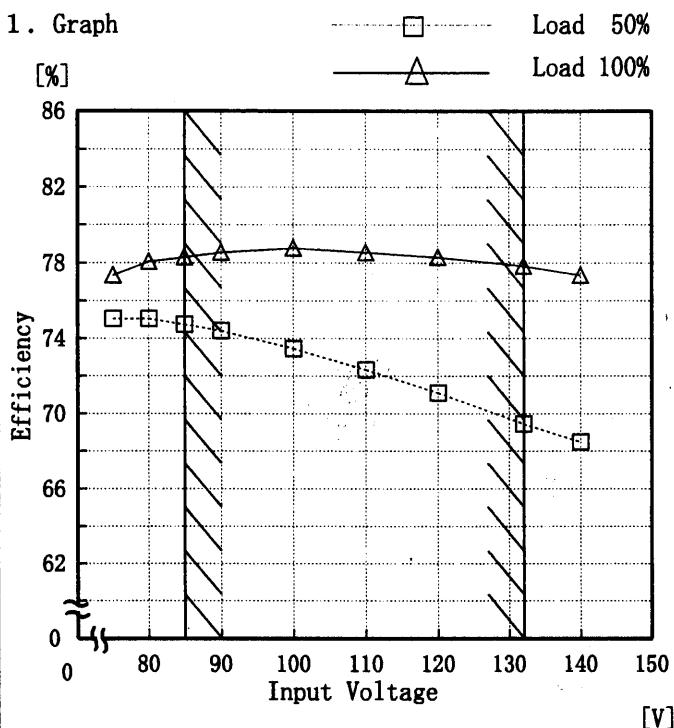
Model R25A-15

Item Efficiency (by Input Voltage)
効率(入力電圧特性)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Input Voltage [V]	Load 50%	Load 100%
	Efficiency [%]	Efficiency [%]
75	75.1	77.4
80	75.1	78.1
85	74.8	78.3
90	74.4	78.5
100	73.5	78.8
110	72.4	78.6
120	71.1	78.3
132	69.5	77.8
140	68.5	77.4

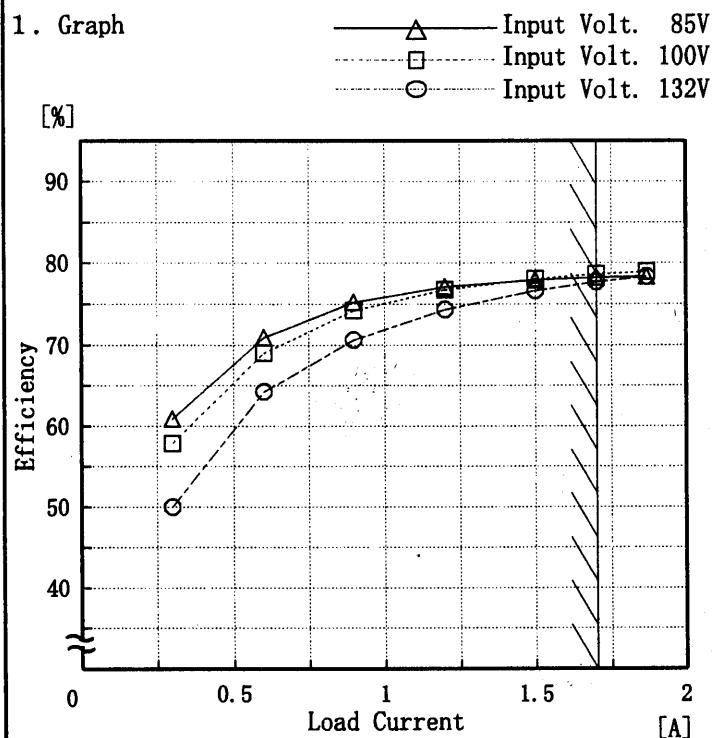
Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

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Model	R25A-15
Item	Efficiency (by Load Current) 効率 (負荷電流特性)
Output	—

Temperature 25°C
Testing Circuitry Figure A



2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.30	60.8	57.8	49.9
0.60	70.9	69.0	64.2
0.90	75.2	74.2	70.6
1.20	77.1	76.7	74.3
1.50	78.0	78.1	76.6
1.70	78.2	78.6	77.7
1.87	78.4	78.9	78.3
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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。

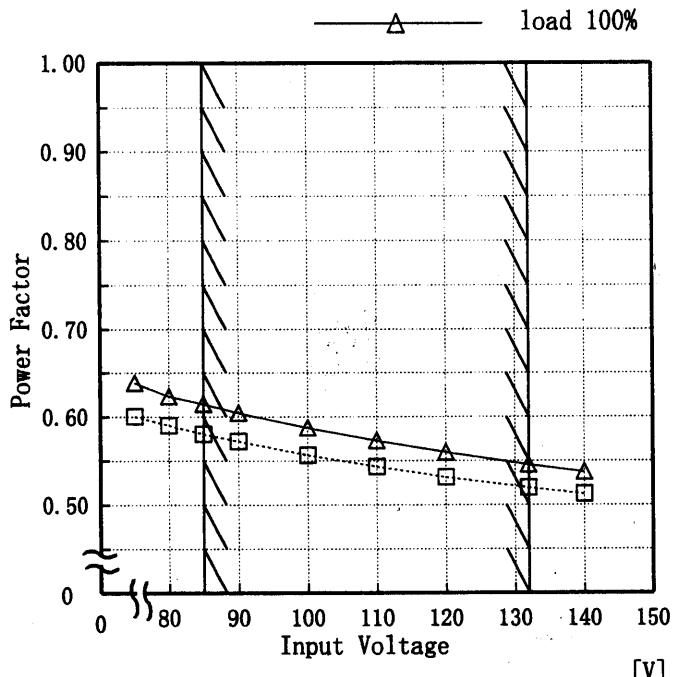
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Model R25A-15

Item Power Factor (by Input Voltage)
力率(入力電圧特性)

Object _____

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。

Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	load 50%	load 100%
	Power Factor	Power Factor
75	0.60	0.64
80	0.59	0.62
85	0.58	0.61
90	0.57	0.60
100	0.56	0.59
110	0.54	0.57
120	0.53	0.56
132	0.52	0.55
140	0.51	0.54

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Model	R25A-15	Temperature 25°C Testing Circuitry Figure A																																						
Item	Power Factor (by Load Current) 力率 (負荷電流特性)																																							
Output	—	2. Values																																						
1. Graph	<p>—△— Input Volt. 85V —□— Input Volt. 100V —○— Input Volt. 132V</p> <table border="1"> <caption>Data points estimated from Figure A graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>Power Factor (85V)</th> <th>Power Factor (100V)</th> <th>Power Factor (132V)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.45</td><td>0.44</td><td>0.41</td></tr> <tr><td>0.30</td><td>0.53</td><td>0.51</td><td>0.48</td></tr> <tr><td>0.60</td><td>0.57</td><td>0.54</td><td>0.51</td></tr> <tr><td>0.90</td><td>0.59</td><td>0.56</td><td>0.52</td></tr> <tr><td>1.20</td><td>0.60</td><td>0.57</td><td>0.53</td></tr> <tr><td>1.50</td><td>0.61</td><td>0.58</td><td>0.54</td></tr> <tr><td>1.70</td><td>0.61</td><td>0.59</td><td>0.55</td></tr> <tr><td>1.87</td><td>0.62</td><td>0.59</td><td>0.55</td></tr> </tbody> </table>	Load Current [A]	Power Factor (85V)	Power Factor (100V)	Power Factor (132V)	0.00	0.45	0.44	0.41	0.30	0.53	0.51	0.48	0.60	0.57	0.54	0.51	0.90	0.59	0.56	0.52	1.20	0.60	0.57	0.53	1.50	0.61	0.58	0.54	1.70	0.61	0.59	0.55	1.87	0.62	0.59	0.55			
Load Current [A]	Power Factor (85V)	Power Factor (100V)	Power Factor (132V)																																					
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1.87	0.62	0.59	0.55																																					

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。

Load Current [A]	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.45	0.44	0.41
0.30	0.53	0.51	0.48
0.60	0.57	0.54	0.51
0.90	0.59	0.56	0.52
1.20	0.60	0.57	0.53
1.50	0.61	0.58	0.54
1.70	0.61	0.59	0.55
1.87	0.62	0.59	0.55
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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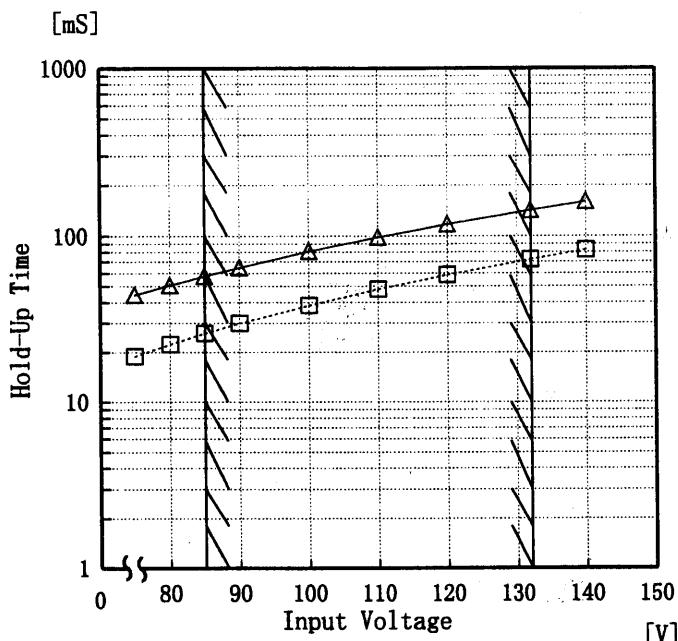
Model R25A-15

Item Hold-Up Time 出力保持時間

Object +15.0V 1.70A

1. Graph

—△— Load 50%
 - - - □— Load 100%


 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Hold-Up Time [mS]	Hold-Up Time [mS]
75	44	19
80	51	22
85	58	26
90	65	30
100	81	38
110	98	48
120	118	59
132	143	73
140	161	83

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

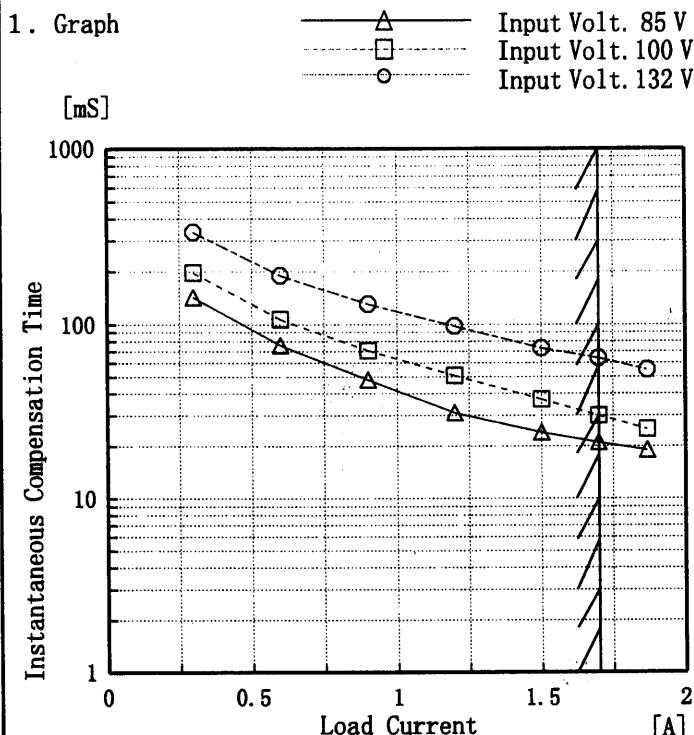
Note: Slanted line shows the range of the rated input voltage.

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。

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Model	R25A-15
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+15.0V 1.70A



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。

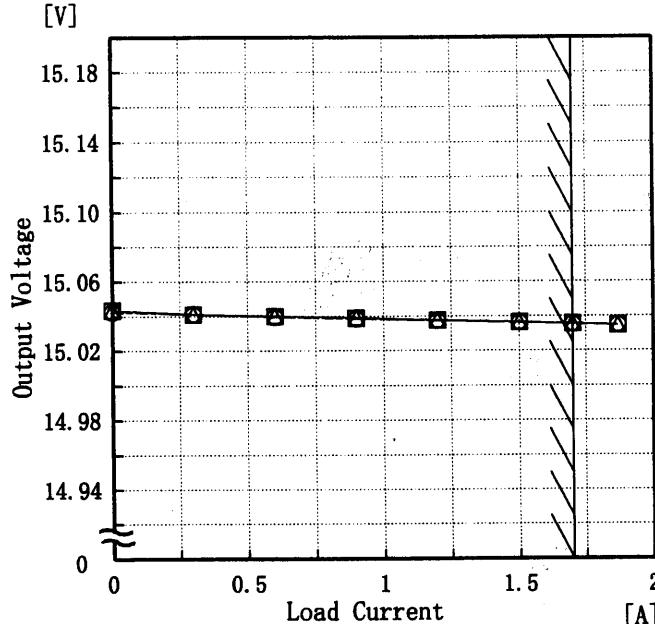
(注) 斜線は定格負荷電流範囲を示す。

Testing Circuitry Figure A

2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
0.00	—	—	—
0.30	143	198	337
0.60	76	107	191
0.90	48	71	131
1.20	31	51	98
1.50	24	37	73
1.70	21	30	64
1.87	19	25	55
—	—	—	—
—	—	—	—
—	—	—	—

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Model	R25A-15
Item	Load Regulation 靜的負荷變動
Object	+15.0V 1.70A
1. Graph	
<p style="text-align: center;"> △ Input Volt. 85V □ Input Volt. 100V ○ Input Volt. 132V </p> 	
<p>Note: Slanted line shows the range of the rated load current.</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p>	

Temperature 25°C
 Testing Circuitry Figure A

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]
0.00	15.044	15.044	15.043
0.30	15.041	15.041	15.041
0.60	15.040	15.040	15.040
0.90	15.039	15.039	15.038
1.20	15.038	15.038	15.037
1.50	15.037	15.036	15.036
1.70	15.036	15.035	15.036
1.87	15.035	15.035	15.035
—	—	—	—
—	—	—	—

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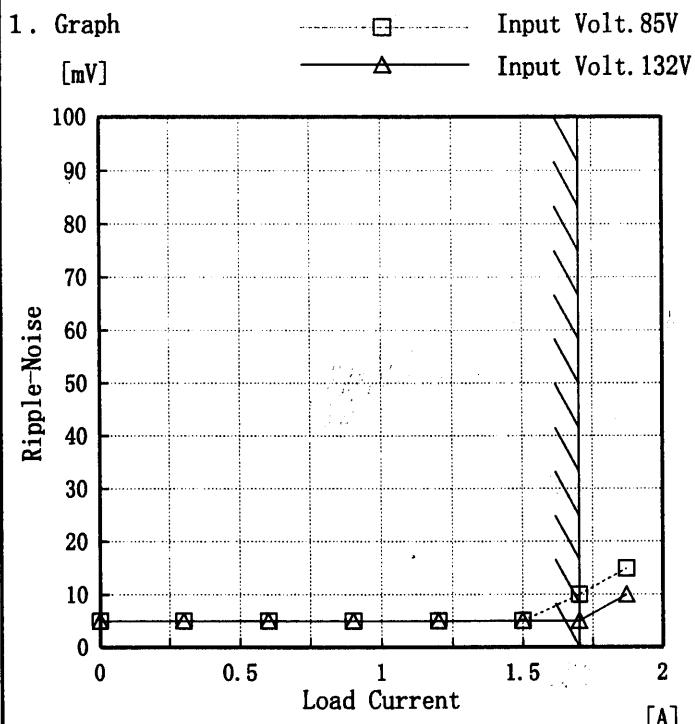
Model	R25A-15	Temperature Testing Circuitry	25°C Figure A																																				
Item	Ripple Voltage (by Load Current) リップル電圧(負荷電流特性)																																						
Object	+15.0V 1.70A	2. Values																																					
1. Graph	<p style="text-align: center;">□ Input Volt. 85V [mV] △ Input Volt. 132V</p> <table border="1"> <caption>Data points estimated from Figure A graph</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>5</td><td>5</td></tr> <tr><td>0.3</td><td>5</td><td>5</td></tr> <tr><td>0.6</td><td>5</td><td>5</td></tr> <tr><td>0.9</td><td>5</td><td>5</td></tr> <tr><td>1.2</td><td>5</td><td>5</td></tr> <tr><td>1.5</td><td>5</td><td>5</td></tr> <tr><td>1.7</td><td>10</td><td>5</td></tr> <tr><td>1.9</td><td>15</td><td>10</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>			Load Current [A]	Ripple Output Volt. 85V [mV]	Ripple Output Volt. 132V [mV]	0.0	5	5	0.3	5	5	0.6	5	5	0.9	5	5	1.2	5	5	1.5	5	5	1.7	10	5	1.9	15	10	—	—	—	—	—	—	—	—	—
Load Current [A]	Ripple Output Volt. 85V [mV]	Ripple Output Volt. 132V [mV]																																					
0.0	5	5																																					
0.3	5	5																																					
0.6	5	5																																					
0.9	5	5																																					
1.2	5	5																																					
1.5	5	5																																					
1.7	10	5																																					
1.9	15	10																																					
—	—	—																																					
—	—	—																																					
—	—	—																																					
			Load Current	Input Volt. 85 [V]	Input Volt. 132 [V]																																		
			Load Current [A]	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]																																		
			0.0	5	5																																		
			0.3	5	5																																		
			0.6	5	5																																		
			0.9	5	5																																		
			1.2	5	5																																		
			1.5	5	5																																		
			1.7	10	5																																		
			1.9	15	10																																		
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| Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current. リップル電圧は、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 T2: Due to Switching | | | |
| Fig. Complex Ripple Wave Form 図 リップル波形詳細図 | | | |

COSEL

Model	R25A-15
Item	Ripple-Noise リップルノイズ
Object	+15.0V 1.70A

Temperature 25°C
Testing Circuitry Figure A



2. Values

Load current [A]	Input Volt. 85 [V]		Input Volt. 132 [V]	
	Ripple-Noise [mV]	Ripple-Noise [mV]	Ripple-Noise [mV]	Ripple-Noise [mV]
0.0	5	5	5	5
0.3	5	5	5	5
0.6	5	5	5	5
0.9	5	5	5	5
1.2	5	5	5	5
1.5	5	5	5	5
1.7	10	5	5	5
1.9	15	10	10	5
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—

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

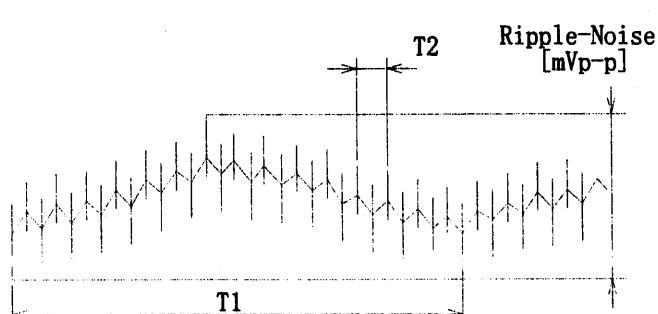


Fig. Complex Ripple Wave Form

図 リップル波形詳細図

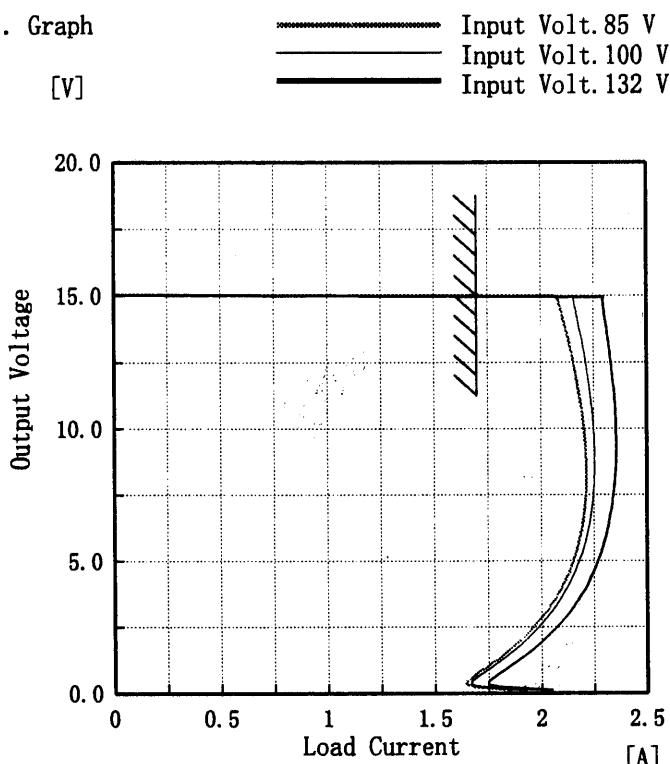
COSEL

Model R25A-15

Item Overcurrent Protection
過電流保護

Object +15.0V 1.70A

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。

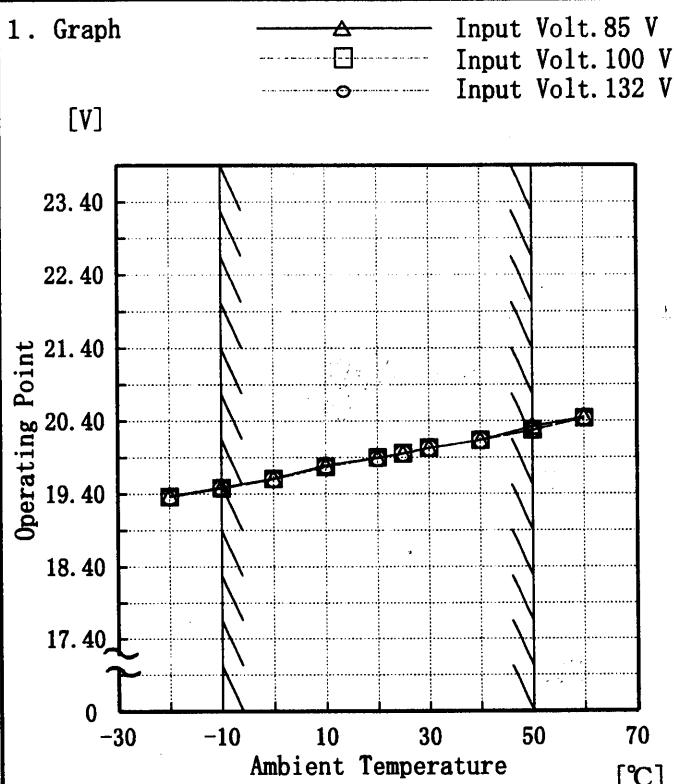
Temperature 25°C
Testing Circuitry Figure A

2. Values

Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Load Current [A]	Load Current [A]	Load Current [A]
15.00	2.08	2.16	2.28
14.25	2.10	2.17	2.30
13.50	2.12	2.19	2.31
12.00	2.16	2.22	2.34
10.50	2.19	2.24	2.35
9.00	2.21	2.25	2.36
7.50	2.21	2.25	2.34
6.00	2.19	2.22	2.31
4.50	2.13	2.16	2.24
3.00	2.02	2.05	2.14
1.50	1.83	1.87	1.95
0.00	1.86	1.93	2.05

COSEL

Model	R25A-15
Item	Overvoltage Protection 過電圧保護
Object	+15.0V 1.70A



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]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Operating Point [V]		
-20	19.4	19.4	19.4
-10	19.5	19.5	19.5
0	19.6	19.6	19.6
10	19.8	19.8	19.8
20	19.9	19.9	19.9
25	20.0	20.0	20.0
30	20.0	20.0	20.0
40	20.1	20.1	20.1
50	20.3	20.3	20.3
60	20.5	20.4	20.4
—	—	—	—

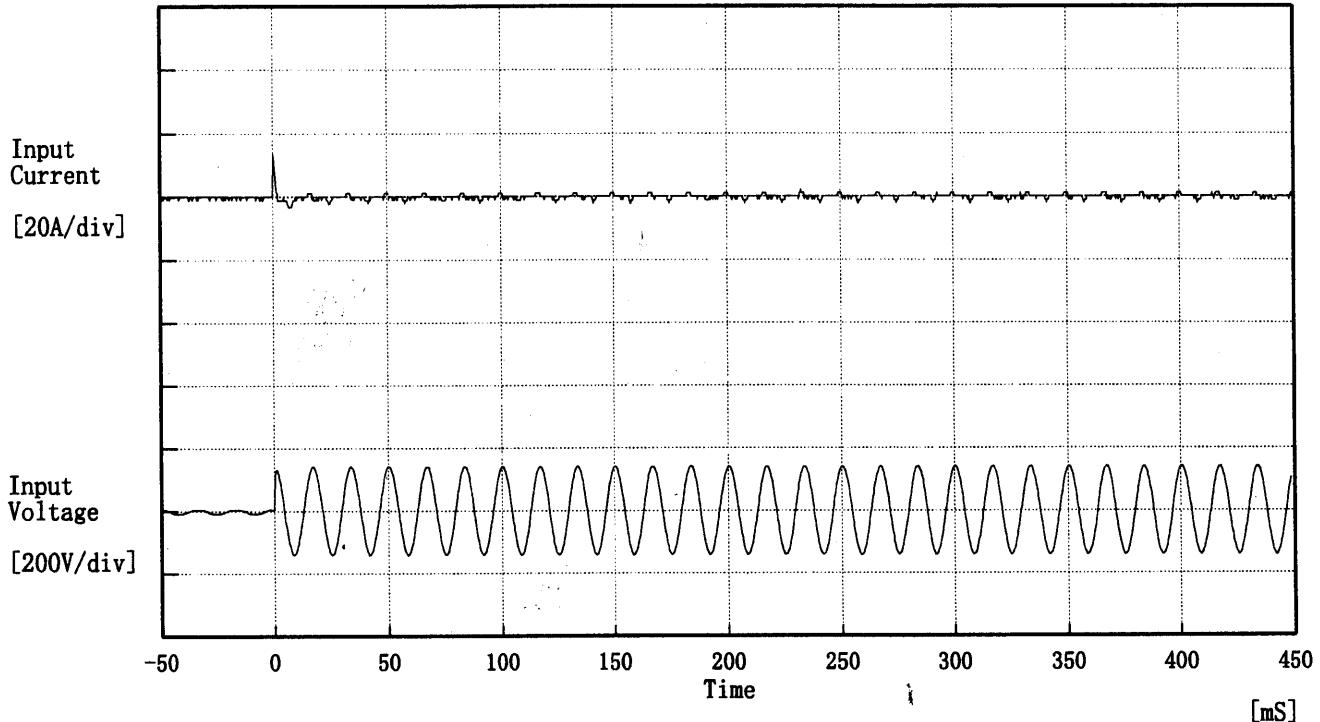
COSEL

Model R25A-15

Item Inrush Current 突入電流

Temperature 25°C
Testing Circuitry Figure A

Object



Input Voltage 100 V

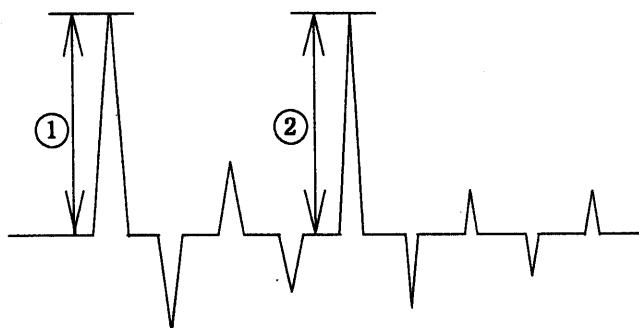
Frequency 60 Hz

Load 100 %

Inrush Current

① 13.48 [A]

② 2.27 [A]

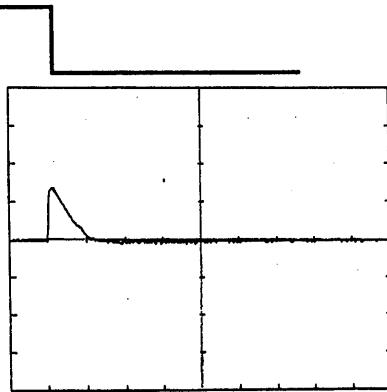
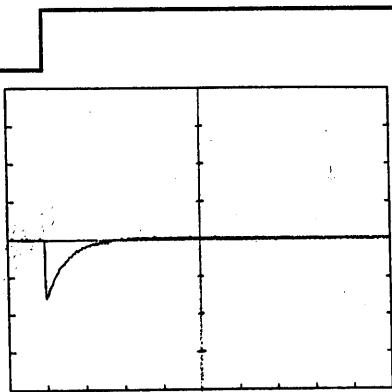
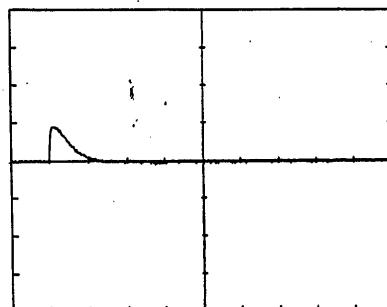
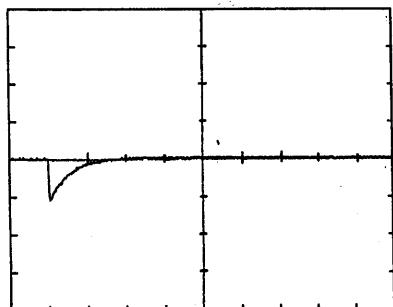


COSEL

Model	R25A-15	Temperature	25°C
Item	Dynamic Load Response 動的負荷變動	Testing Circuitry	Figure A
Object	+15.0V 1.70A		

Input Volt. 100 V

Cycle 1000 mS

Load CurrentLoad 0% ↔
Load 100 %Load 0% ↔
Load 50 %

200 mV/div

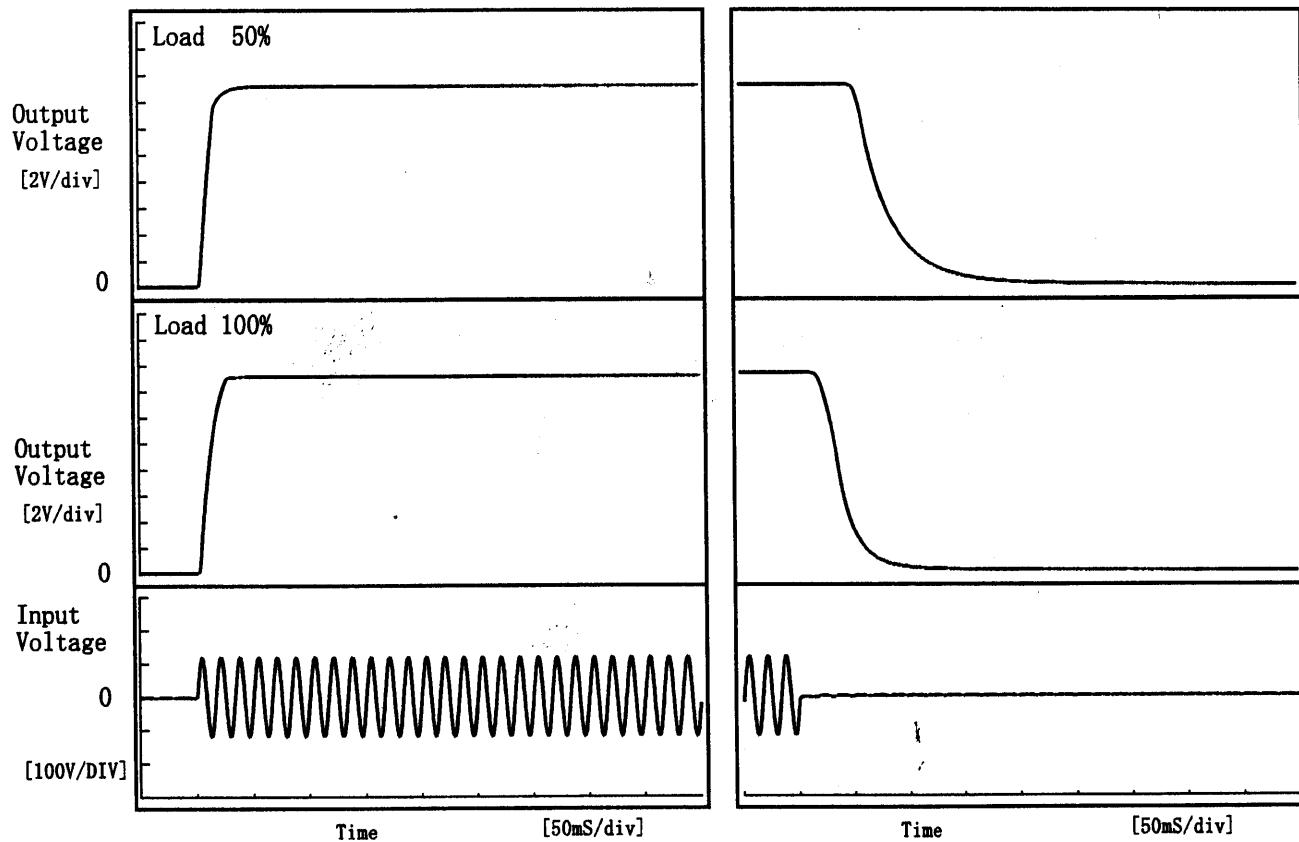
20 mS/div

COSEL

Model	R25A-15
Item	Rise and Fall Time 立上り、立下り時間
Object	+15.0V 1.70A

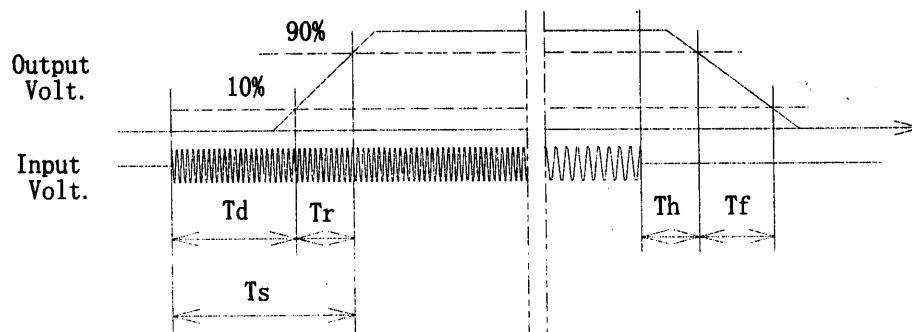
Temperature 25°C
Testing Circuitry Figure A

1. Graph



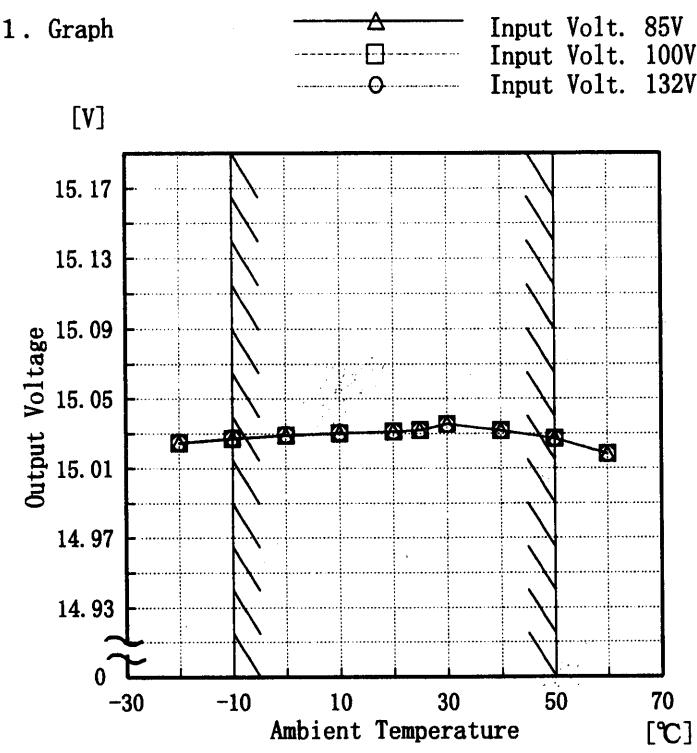
2. Values

Load	Time	T _d	T _r	T _s	T _h	T _f
50 %		4.8	12.0	16.8	57.5	69.3
100 %		4.8	17.3	22.0	25.0	41.3



COSEL

Model	R25A-15
Item	Ambient Temperature Drift 周囲温度変動
Object	+15.0V 1.70A



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

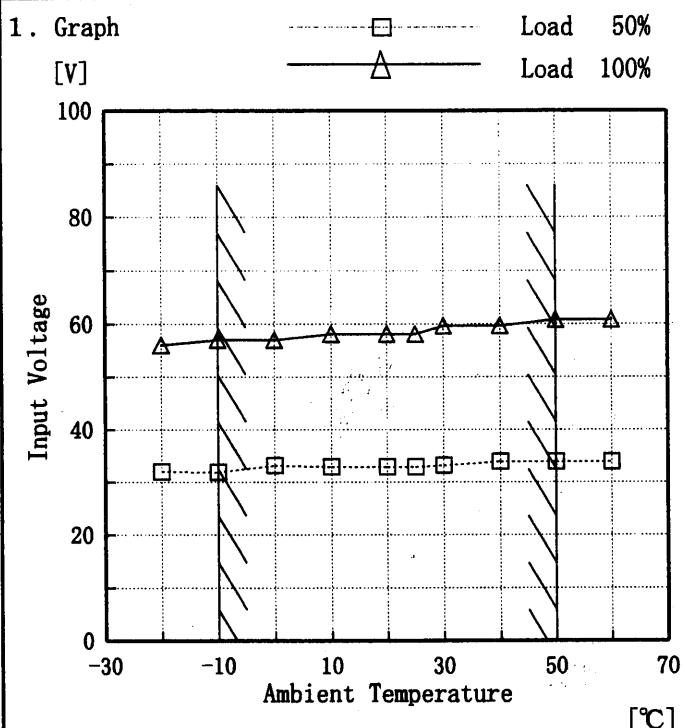
Temperature [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	15.024	15.025	15.025
-10	15.027	15.027	15.028
0	15.029	15.029	15.029
10	15.030	15.030	15.031
20	15.031	15.031	15.031
25	15.032	15.032	15.032
30	15.035	15.036	15.036
40	15.032	15.032	15.032
50	15.027	15.027	15.027
60	15.018	15.019	15.019
—	—	—	—

COSEL

Model R25A-15

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

Object +15.0V 1.70A



Testing Circuitry Figure A

2. Values

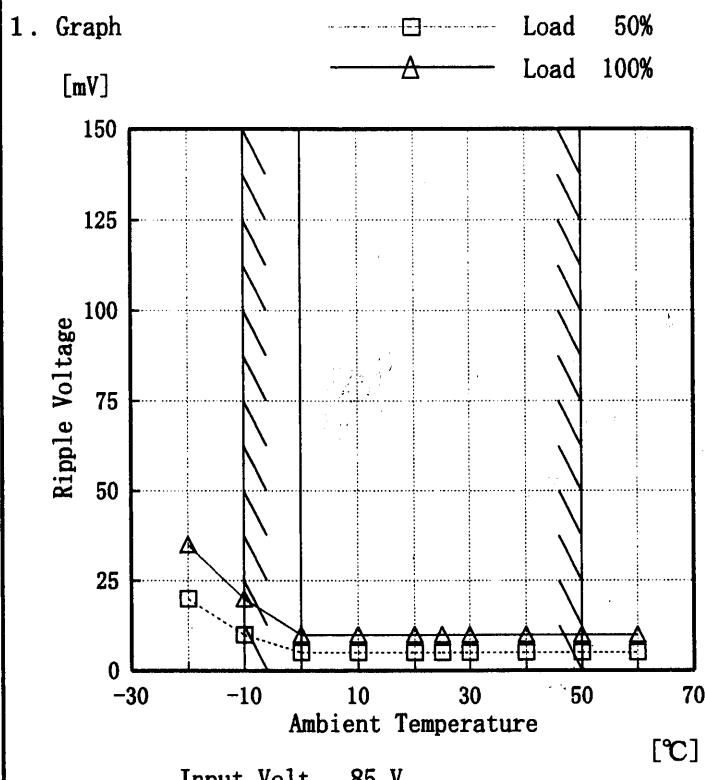
Ambient Temp. [°C]	Load 50%	Load 100%
	Input Volt. [V]	Input Volt. [V]
-20	32	56
-10	32	57
0	33	57
10	33	58
20	33	58
25	33	58
30	33	60
40	34	60
50	34	61
60	34	61
—	—	—

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。

COSSEL

Model	R25A-15
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+15.0V 1.70A



Testing Circuitry Figure A

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	20	35
-10	10	20
0	5	10
10	5	10
20	5	10
25	5	10
30	5	10
40	5	10
50	5	10
60	5	10
—	—	—

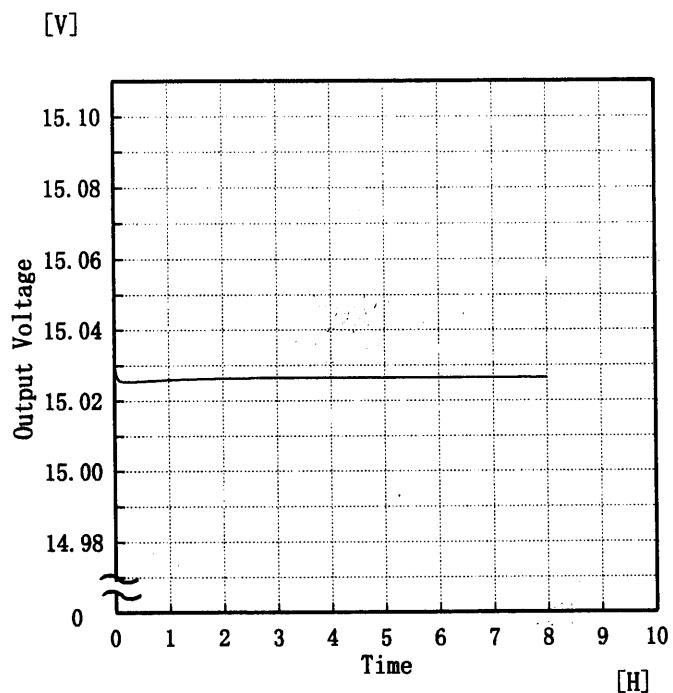
(注)斜線は定格周囲温度範囲を示す。

COSEL

Model	R25A-15
Item	Time Lapse Drift 経時ドリフト
Object	+15.0V 1.70A

Temperature 25 °C
Testing Circuitry Figure A

1. Graph



2. Values

Time since start [H]	Output Voltage [V]
0.0	15.032
0.5	15.026
1.0	15.026
2.0	15.026
3.0	15.026
4.0	15.026
5.0	15.026
6.0	15.026
7.0	15.026
8.0	15.026



Model	R25A-15	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+15.0V 1.70A	

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 : 0.00~1.70 A

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

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

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 -10~50 °C

入力電圧 85~132 V

負荷電流 0.00~1.70 A

$$* \text{ 定電圧精度(変動値)} = \pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$$

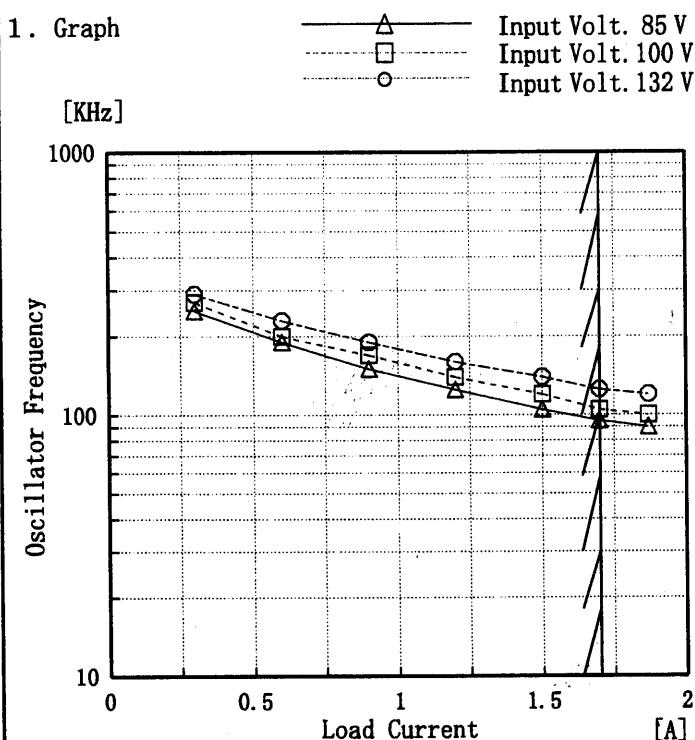
$$* \text{ 定電圧精度(変動率)} = \frac{\text{変動値}}{\text{定格出力電圧}} \times 100$$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	25	132	0.00	15.041	±9	±0.1
Minimum Voltage	50	132	1.70	15.025		

COSEL

Model	R25A-15
Item	Oscillator Frequency 発振周波数
Object	+15.0V 1.70A

Temperature 25°C
Testing Circuitry Figure 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 Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Oscillator Frequency [KHz]		
0.30	250	270	290
0.60	190	200	230
0.90	150	170	190
1.20	125	140	160
1.50	105	120	140
1.70	95	105	125
1.87	90	100	120
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model	R25A-15	Testing Circuitry Figure A
Item	Condensation 結露特性	
Object	+15.0V 1.7A	

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]	15.252	Input Volt.: 100V, Load Current: 1.7A
Line Regulation [mV]	3	Input Volt.: 85~132V, Load Current: 1.7A
Load Regulation [mV]	3	Input Volt.: 100V, Load Current: 0.0~1.7A



Model	R25A-15
Item	Leakage Current 漏洩電流
Object	_____

Testing Circuitry Figure A

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.32	0.40	0.44
(B) UL	0.28	0.32	0.36
(C) CSA	0.28	0.32	0.36

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. 220 [V]	Input Volt. 264 [V]
(D) VDE	—	—	—



Model	R25A-15	Testing Circuitry Figure C
Item	Line Noise Tolerance 入力雑音耐量	
Object	+15.0V 1.70A	

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 regulation
	NORMAL	OK	no regulation
1000	COMMON	OK	no regulation
	NORMAL	OK	no regulation

Conditions

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

COSEL

Model	R25A-15
Item	Conducted Emission 雜音端子電圧
Object	_____

Testing Circuitry

Figure D

1. Graph

Remarks

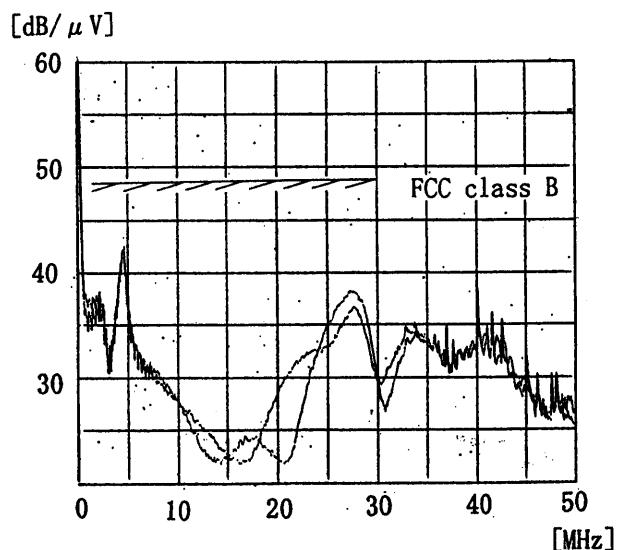
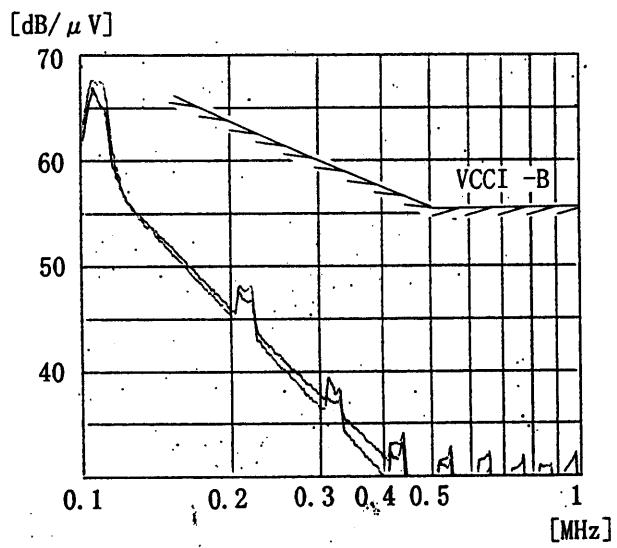
Input Volt. 100 V (VCCI -B)
 120 V (FCC class B)

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 -A		0.15~0.5	79
			0.5~30	73
4	VCCI -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



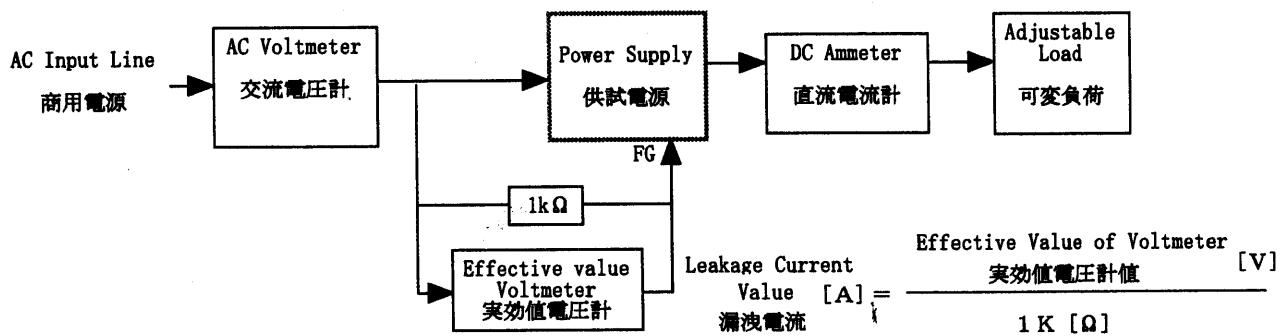
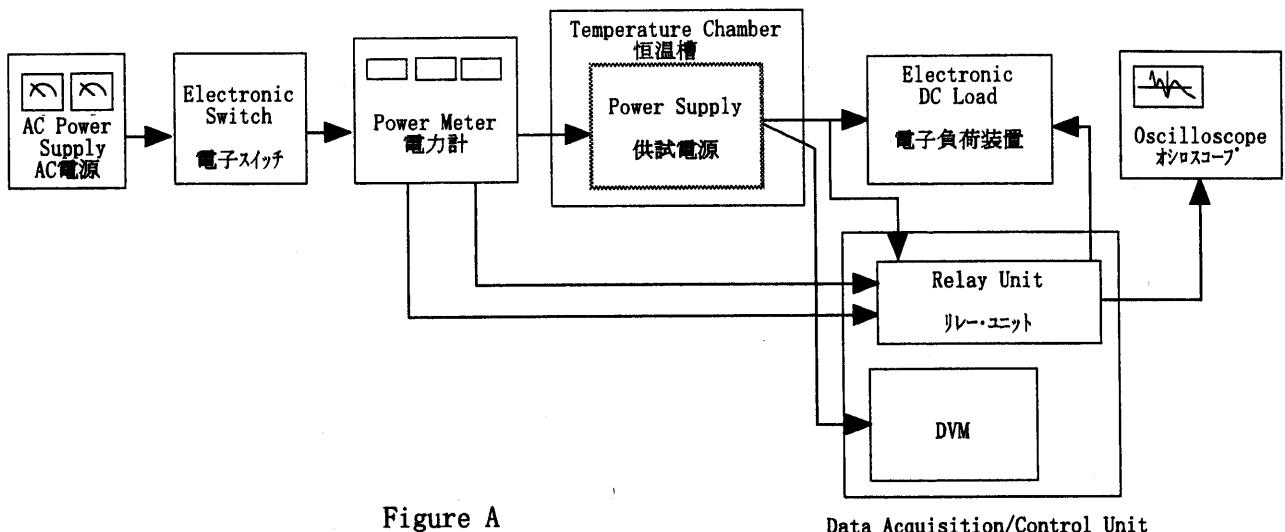


Figure B (DENTORI)

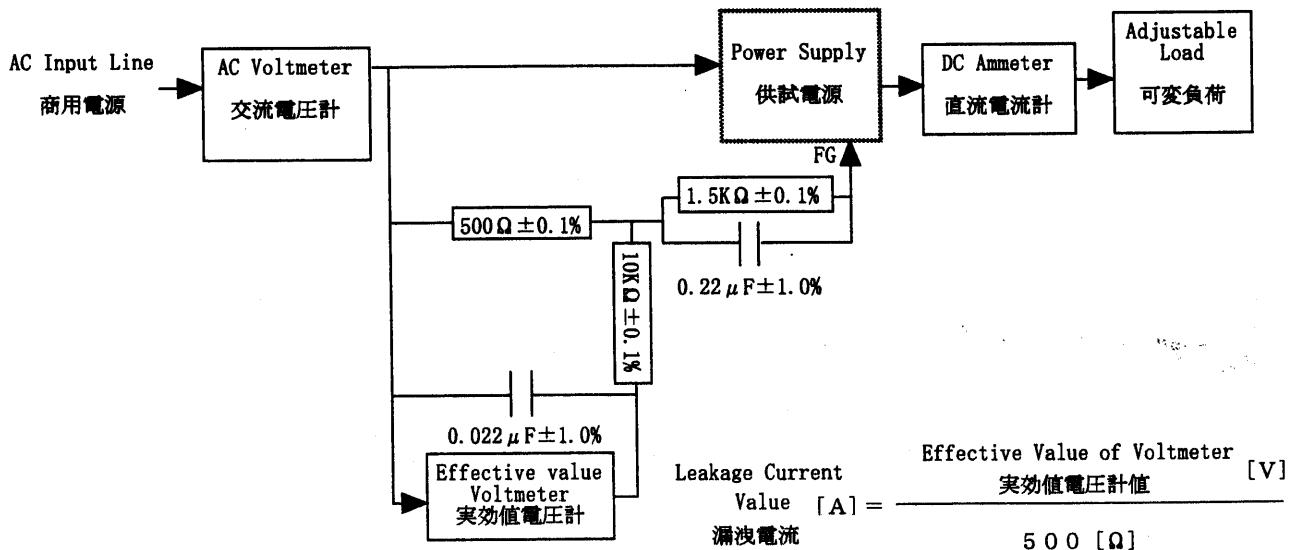


Figure B (UL, CSA, VDE)

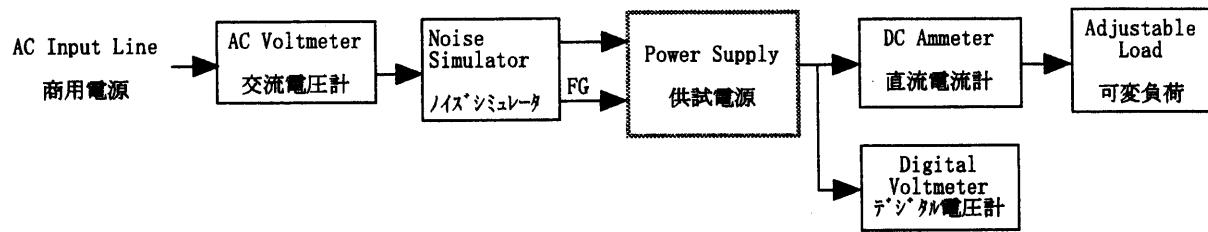


Figure C

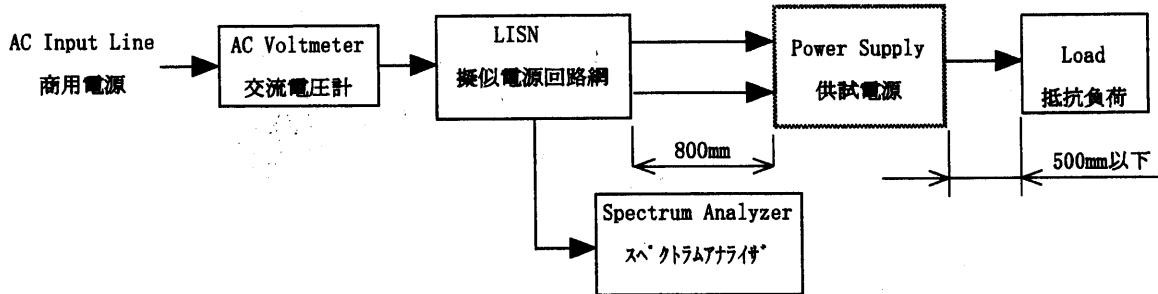


Figure D

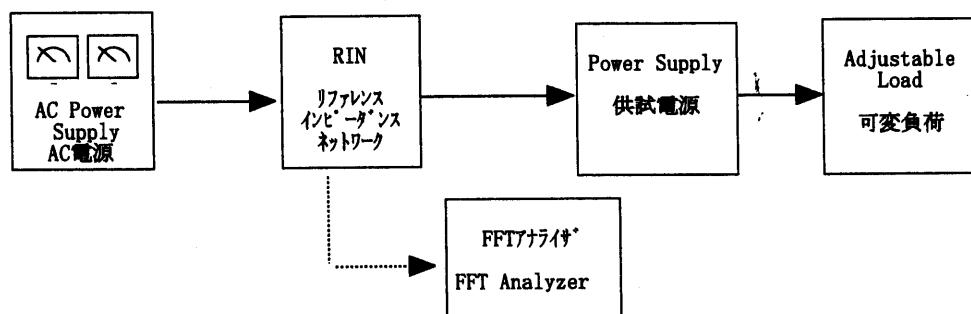


Figure E