

COSEL

TEST DATA OF R10A-24
(100V INPUT)

Regulated DC Power Supply

Date : Apr. 28. 1999

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Design Engineer

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COSEL CO., LTD.



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Model	R10A-24	Temperature Testing Circuitry	25°C Figure A																																
Item	Line Regulation 静的入力変動																																		
Object	+24V 0.5A																																		
1. Graph			2. Values																																
<p style="text-align: center;">□ Load 50% △ Load 100%</p>			<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr><td>75</td><td>24.163</td><td>24.160</td></tr> <tr><td>80</td><td>24.163</td><td>24.161</td></tr> <tr><td>85</td><td>24.163</td><td>24.161</td></tr> <tr><td>90</td><td>24.163</td><td>24.161</td></tr> <tr><td>100</td><td>24.163</td><td>24.161</td></tr> <tr><td>110</td><td>24.162</td><td>24.161</td></tr> <tr><td>120</td><td>24.162</td><td>24.161</td></tr> <tr><td>132</td><td>24.162</td><td>24.161</td></tr> <tr><td>140</td><td>24.162</td><td>24.161</td></tr> </tbody> </table>	Input Voltage [V]	Load 50%	Load 100%	Output Volt. [V]	Output Volt. [V]	75	24.163	24.160	80	24.163	24.161	85	24.163	24.161	90	24.163	24.161	100	24.163	24.161	110	24.162	24.161	120	24.162	24.161	132	24.162	24.161	140	24.162	24.161
Input Voltage [V]	Load 50%	Load 100%																																	
	Output Volt. [V]	Output Volt. [V]																																	
75	24.163	24.160																																	
80	24.163	24.161																																	
85	24.163	24.161																																	
90	24.163	24.161																																	
100	24.163	24.161																																	
110	24.162	24.161																																	
120	24.162	24.161																																	
132	24.162	24.161																																	
140	24.162	24.161																																	

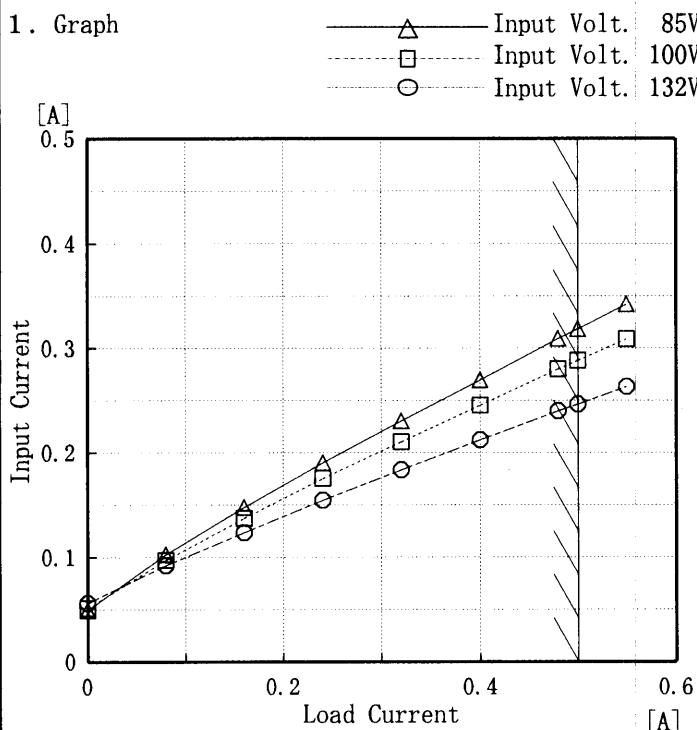
Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

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Model	R10A-24
Item	Input Current (by Load Current) 入力電流（負荷特性）
Output	_____

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。

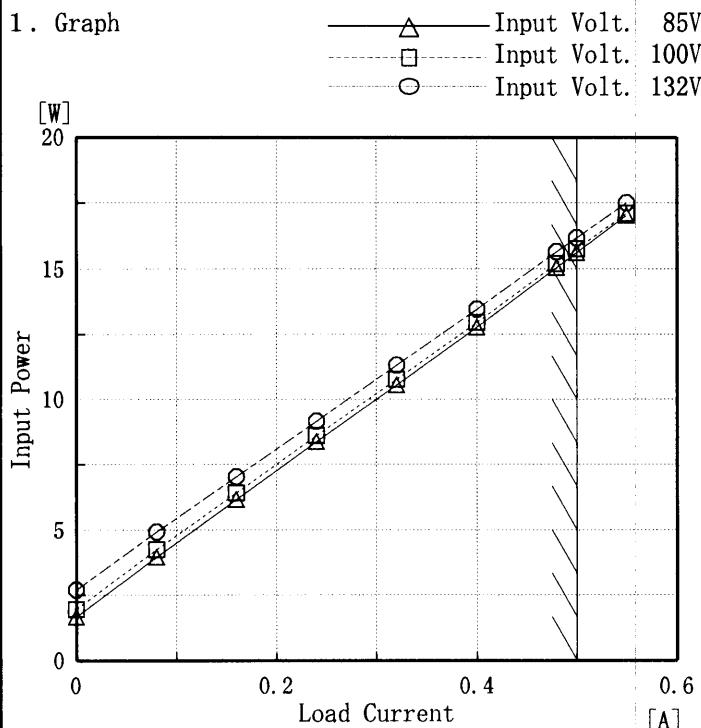
Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.049	0.051	0.056
0.08	0.103	0.097	0.092
0.16	0.148	0.137	0.124
0.24	0.191	0.175	0.155
0.32	0.230	0.211	0.184
0.40	0.270	0.246	0.212
0.48	0.309	0.280	0.240
0.50	0.318	0.288	0.247
0.55	0.342	0.309	0.263
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model	R10A-24
Item	Input Power (by Load Current) 入力電力（負荷特性）
Output	—



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

Load Current [A]	Input Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	1.66	1.95	2.71
0.08	3.97	4.26	4.93
0.16	6.16	6.41	7.03
0.24	8.39	8.61	9.16
0.32	10.55	10.76	11.32
0.40	12.76	12.95	13.46
0.48	15.05	15.20	15.64
0.50	15.61	15.76	16.18
0.55	17.02	17.10	17.51
—	—	—	—
—	—	—	—
—	—	—	—

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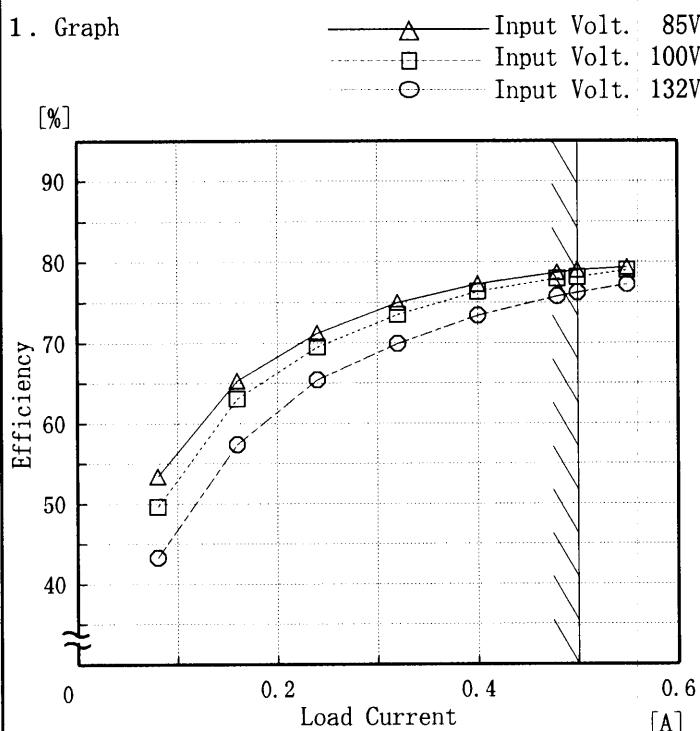
Model	R10A-24	Temperature	25°C																																
Item	Efficiency (by Input Voltage) 効率(入力電圧特性)	Testing Circuitry	Figure A																																
Object	<hr/>																																		
1. Graph	<p style="text-align: center;">□ Load 50% △ Load 100%</p> <p>Efficiency [%]</p> <p>Input Voltage [V]</p>																																		
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th>Efficiency [%]</th> <th>Efficiency [%]</th> </tr> </thead> <tbody> <tr><td>75</td><td>73.1</td><td>79.1</td></tr> <tr><td>80</td><td>72.6</td><td>79.2</td></tr> <tr><td>85</td><td>71.8</td><td>78.8</td></tr> <tr><td>90</td><td>71.3</td><td>78.7</td></tr> <tr><td>100</td><td>69.7</td><td>78.3</td></tr> <tr><td>110</td><td>68.7</td><td>77.7</td></tr> <tr><td>120</td><td>67.5</td><td>76.9</td></tr> <tr><td>132</td><td>65.9</td><td>76.0</td></tr> <tr><td>140</td><td>64.6</td><td>75.4</td></tr> </tbody> </table>			Input Voltage [V]	Load 50%	Load 100%	Efficiency [%]	Efficiency [%]	75	73.1	79.1	80	72.6	79.2	85	71.8	78.8	90	71.3	78.7	100	69.7	78.3	110	68.7	77.7	120	67.5	76.9	132	65.9	76.0	140	64.6	75.4
Input Voltage [V]	Load 50%	Load 100%																																	
	Efficiency [%]	Efficiency [%]																																	
75	73.1	79.1																																	
80	72.6	79.2																																	
85	71.8	78.8																																	
90	71.3	78.7																																	
100	69.7	78.3																																	
110	68.7	77.7																																	
120	67.5	76.9																																	
132	65.9	76.0																																	
140	64.6	75.4																																	
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	R10A-24
Item	Efficiency (by Load Current) 効率(負荷電流特性)
Output	—

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.08	53.4	49.6	43.3
0.16	65.3	63.0	57.4
0.24	71.2	69.5	65.4
0.32	75.0	73.5	69.9
0.40	77.3	76.3	73.4
0.48	78.7	77.9	75.8
0.50	79.0	78.1	76.2
0.55	79.4	79.0	77.3
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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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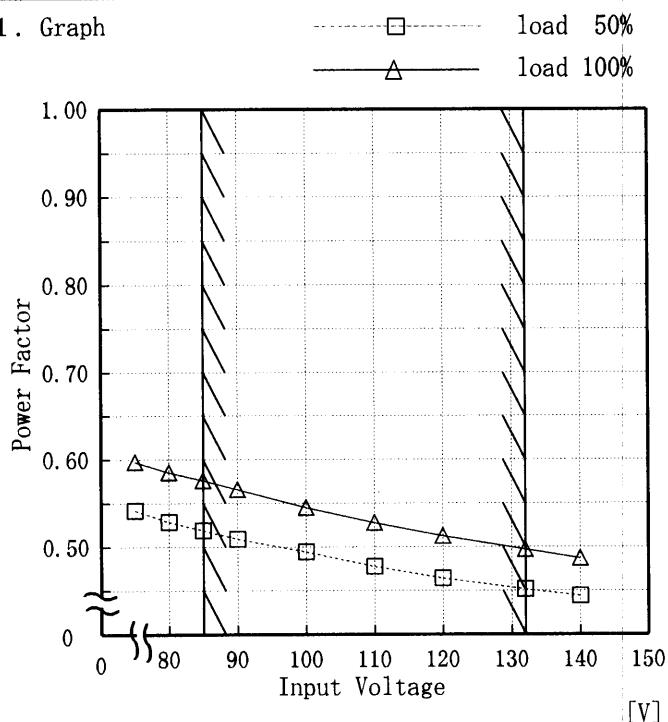
Model R10A-24

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

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph

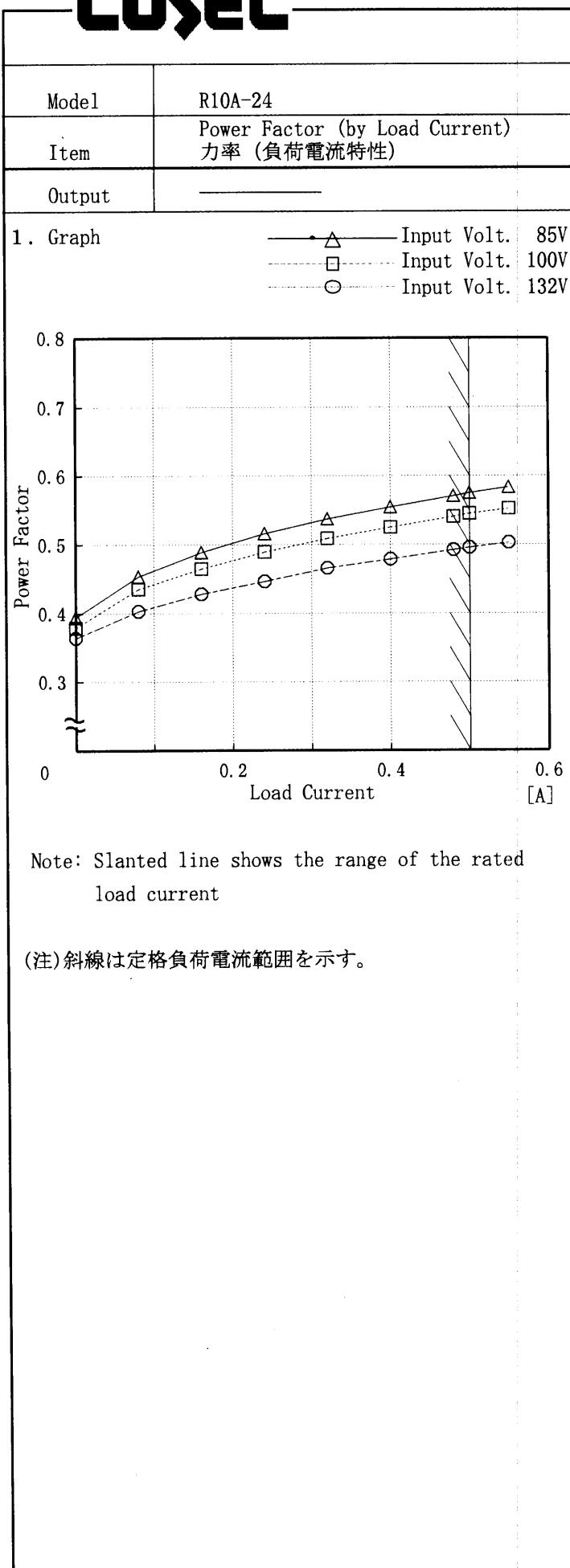


Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	load 50%	load 100%
	Power Factor	Power Factor
75	0.54	0.60
80	0.53	0.59
85	0.52	0.58
90	0.51	0.57
100	0.49	0.55
110	0.48	0.53
120	0.46	0.51
132	0.45	0.50
140	0.44	0.49

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Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.39	0.38	0.36
0.08	0.45	0.44	0.40
0.16	0.49	0.46	0.43
0.24	0.52	0.49	0.45
0.32	0.54	0.51	0.47
0.40	0.55	0.53	0.48
0.48	0.57	0.54	0.49
0.50	0.57	0.55	0.50
0.55	0.58	0.55	0.50
—	—	—	—
—	—	—	—
—	—	—	—

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Model	R10A-24	Temperature Testing Circuitry	25°C Figure A																															
Item	Hold-Up Time 出力保持時間																																	
Object	+24V 0.5A																																	
1. Graph	<p>Legend: —△— Load 50% -□- Load 100%</p>																																	
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th>Hold-Up Time [ms]</th> <th>Hold-Up Time [ms]</th> </tr> </thead> <tbody> <tr><td>75</td><td>30</td><td>7</td></tr> <tr><td>80</td><td>34</td><td>9</td></tr> <tr><td>85</td><td>40</td><td>11</td></tr> <tr><td>90</td><td>44</td><td>14</td></tr> <tr><td>100</td><td>55</td><td>20</td></tr> <tr><td>110</td><td>69</td><td>27</td></tr> <tr><td>120</td><td>82</td><td>35</td></tr> <tr><td>132</td><td>100</td><td>45</td></tr> <tr><td>140</td><td>112</td><td>52</td></tr> </tbody> </table>		Input Voltage [V]	Load 50%	Load 100%	Hold-Up Time [ms]	Hold-Up Time [ms]	75	30	7	80	34	9	85	40	11	90	44	14	100	55	20	110	69	27	120	82	35	132	100	45	140	112	52
Input Voltage [V]	Load 50%	Load 100%																																
	Hold-Up Time [ms]	Hold-Up Time [ms]																																
75	30	7																																
80	34	9																																
85	40	11																																
90	44	14																																
100	55	20																																
110	69	27																																
120	82	35																																
132	100	45																																
140	112	52																																

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

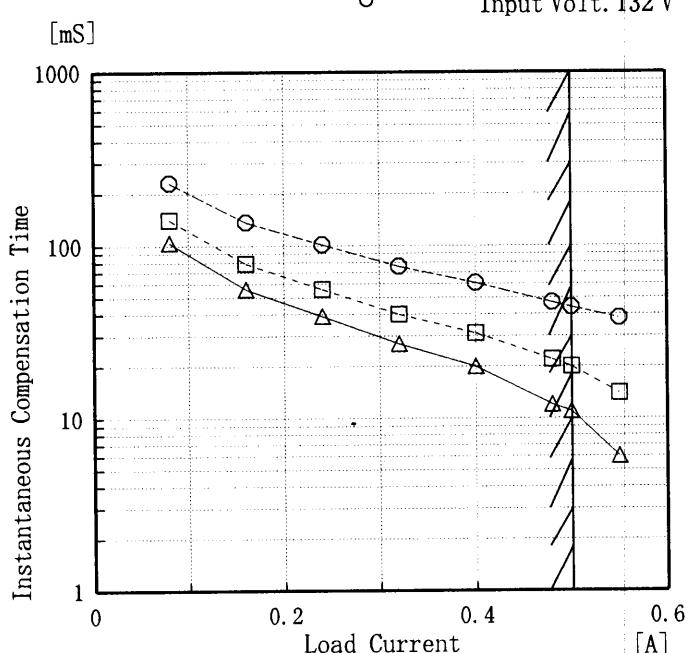
Note: Slanted line shows the range of the rated input voltage.

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	R10A-24	Temperature	25°C
Item	Instantaneous Interruption Compensation 瞬時停電保障	Testing Circuitry	Figure A
Object	+24V 0.5A		
1. Graph		2. Values	
		Load Current [A]	Input Volt. 85[V] Input Volt. 100[V] Input Volt. 132[V]
			Time [mS]
		0.00	— — —
		0.08	104 141 232
		0.16	56 79 137
		0.24	39 56 102
		0.32	27 40 76
		0.40	20 31 61
		0.48	12 22 47
		0.50	11 20 44
		0.55	6 14 38
		—	— — —
		—	— — —



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。

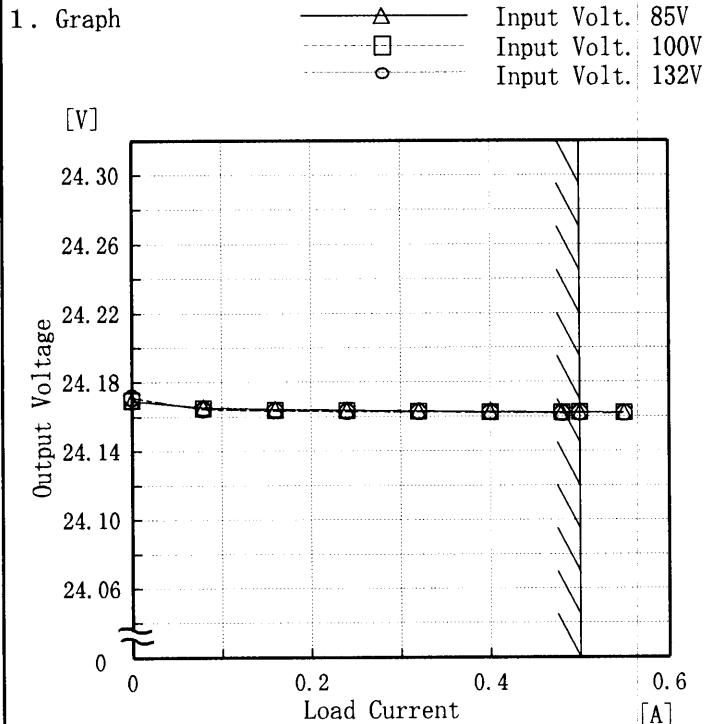
(注)斜線は定格負荷電流範囲を示す。

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Model R10A-24

Item Load Regulation 靜的負荷変動

Object +24V 0.5A



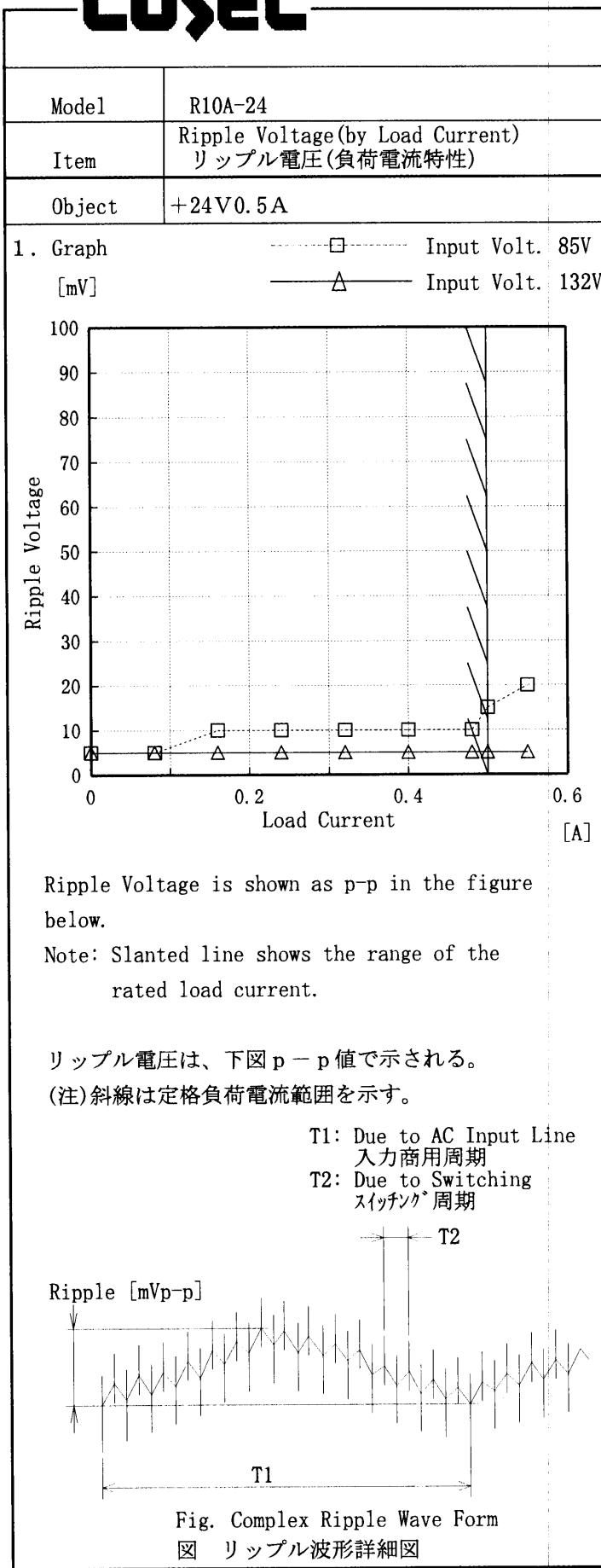
Note: Slanted line shows the range of the rated load current.

(注)斜線は定格負荷電流範囲を示す。

Temperature 25°C
Testing Circuitry Figure A

2. Values

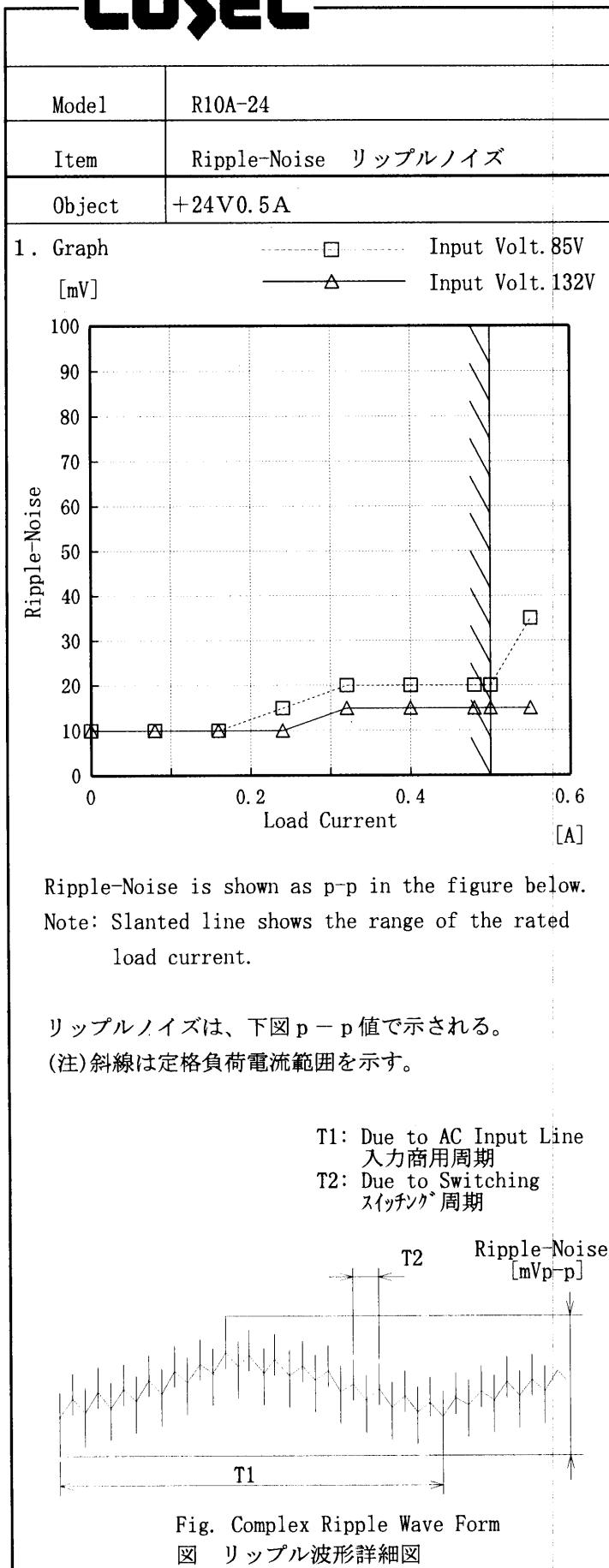
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
0.00	24.169	24.170	24.171
0.08	24.165	24.165	24.164
0.16	24.164	24.164	24.163
0.24	24.164	24.164	24.163
0.32	24.163	24.163	24.163
0.40	24.163	24.163	24.162
0.48	24.162	24.162	24.162
0.50	24.162	24.162	24.162
0.55	24.162	24.162	24.162
—	—	—	—

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Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.00	5	5
0.08	5	5
0.16	10	5
0.24	10	5
0.32	10	5
0.40	10	5
0.48	10	5
0.50	15	5
0.55	20	5
—	—	—
—	—	—

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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]
0.00	10	10
0.08	10	10
0.16	10	10
0.24	15	10
0.32	20	15
0.40	20	15
0.48	20	15
0.50	20	15
0.55	35	15
—	—	—
—	—	—

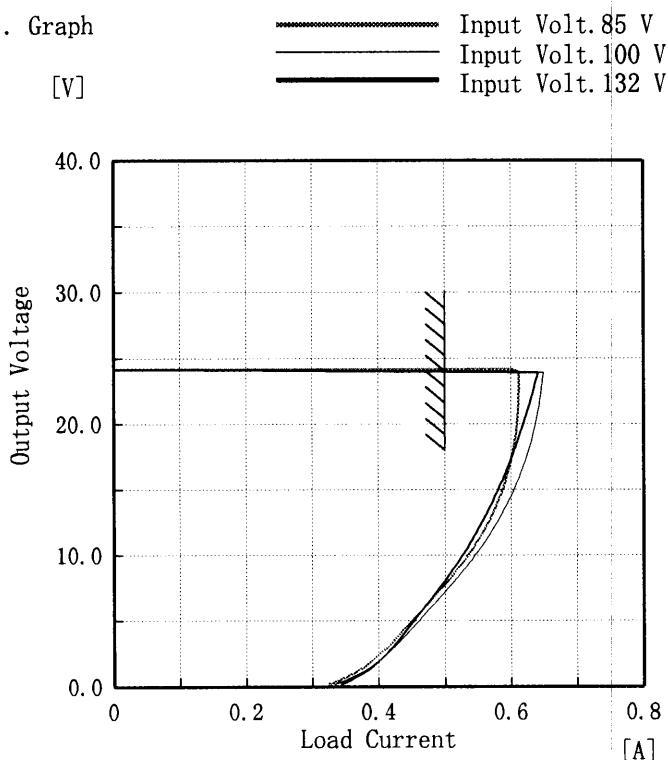
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Model R10A-24

Item Overcurrent Protection
過電流保護

Object +24V 0.5A

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]
24.00	0.61	0.65	0.64
22.80	0.61	0.65	0.64
21.60	0.61	0.64	0.63
19.20	0.61	0.63	0.61
16.80	0.60	0.62	0.60
14.40	0.58	0.60	0.58
12.00	0.56	0.57	0.55
9.60	0.53	0.54	0.52
7.20	0.49	0.50	0.49
4.80	0.45	0.46	0.45
2.40	0.40	0.41	0.41
0.00	0.32	0.33	0.34

COSEL

Model R10A-24

Item Inrush Current 突入電流

Object

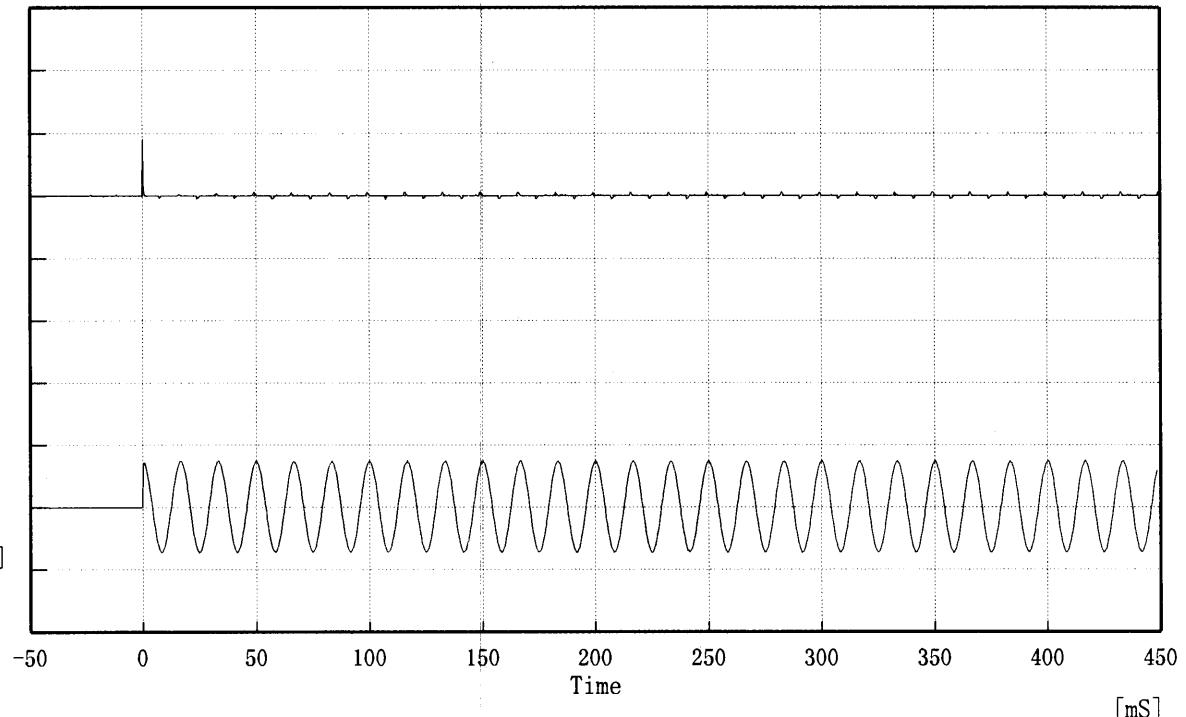
Temperature 25°C
Testing Circuitry Figure A

Input Current

[20A/div]

Input Voltage

[200V/div]



Input Voltage 100 V

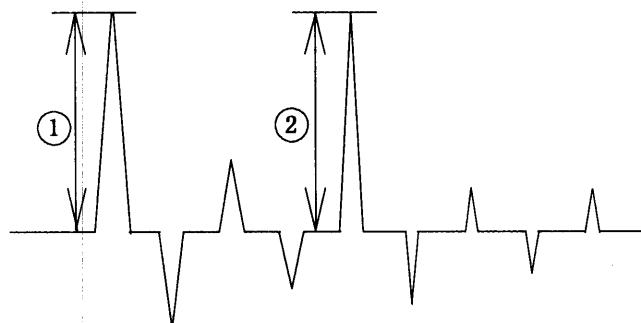
Frequency 60 Hz

Load 100 %

Inrush Current

① 18.00 [A]

② 1.20 [A]

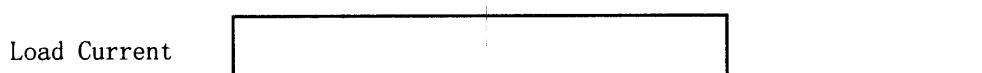


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Model	R10A-24	Temperature	25°C
Item	Dynamic Load Response 動的負荷變動	Testing Circuitry	Figure A
Object	+24V 0.5A		

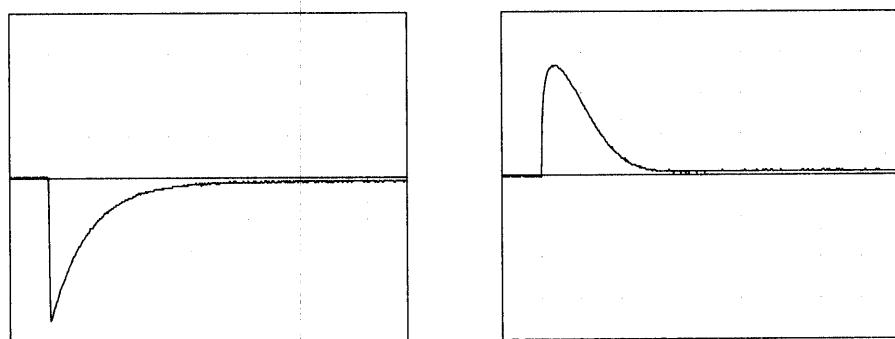
Input Volt. 100 V

Cycle 1000 mS



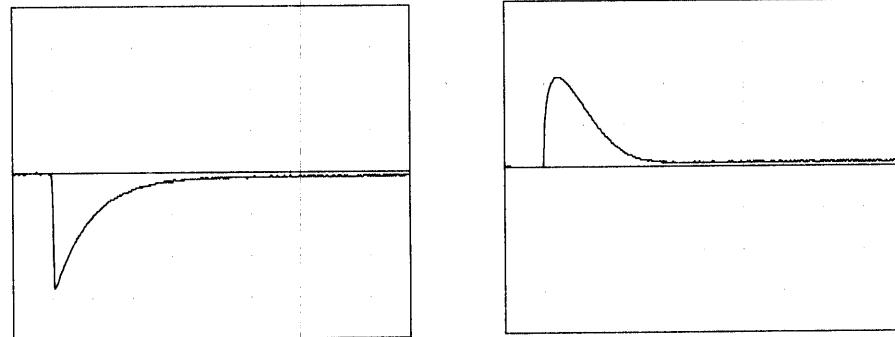
Min. Load ↔

Load 100 %



Min. Load ↔

Load 50 %



100 mV/div

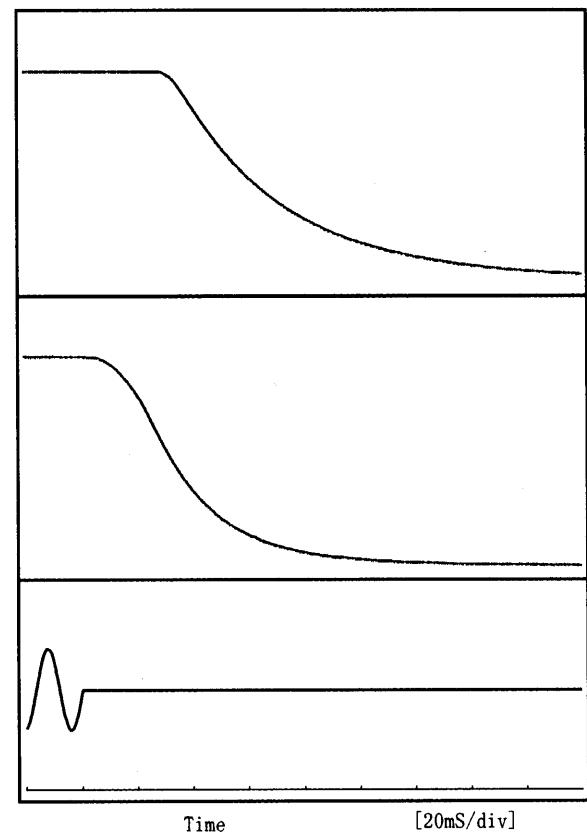
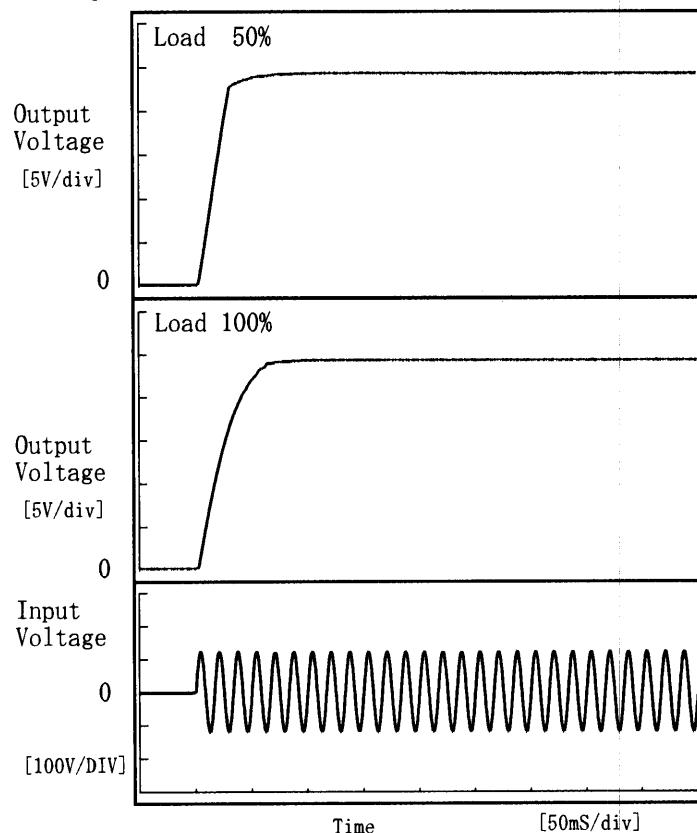
20 ms/div

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Model	R10A-24
Item	Rise and Fall Time 立上り、立下り時間
Object	+24V 0.5A

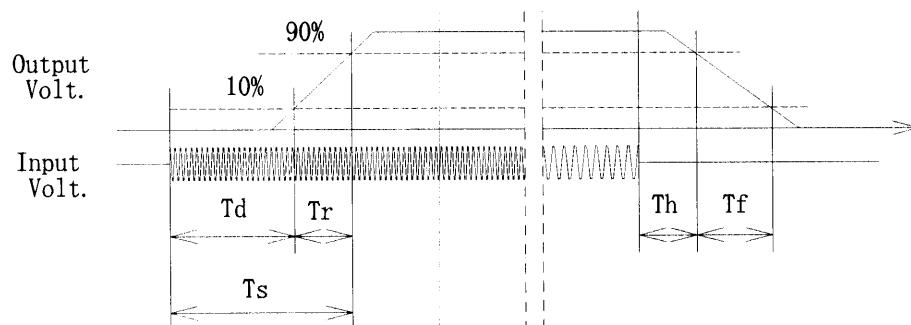
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	T d	T r	T s	T h	T f	[mS]
50 %		5.5	24.0	29.5	37.1	93.3	
100 %		5.8	43.5	49.3	16.2	54.6	



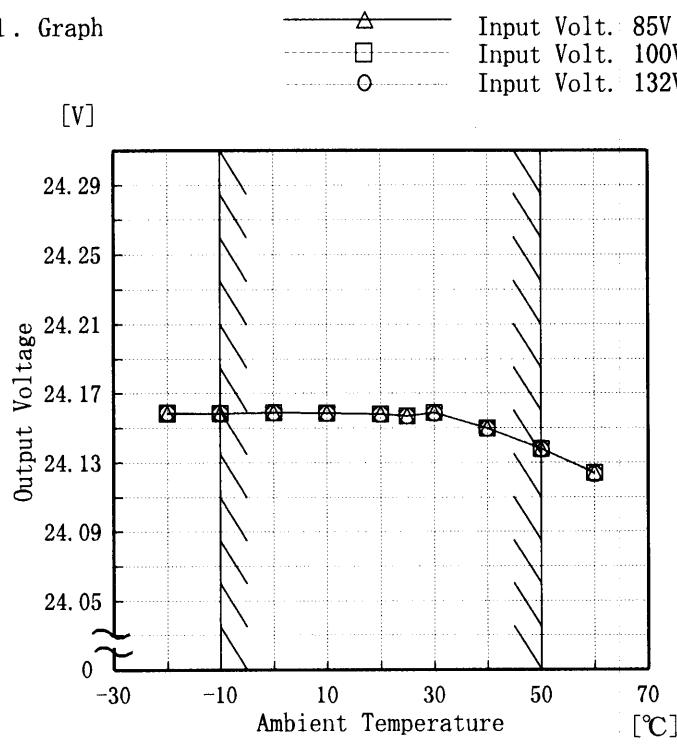
COSEL

Model R10A-24

Item Ambient Temperature Drift
周囲温度変動

Object +24V 0.5A

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。

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	24.158	24.159	24.159
-10	24.158	24.159	24.158
0	24.159	24.159	24.159
10	24.158	24.159	24.158
20	24.158	24.158	24.158
25	24.157	24.157	24.157
30	24.159	24.159	24.158
40	24.150	24.150	24.150
50	24.138	24.138	24.138
60	24.124	24.124	24.123
—	—	—	—

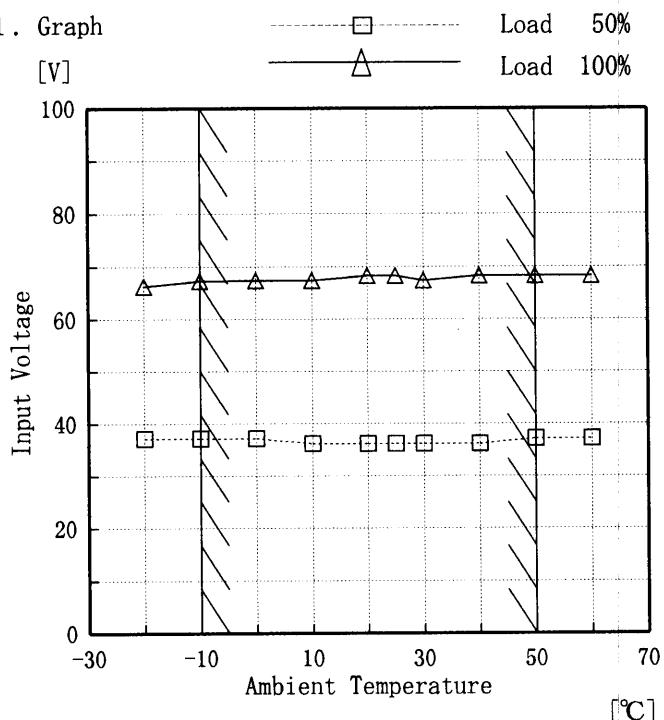
COSEL

Model R10A-24

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

Object +24V 0.5A

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。

Testing Circuitry Figure A

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Input Volt. [V]	Input Volt. [V]
-20	37	66
-10	37	67
0	37	67
10	36	67
20	36	68
25	36	68
30	36	67
40	36	68
50	37	68
60	37	68
—	—	—

COSEL

Model

R10A-24

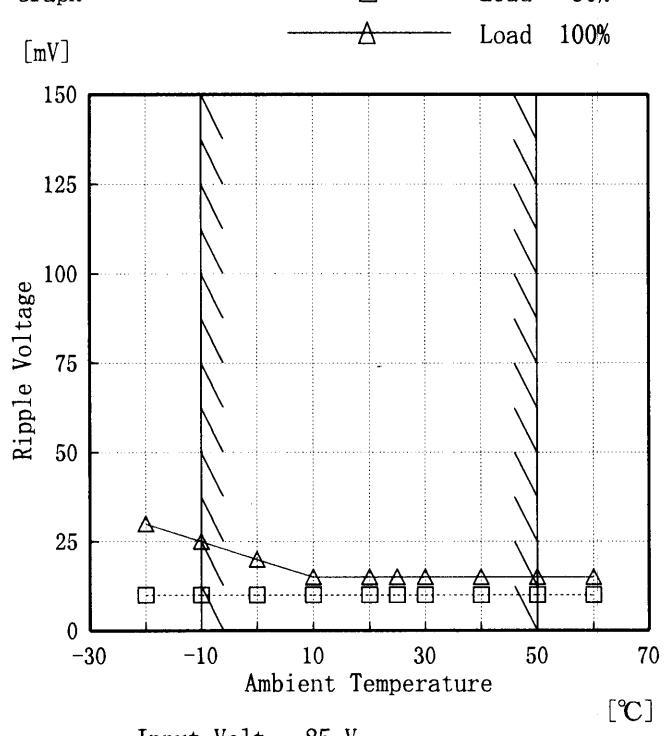
Item

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

Object

+24V 0.5A

1. Graph



Input Volt. 85 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。

Testing Circuitry Figure A

2. Values

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

COSEL

Model	R10A-24	Temperature Testing Circuitry	25 °C Figure A																					
Item	Time Lapse Drift 経時ドリフト																							
Object	+24V 0.5A																							
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>24.157</td></tr> <tr><td>0.5</td><td>24.150</td></tr> <tr><td>1.0</td><td>24.150</td></tr> <tr><td>2.0</td><td>24.150</td></tr> <tr><td>3.0</td><td>24.150</td></tr> <tr><td>4.0</td><td>24.150</td></tr> <tr><td>5.0</td><td>24.150</td></tr> <tr><td>6.0</td><td>24.151</td></tr> <tr><td>7.0</td><td>24.151</td></tr> <tr><td>8.0</td><td>24.151</td></tr> </tbody> </table>			Time [H]	Output Voltage [V]	0.0	24.157	0.5	24.150	1.0	24.150	2.0	24.150	3.0	24.150	4.0	24.150	5.0	24.150	6.0	24.151	7.0	24.151	8.0	24.151
Time [H]	Output Voltage [V]																							
0.0	24.157																							
0.5	24.150																							
1.0	24.150																							
2.0	24.150																							
3.0	24.150																							
4.0	24.150																							
5.0	24.150																							
6.0	24.151																							
7.0	24.151																							
8.0	24.151																							
<p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 100V</p> <p>Load 100%</p>																								



Model	R10A-24	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+24V 0.5A	

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 : 0.00~0.5 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 -10~50 °C

入力電圧 85~132 V

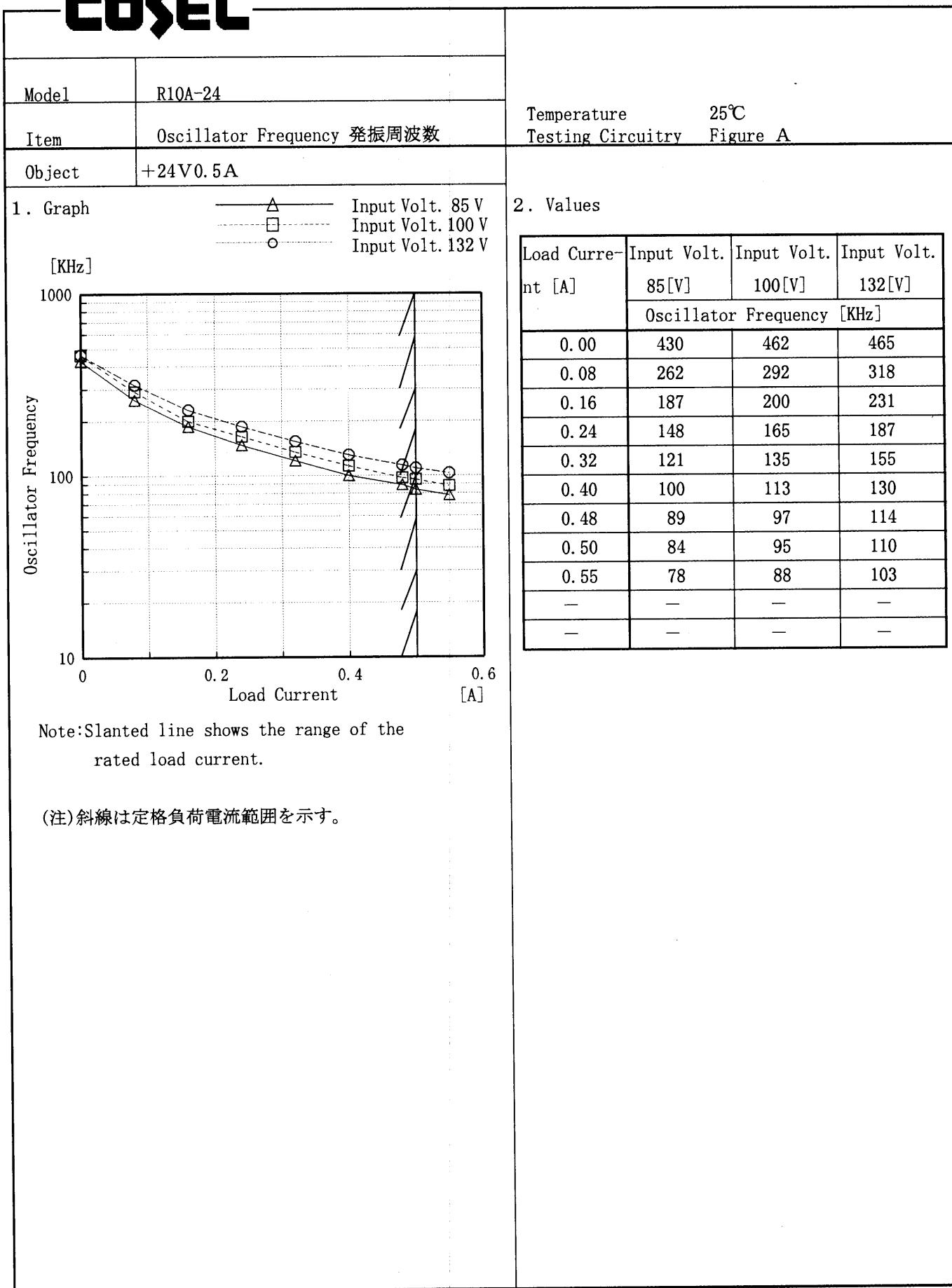
負荷電流 0.00~0.5 A

* 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	-10	132	0.00	24.168	±16	±0.1
Minimum Voltage	50	85	0.50	24.138		

COSEL





Model	R10A-24	
Item	Condensation 結露特性	Testing Circuitry Figure A
Object	+24V 0.5A	

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]	24.161	Input Volt.: 100V, Load Current:0.5A
Line Regulation [mV]	1	Input Volt.: 85~100V, Load Current:0.5A
Load Regulation [mV]	8	Input Volt.: 100V, Load Current:0.0~0.5A



Model	R10A-24	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	<hr/>		

1. Results

Standards	Leakage Current [mA]		
	Input Volt.	Input Volt.	Input Volt.
85 [V]	100 [V]	132 [V]	
(A) DENTORI	0.08	0.09	0.12
(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.	Input Volt.	Input Volt.
170 [V]	230 [V]	264 [V]	
(B) IEC60950	—	—	—



Model	R10A-24	Temperature Testing Circuitry	25°C Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+24V 0.5A		

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 : 1000 V
 Pulse Cycle : 10 mS
 Pulse Input Duration: 1 min. or more
 Load : 100 %

COSEL

Model	R10A-24	Temperature Testing Circuitry	25°C Figure D
Item	Conducted Emission 雜音端子電壓		
Object	_____		

1. Graph

Remarks

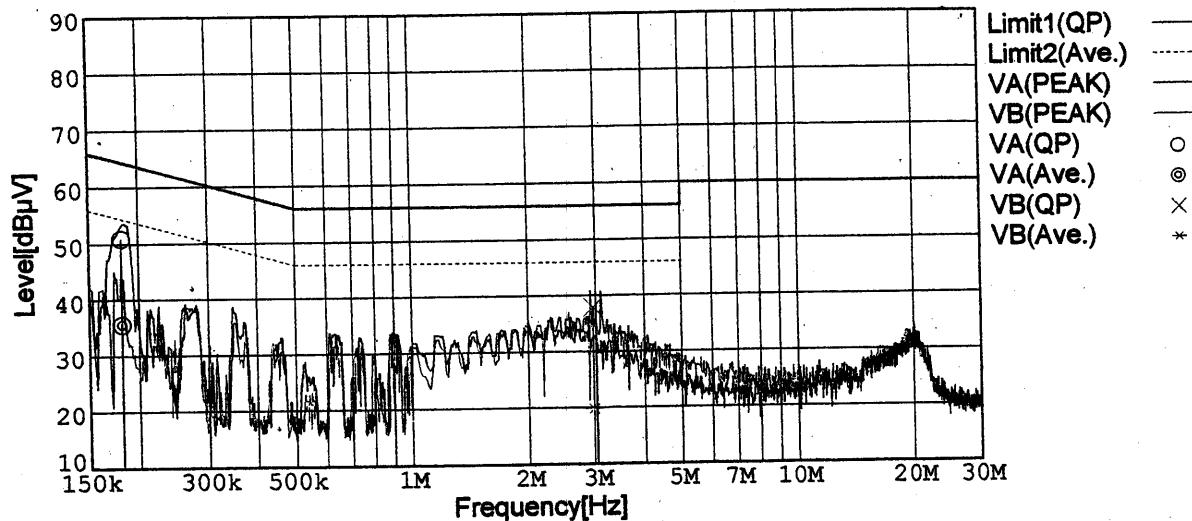
Input Volt. 100V (VCCI Class B)

120V (FCC Class B)

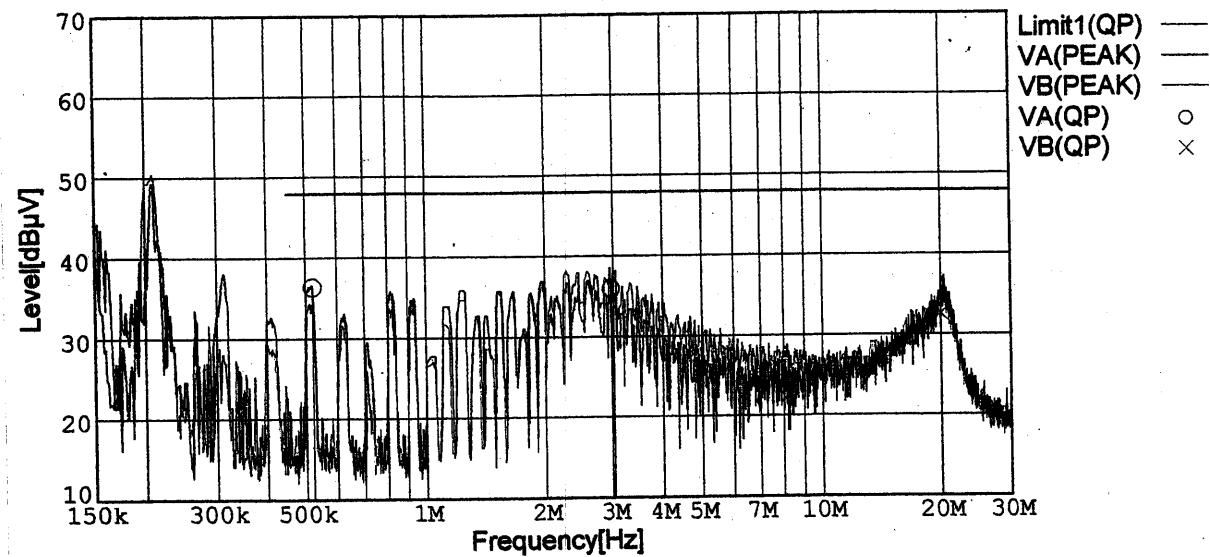
Load 100 %

Limit1: [VCCI] Class B(QP)

Limit2: [VCCI] Class B(Ave.)



Limit1: [FCC Part15] Class B



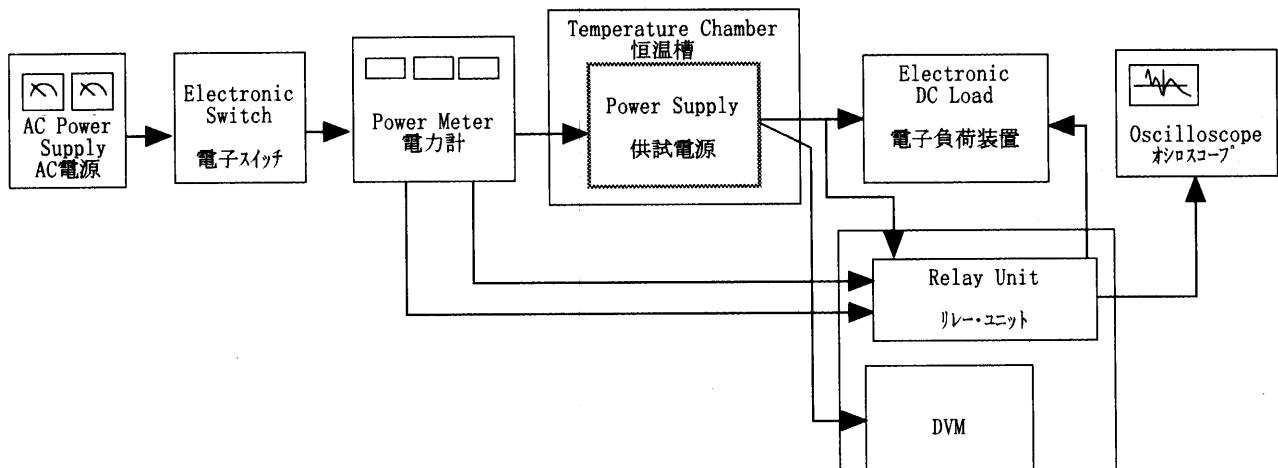


Figure A

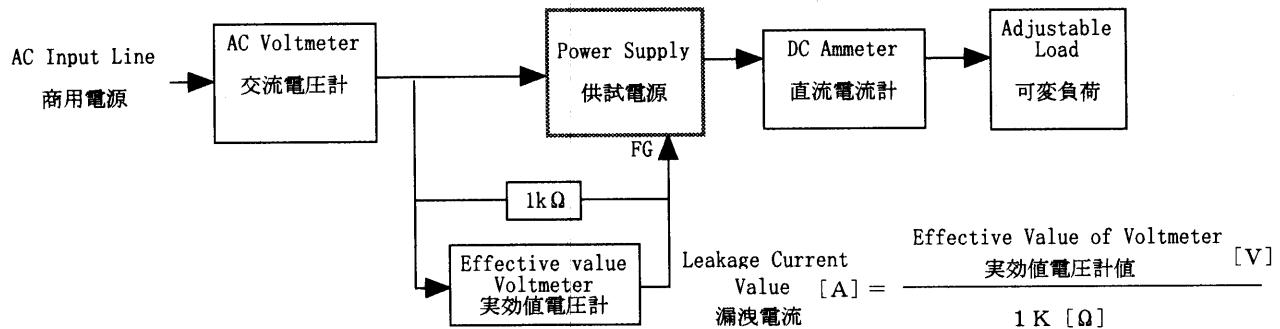
Data Acquisition/Control Unit
データ集録システム

Figure B (DENTORI)

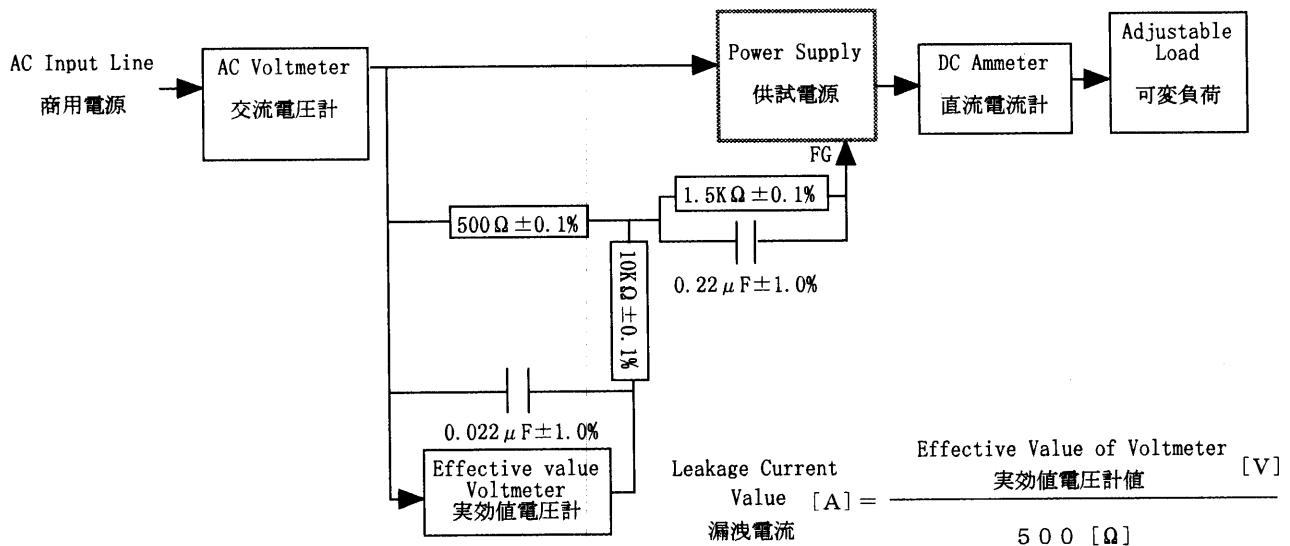


Figure B (IEC60950)

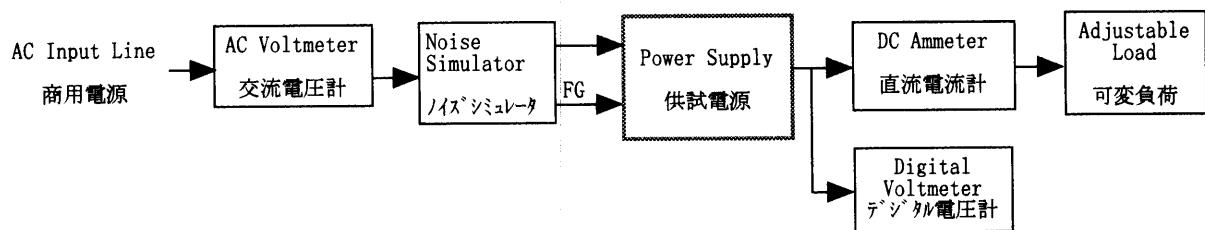


Figure C

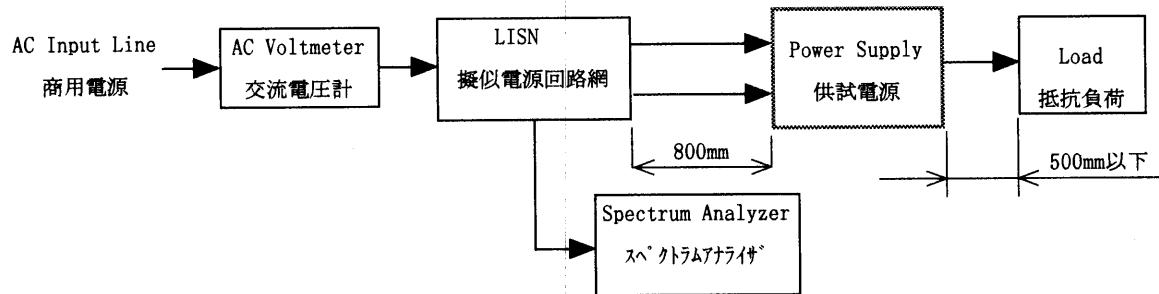


Figure D

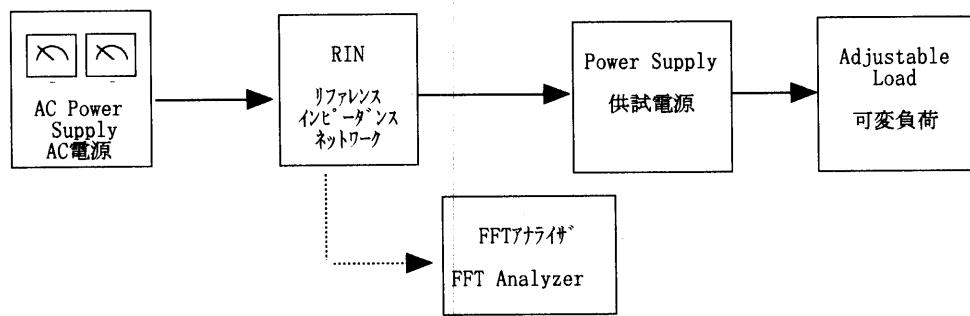


Figure E