



TEST DATA OF R15A-24

(100V INPUT)

Regulated DC Power Supply

Date : May 18. 1998

Approved by : T. Sugimori
Design Manager

Prepared by : M. Hashino
Design Engineer

コーセル株式会社

COSEL CO., LTD.

CONTENTS

1. Line Regulation	1
静的入力変動	
2. Input Current (by Load Current)	2
入力電流 (負荷特性)	
3. Input Power (by Load Current)	3
入力電力 (負荷特性)	
4. Efficiency (by Input Voltage)	4
効率 (入力電圧特性)	
5. Efficiency (by Load Current)	5
効率 (負荷特性)	
6. Power Factor (by Input Voltage)	6
力率 (入力電圧特性)	
7. Power Factor (by Load Current)	7
力率 (負荷特性)	
8. Hold-Up Time	8
出力保持時間	
9. Instantaneous Interruption Compensation	9
瞬時停電保障	
10. Load Regulation	10
静的負荷変動	
11. Ripple Voltage (by Load Current)	11
リップル電圧 (負荷特性)	
12. Ripple-Noise	12
リップルノイズ	
13. Overcurrent Protection	13
過電流保護	
14. Inrush Current	14
突入電流	
15. Dynamic Load Responce	15
動的負荷変動	
16. Rise and Fall Time	16
立上り、立下がり時間	
17. Ambient Temperature Drift	17
周囲温度変動	
18. Minimum Input Voltage for Regulated Output Voltage	18
最低レギュレーション電圧	
19. Ripple Voltage (by Ambient Temperature)	19
リップル電圧 (周囲温度特性)	
20. Time Lapse Drift	20
経時ドリフト	
21. Output Voltage Accuracy	21
定電圧精度	
22. Oscillator Frequency	22
発振周波数	
23. Condensation	23
結露特性	
24. Leakage Current	24
漏洩電流	
25. Line Noise Tolerance	25
入力雑音耐量	
26. Conducted Emission	26
雑音端子電圧	
27. Figure of Testing Circuitry	27
測定回路図	

(Final Page 28)

COSEL

Model		R15A-24		Temperature		25℃																																	
Item		Line Regulation 静的入力変動		Testing Circuitry		Figure A																																	
Object		+24V0.7A																																					
1. Graph				2. Values																																			
<div><div><div>-----□-----</div><div>Load 50%</div></div><div><div>-----△-----</div><div>Load 100%</div></div></div> <div><div>Output Voltage</div><div>[V]</div><div><div>24.09</div><div>24.07</div><div>24.05</div><div>24.03</div><div>24.01</div><div>23.99</div><div>23.97</div><div>0</div></div><div><div>0</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div><div>Input Voltage</div><div>[V]</div><div></div></div> <div><div>Note: Slanted line shows the range of the rated input voltage.</div><div>(注)斜線は定格入力電圧範囲を示す。</div></div>				<table><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><tr><td>75</td><td>24.019</td><td>24.016</td></tr><tr><td>80</td><td>24.019</td><td>24.017</td></tr><tr><td>85</td><td>24.019</td><td>24.017</td></tr><tr><td>90</td><td>24.019</td><td>24.017</td></tr><tr><td>100</td><td>24.019</td><td>24.017</td></tr><tr><td>110</td><td>24.019</td><td>24.017</td></tr><tr><td>120</td><td>24.019</td><td>24.017</td></tr><tr><td>132</td><td>24.019</td><td>24.017</td></tr><tr><td>140</td><td>24.019</td><td>24.017</td></tr></table>				Input Voltage [V]	Load 50%	Load 100%	Output Volt. [V]	Output Volt. [V]	75	24.019	24.016	80	24.019	24.017	85	24.019	24.017	90	24.019	24.017	100	24.019	24.017	110	24.019	24.017	120	24.019	24.017	132	24.019	24.017	140	24.019	24.017
Input Voltage [V]	Load 50%	Load 100%																																					
	Output Volt. [V]	Output Volt. [V]																																					
75	24.019	24.016																																					
80	24.019	24.017																																					
85	24.019	24.017																																					
90	24.019	24.017																																					
100	24.019	24.017																																					
110	24.019	24.017																																					
120	24.019	24.017																																					
132	24.019	24.017																																					
140	24.019	24.017																																					

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。

COSEL

Model

R15A-24

Item

Input Current (by Load Current)
入力電流 (負荷特性)

Output

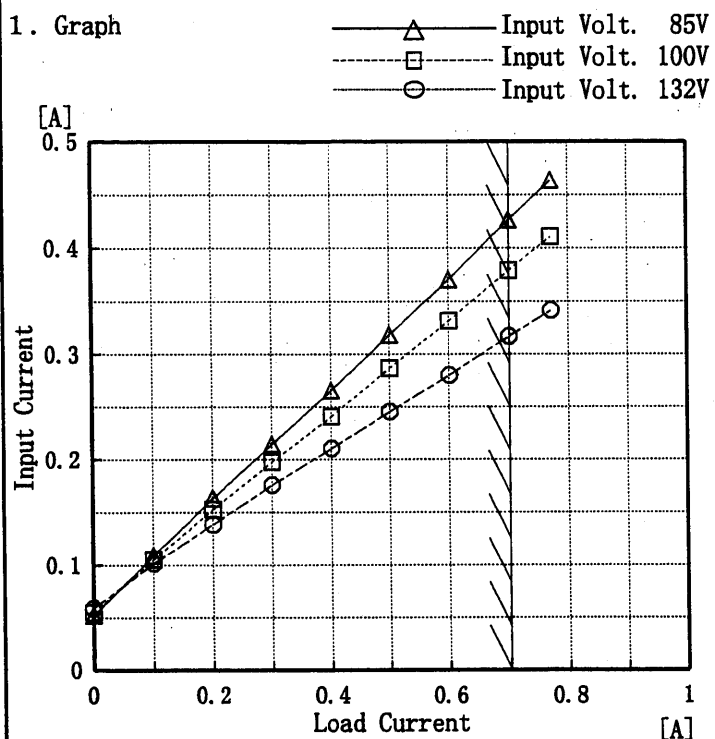
Temperature

25°C

Testing Circuitry

Figure A

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。

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.052	0.055	0.059
0.10	0.109	0.105	0.102
0.20	0.163	0.153	0.139
0.30	0.215	0.198	0.176
0.40	0.266	0.241	0.210
0.50	0.319	0.287	0.245
0.60	0.370	0.331	0.280
0.70	0.426	0.379	0.317
0.77	0.463	0.411	0.342

COSEL

Model R15A-24		Temperature 25°C	
Item	Input Power (by Load Current) 入力電力 (負荷特性)	Testing Circuitry Figure A	
Output	_____		

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

[W]

50

40

30

20

10

0

Input Power

0

0.2

0.4

0.6

0.8

1

Load Current

[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 Power [W]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	1.90	2.29	3.11
0.10	4.67	5.07	6.12
0.20	7.51	7.84	8.75
0.30	10.15	10.52	11.45
0.40	12.86	13.14	14.00
0.50	15.69	15.91	16.65
0.60	18.50	18.63	19.26
0.70	21.55	21.59	22.06
0.77	23.59	23.57	23.95

COSEL

Model	R15A-24	Temperature	25°C
Item	Efficiency 効率	Testing Circuitry	Figure A
Object			

1. Graph

□

Load 50%

△

Load 100%

Efficiency [%]

Input Voltage [V]

[V]

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% Efficiency [%]	Load 100% Efficiency [%]
75	76.5	79.2
80	75.9	79.4
85	75.4	79.7
90	74.9	79.4
100	73.6	79.8
110	71.8	79.3
120	70.3	78.7
132	68.1	77.6
140	66.8	77.1

COSEL

Model R15A-24		Temperature 25°C	
Item	Efficiency (by Load Current) 効率 (負荷電流特性)	Testing Circuitry Figure A	
Output	_____		

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Efficiency [%]

90

80

70

60

50

40

0

0.2

0.4

0.6

0.8

1

Load Current [A]

0.10

0.20

0.30

0.40

0.50

0.60

0.70

0.77

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]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.10	56.6	52.6	43.8
0.20	67.3	64.8	58.2
0.30	73.6	71.1	65.9
0.40	76.5	75.1	70.5
0.50	78.1	77.2	73.9
0.60	79.1	78.7	76.2
0.70	79.6	79.4	77.7
0.77	79.7	79.8	78.6

COSEL

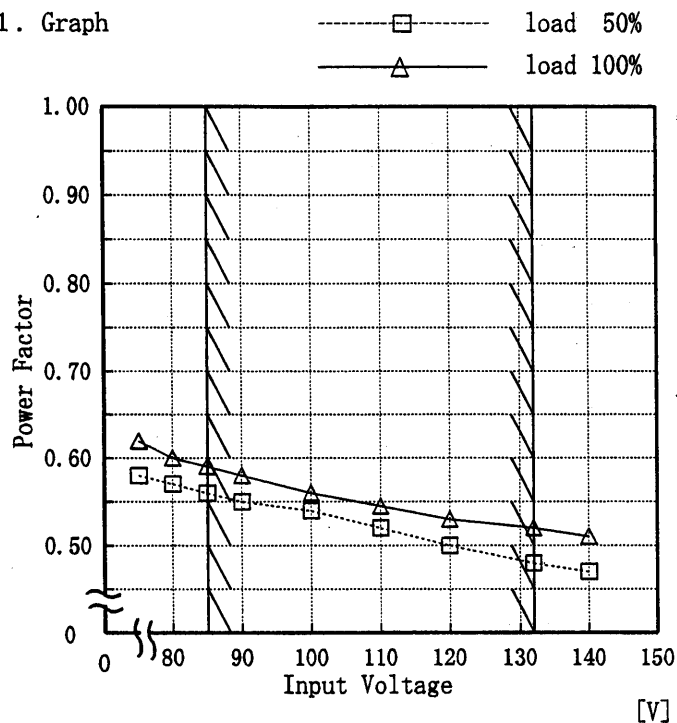
Model R15A-24

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	0.58	0.62
80	0.57	0.60
85	0.56	0.59
90	0.55	0.58
100	0.54	0.56
110	0.52	0.55
120	0.50	0.53
132	0.48	0.52
140	0.47	0.51

COSEL

Model	R15A-24	Temperature	25°C
Item	Power Factor (by Load Current) 力率 (負荷電流特性)	Testing Circuitry	Figure A
Output	_____		

1. Graph

—△— Input Volt. 85V

---□--- Input Volt. 100V

—○— Input Volt. 132V

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]	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
—	0.43	0.42	0.40
0.10	0.50	0.48	0.45
0.20	0.54	0.51	0.48
0.30	0.55	0.53	0.49
0.40	0.57	0.54	0.50
0.50	0.58	0.55	0.51
0.60	0.59	0.56	0.52
0.70	0.59	0.56	0.52
0.77	0.59	0.56	0.52

COSEL

Model		R15A-24	Temperature Testing Circuitry	25℃ Figure A																																										
Item		Hold-Up Time 出力保持時間																																												
Object		+24V0.7A																																												
1. Graph																																														
<div><div><div>—△—</div><div>Load 50%</div></div><div><div>- -□- -</div><div>Load 100%</div></div></div> <div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div> <div><div>Hold-Up Time</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div> <div><div>Input Voltage</div><div>[V]</div></div> <tr><td colspan="5">2. Values</td></tr> <tr><td colspan="5"><table><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><tr><td>75</td><td>43</td><td>15</td></tr><tr><td>80</td><td>48</td><td>18</td></tr><tr><td>85</td><td>55</td><td>21</td></tr><tr><td>90</td><td>62</td><td>24</td></tr><tr><td>100</td><td>77</td><td>32</td></tr><tr><td>110</td><td>93</td><td>41</td></tr><tr><td>120</td><td>110</td><td>51</td></tr><tr><td>132</td><td>133</td><td>63</td></tr><tr><td>140</td><td>149</td><td>72</td></tr></table></td></tr>					2. Values					<table><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><tr><td>75</td><td>43</td><td>15</td></tr><tr><td>80</td><td>48</td><td>18</td></tr><tr><td>85</td><td>55</td><td>21</td></tr><tr><td>90</td><td>62</td><td>24</td></tr><tr><td>100</td><td>77</td><td>32</td></tr><tr><td>110</td><td>93</td><td>41</td></tr><tr><td>120</td><td>110</td><td>51</td></tr><tr><td>132</td><td>133</td><td>63</td></tr><tr><td>140</td><td>149</td><td>72</td></tr></table>					Input Voltage [V]	Load 50%	Load 100%	Hold-Up Time [mS]	Hold-Up Time [mS]	75	43	15	80	48	18	85	55	21	90	62	24	100	77	32	110	93	41	120	110	51	132	133	63	140	149	72
2. Values																																														
<table><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><tr><td>75</td><td>43</td><td>15</td></tr><tr><td>80</td><td>48</td><td>18</td></tr><tr><td>85</td><td>55</td><td>21</td></tr><tr><td>90</td><td>62</td><td>24</td></tr><tr><td>100</td><td>77</td><td>32</td></tr><tr><td>110</td><td>93</td><td>41</td></tr><tr><td>120</td><td>110</td><td>51</td></tr><tr><td>132</td><td>133</td><td>63</td></tr><tr><td>140</td><td>149</td><td>72</td></tr></table>					Input Voltage [V]	Load 50%	Load 100%	Hold-Up Time [mS]	Hold-Up Time [mS]	75	43	15	80	48	18	85	55	21	90	62	24	100	77	32	110	93	41	120	110	51	132	133	63	140	149	72										
Input Voltage [V]	Load 50%	Load 100%																																												
	Hold-Up Time [mS]	Hold-Up Time [mS]																																												
75	43	15																																												
80	48	18																																												
85	55	21																																												
90	62	24																																												
100	77	32																																												
110	93	41																																												
120	110	51																																												
132	133	63																																												
140	149	72																																												

COSEL

COSEL

Model	R15A-24
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+24V0.7A

1. Graph

—△—

—□—

—○—

Input Volt. 85V

Input Volt. 100V

Input Volt. 132V

Instantaneous Compensation Time [mS]

Load Current [A]

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	—	—	—
0.10	—	—	—
0.20	88	122	209
0.30	56	81	145
0.40	39	57	109
0.50	28	44	86
0.60	19	31	65
0.70	12	22	55
0.77	5	14	46

COSEL

Model		R15A-24	
Item		Load Regulation 静的負荷変動	
Object		+24V0.7A	

1. Graph

—△—

Input Volt. 85V

- - -□- -

Input Volt. 100V

—○—

Input Volt. 132V

[V]

24.16

24.12

24.08

24.04

24.00

23.96

23.92

0

0

0.2

0.4

0.6

0.8

1

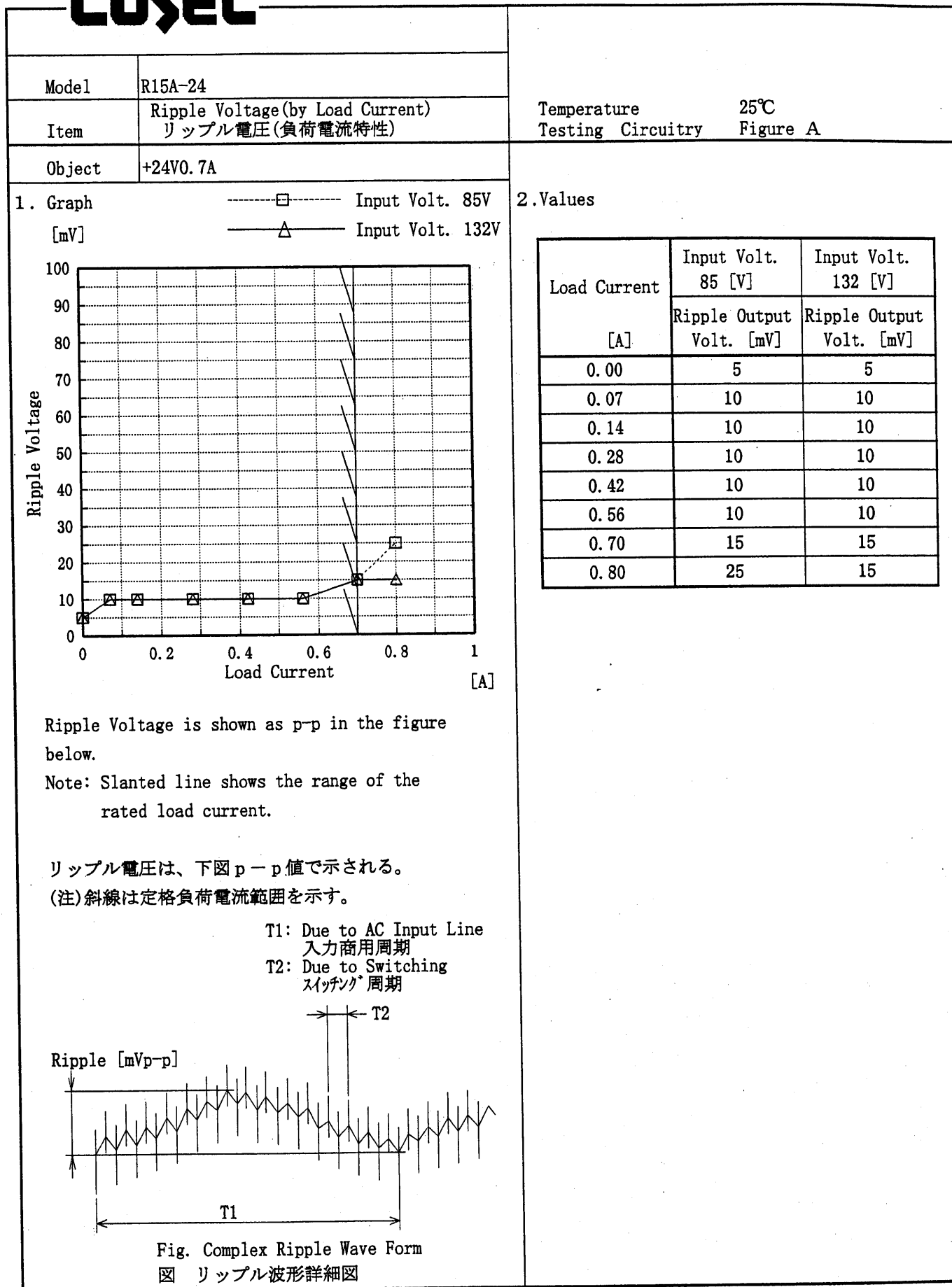
[A]

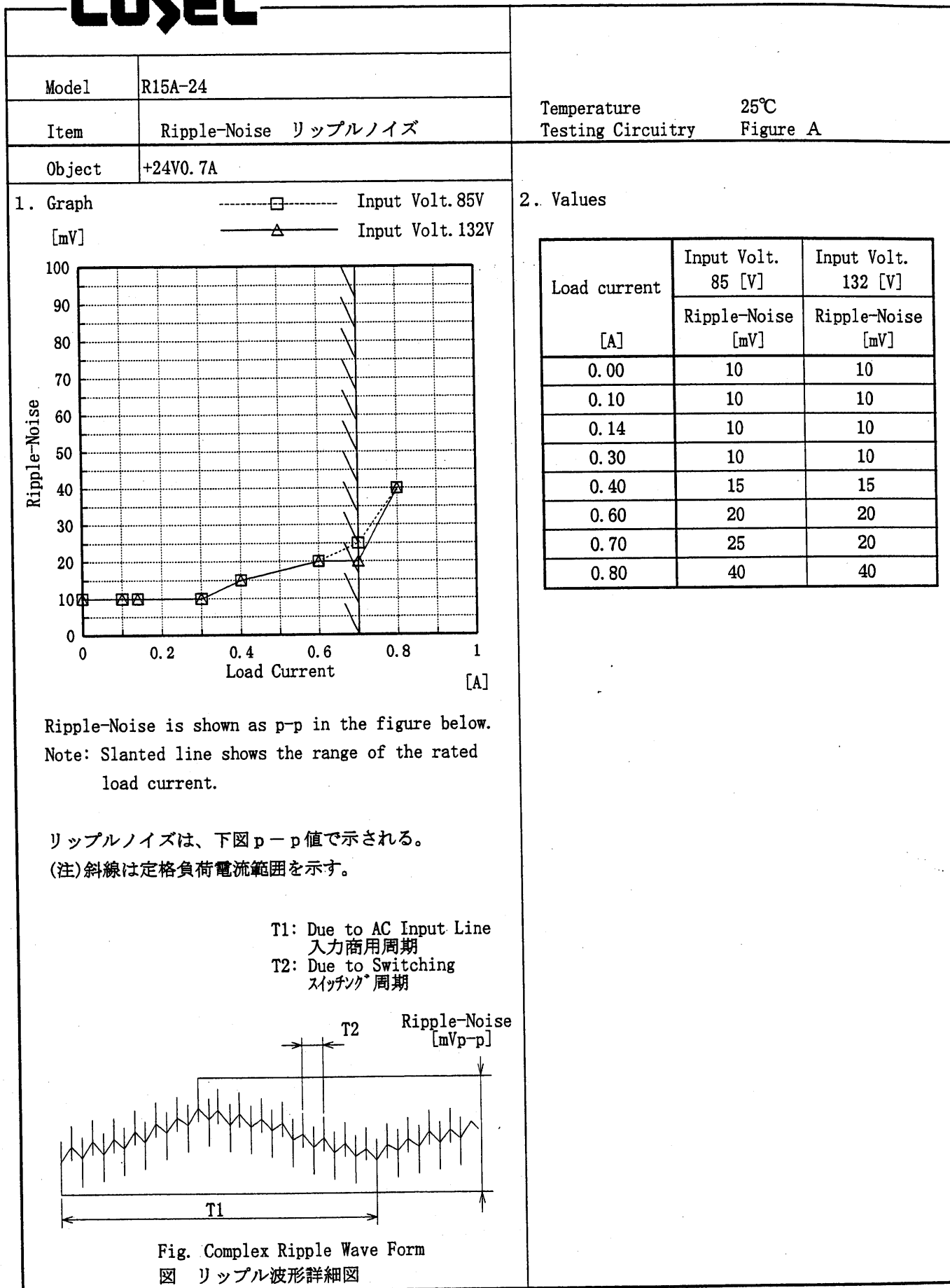
Note: Slanted line shows the range of the rated load current.

(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]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
0.00	24.024	24.024	24.025
0.10	24.023	24.022	24.022
0.20	24.022	24.022	24.022
0.30	24.021	24.021	24.021
0.40	24.020	24.020	24.020
0.50	24.020	24.020	24.019
0.60	24.019	24.019	24.019
0.70	24.018	24.018	24.018
0.77	24.017	24.018	24.018

COSEL

COSEL

COSEL

Model		R15A-24
Item		Overcurrent Protection 過電流保護
Object		+24V0.7A

1. Graph

Input Volt. 85 V

Input Volt. 100 V

Input Volt. 132 V

[V]

40.0

30.0

20.0

10.0

0.0

0

0.2

0.4

0.6

0.8

1

1.2

Output Voltage

Load Current

[A]

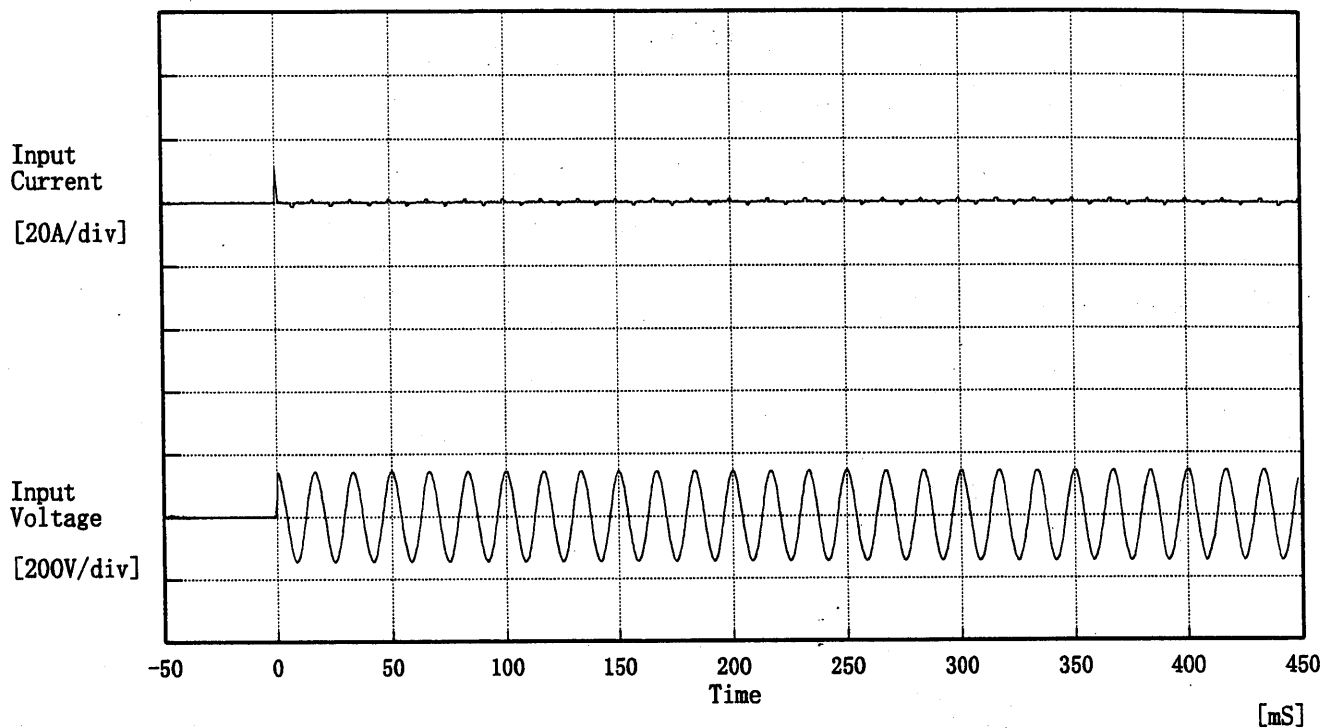
Note: Slanted line shows the range of the rated load current.

(注)斜線は定格負荷電流範囲を示す。

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	0.49	0.56	0.06
22.80	0.85	0.92	0.90
21.60	0.86	0.92	0.89
19.20	0.87	0.92	0.89
16.80	0.87	0.92	0.89
14.40	0.87	0.90	0.87
12.00	0.85	0.88	0.85
9.60	0.82	0.85	0.82
7.20	0.78	0.80	0.78
4.80	0.71	0.72	0.72
2.40	0.60	0.61	0.62
0.00	0.87	0.91	0.97

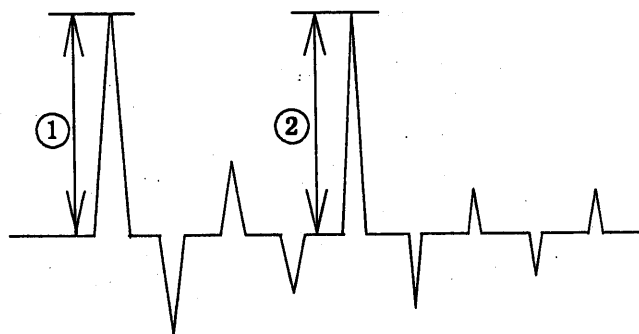
COSEL

Model	R15A-24	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



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

- ① 11.21 [A]
- ② 1.21 [A]



COSEL

Model	R15A-24		
Item	Dynamic Load Responce 動的負荷変動	Temperature	25℃
Object	+24V0.7A	Testing Circuitry	Figure A

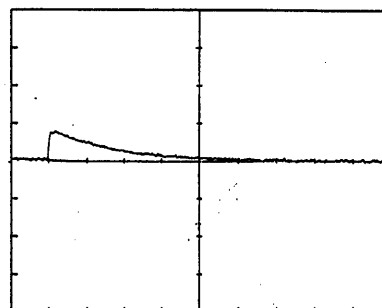
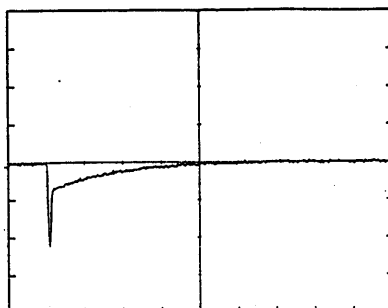
Input Volt. 100 V

Cycle 1000 mS

Load Current

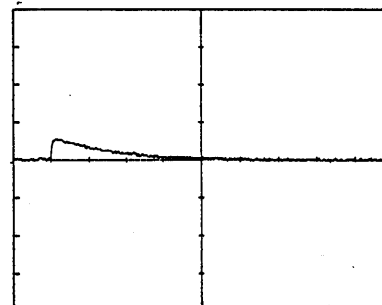
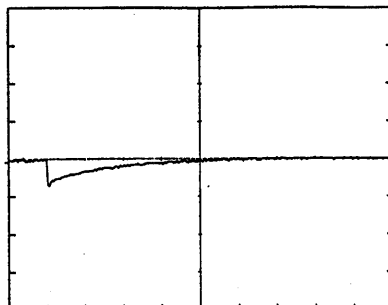
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



200 mV/div

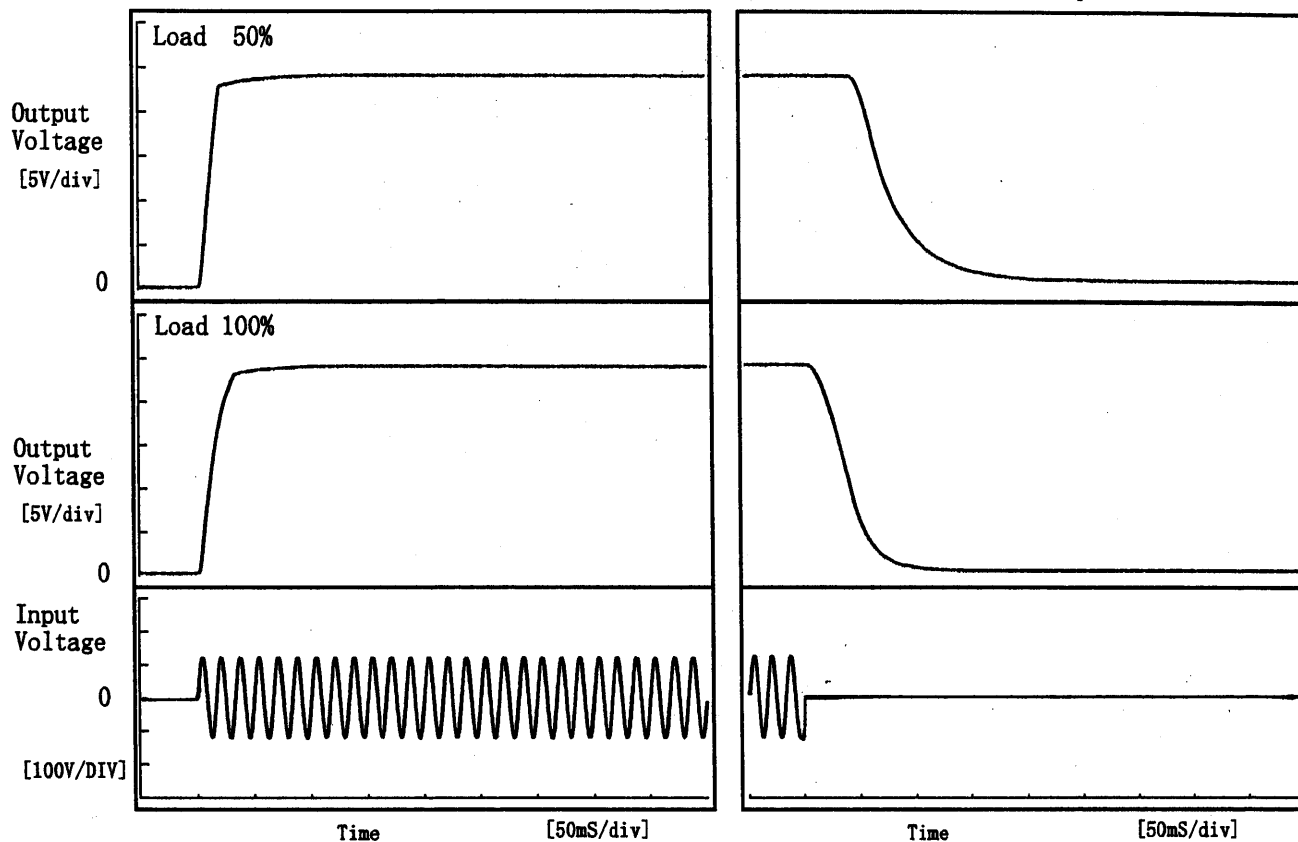
20 mS/div

COSEL

Model	R15A-24	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24V0.7A		

1. Graph

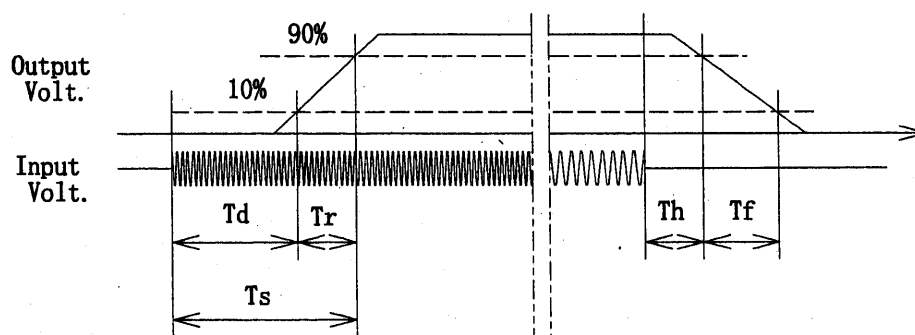
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	4.8	14.8	19.5	53.3	87.5
100 %	4.5	25.0	29.5	18.3	51.8



COSEL

Model

R15A-24

Item

Ambient Temperature Drift
周囲温度変動

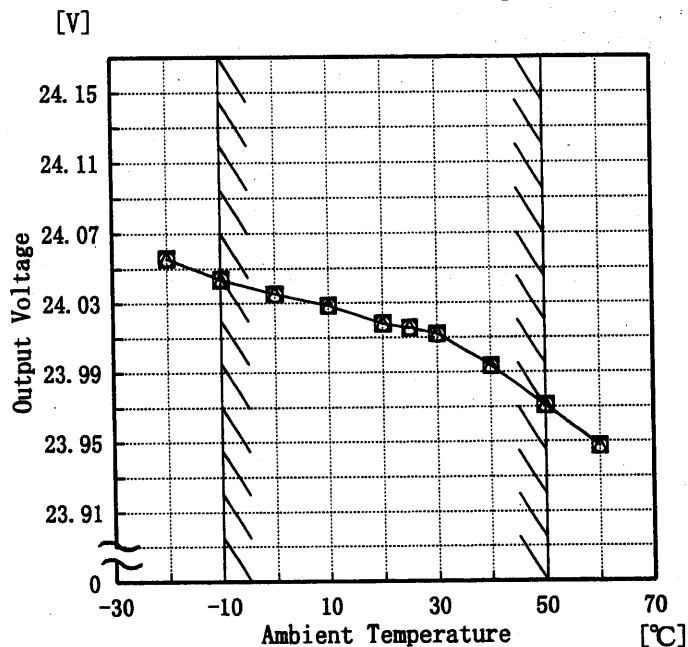
Object

+24V0.7A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 85V
 - - - □ - - - Input Volt. 100V
 —○— Input Volt. 132V



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

Temperature [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	24.056	24.056	24.056
-10	24.043	24.044	24.044
0	24.035	24.035	24.035
10	24.029	24.029	24.029
20	24.018	24.018	24.018
25	24.016	24.016	24.016
30	24.012	24.012	24.012
40	23.993	23.994	23.993
50	23.971	23.971	23.971
60	23.947	23.948	23.947

COSEL

Model

R15A-24

Item

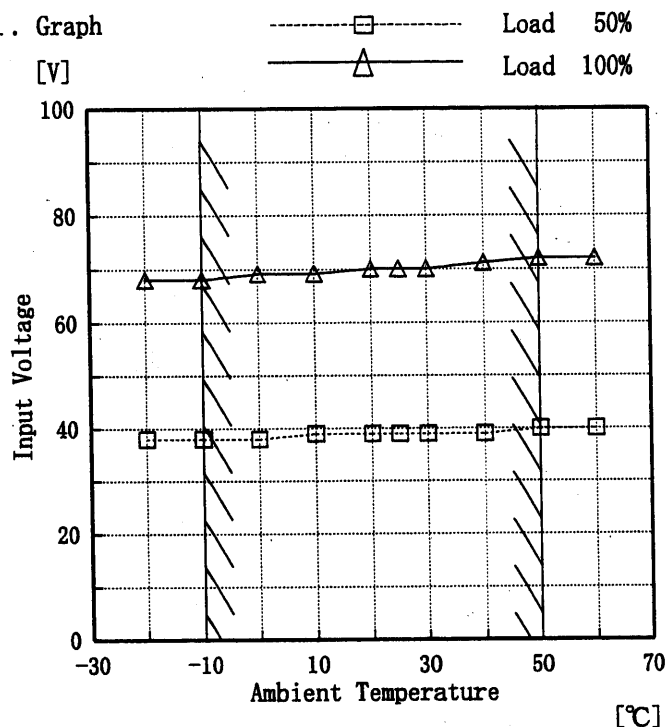
Minimum Input Voltage for Regulated Output Voltage
最低レギュレーション電圧

Object

+24V0.7A

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 Temp. [°C]	Load 50%	Load 100%
	Input Volt. [V]	Input Volt. [V]
-20	38	68
-10	38	68
0	38	69
10	39	69
20	39	70
25	39	70
30	39	70
40	39	71
50	40	72
60	40	72

COSEL

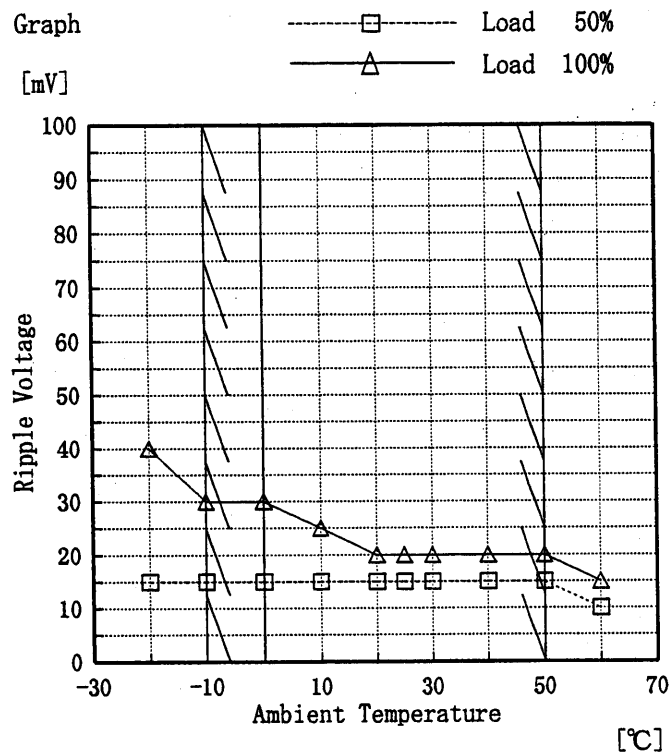
Model R15A-24

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

Object +24V0.7A

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

COSEL

Model

R15A-24

Item

Time Lapse Drift 経時ドリフト

Temperature

25 °C

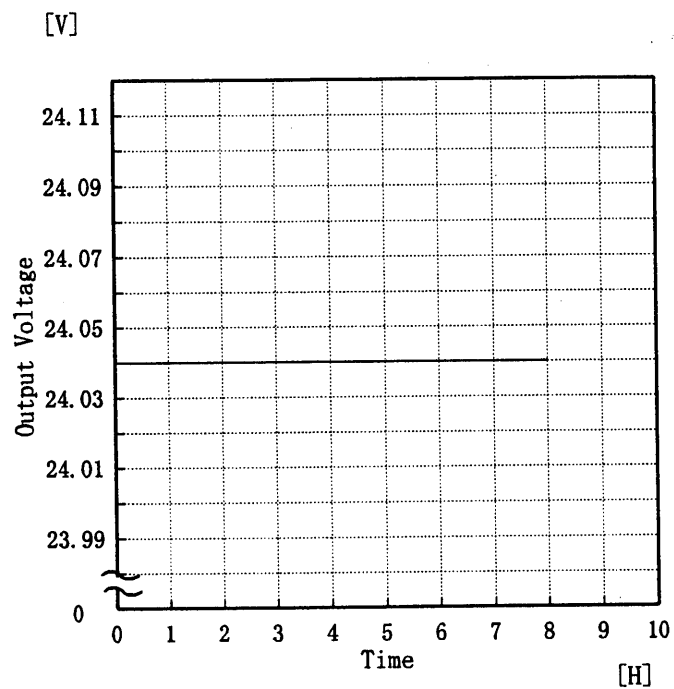
Testing Circuitry

Figure A

Object

+24V0.7A

1. Graph



2. Values

Time since start [H]	Output Voltage [V]
0.0	24.040
0.5	24.040
1.0	24.040
2.0	24.040
3.0	24.040
4.0	24.040
5.0	24.040
6.0	24.040
7.0	24.040
8.0	24.040

COSEL

Model		R15A-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24V0.7A	

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 : 0.00~0.70 A

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

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

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 : 0.00~0.70 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 (Ratio) [%]
Maximum Voltage	-10	132	0.00	24.053	±41	±0.2
Minimum Voltage	50	132	0.70	23.971		

COSEL

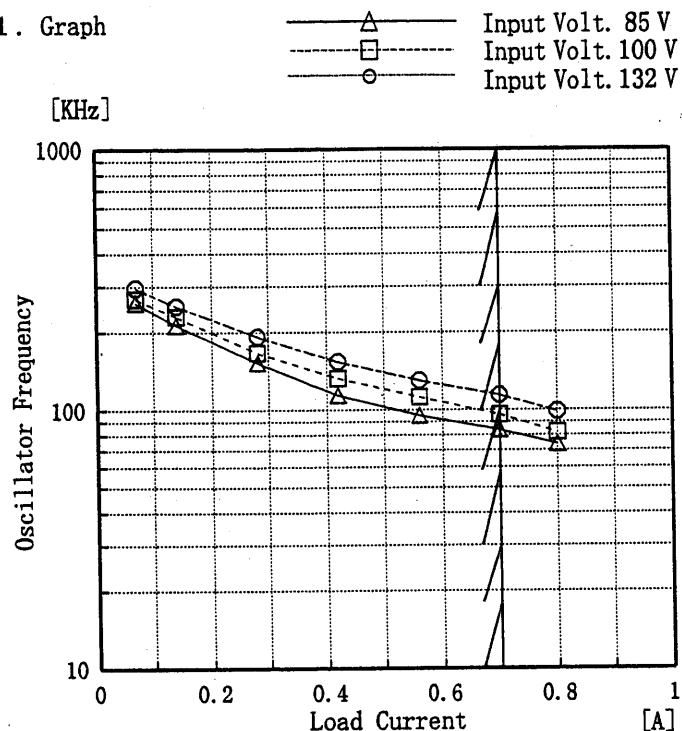
Model R15A-24

Item Oscillator Frequency 発振周波数

Object +24V0.7A

Temperature 25°C
Testing Circuitry Figure A

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。

2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Oscillator Frequency [KHz]		
0.07	260	269	297
0.14	213	230	252
0.28	153	167	193
0.42	114	133	154
0.56	95	112	130
0.70	84	96	114
0.80	74	82	99

COSEL

LUCEL

Model	R15A-24
Item	Condensation 結露特性
Object	+24V0.7A

Testing Circuitry Figure A

1. Condensation test

Testing procedure is as follows.

① Keeping and cooling the unit in a tank at -10℃ 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℃ and the humidity is 40%RH.

③ Testing electrical characteristics of the unit to confirm there be no fault.

④ Repeating ①, ② and ③ three times.

1. 結露特性試験

入力を切った状態で、恒温槽で－10℃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℃、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3度行い、異常のないことを確認する。

2. Values

	Times	Output Voltage [V]	Ripple Voltage [mV]	Ripple Noise [mV]
Load 50 %	1	24.060	10	20
	2	24.060	10	20
	3	24.060	10	20
Load 100 %	1	24.060	15	20
	2	24.060	15	30
	3	24.060	15	30

Input Volt. 100 V

COSEL

Model	R15A-24	Testing Circuitry Figure B
Item	Leakage Current 漏洩電流	
Object	_____	

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.12	0.21	0.26
(B) U L	0.12	0.21	0.26
(C) C S A	0.12	0.21	0.26

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 220 [V]	Input Volt. 264 [V]
(D) V D E	—	—	—

2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力の高相について測定し、その大きい方を漏洩電流測定値とする。

COSEL

Model		R15A-24	Testing Circuitry Figure C
Item		Line Noise Tolerance 入力雑音耐量	
Object		+24V0.7A	

1. Results

Pulse Width [n S]	MODE	Operating Point of Overvoltage Protection [V] 過電圧保護動作値	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	-	no regulation
	NORMAL	-	no regulation
1000	COMMON	-	no regulation
	NORMAL	-	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	R15A-24	Testing Circuitry Figure D
Item	Conducted Emission 雑音端子電圧	
Object		

1. Graph

Remarks

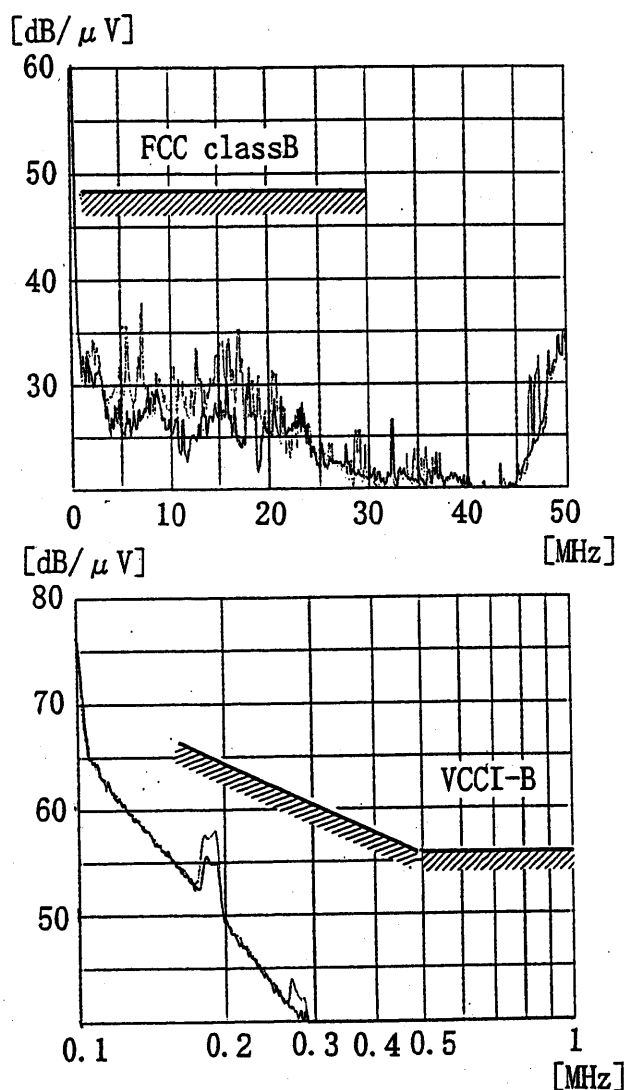
Input Volt. 100V (VCCI -B)
 120V (FCC classB)

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/μV]
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



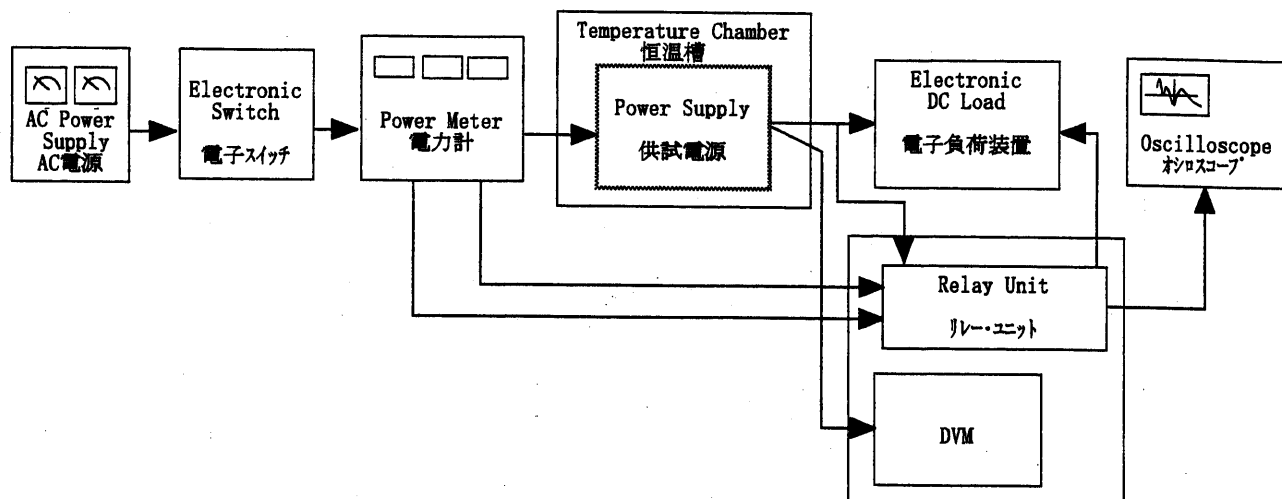


Figure A

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

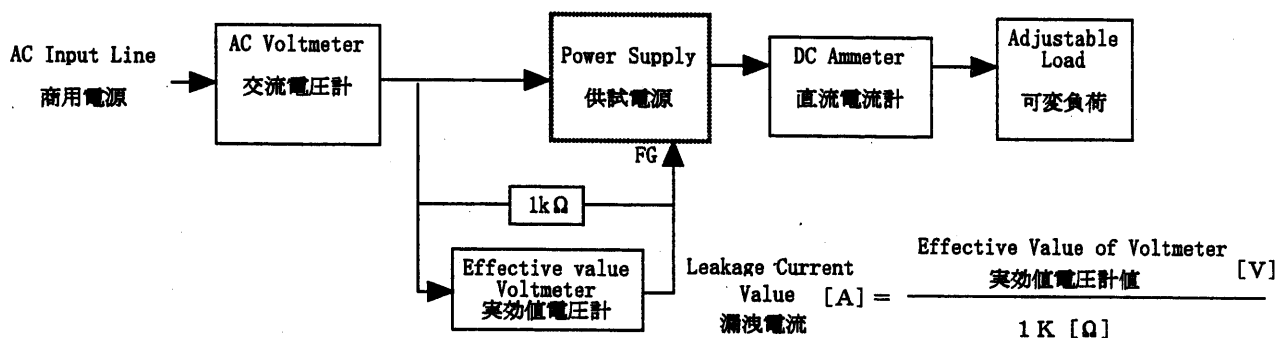


Figure B (DENTORI)

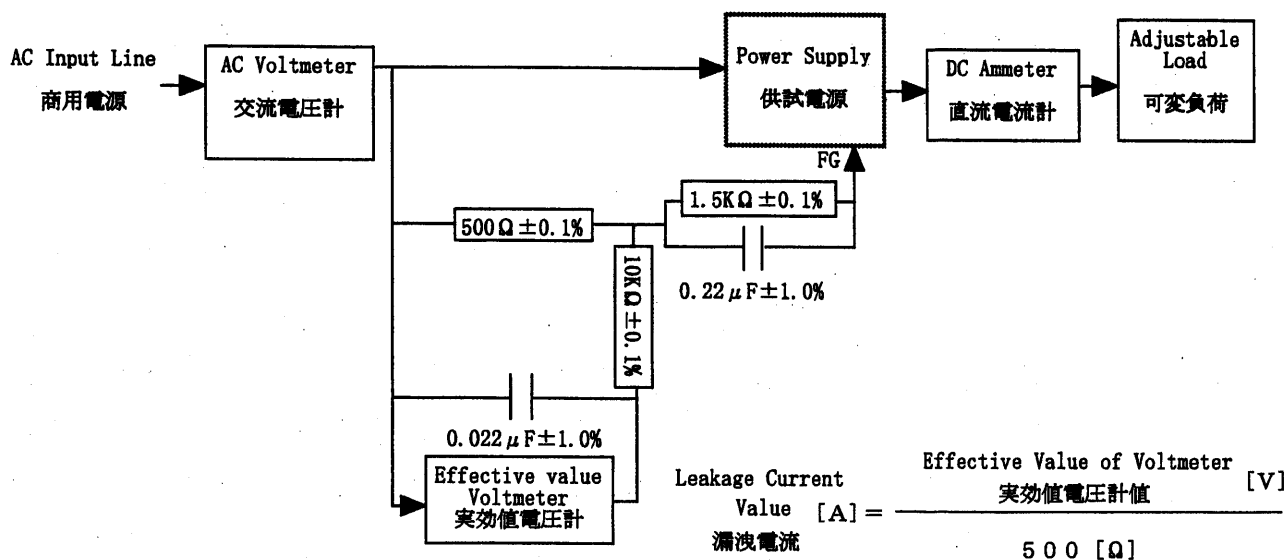


Figure B (UL, CSA, VDE)

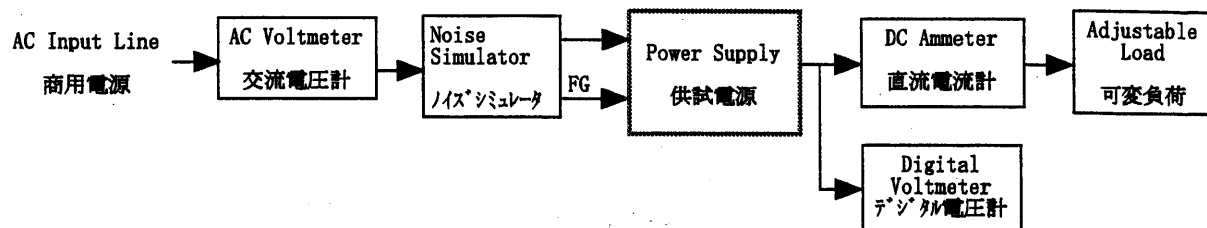


Figure C

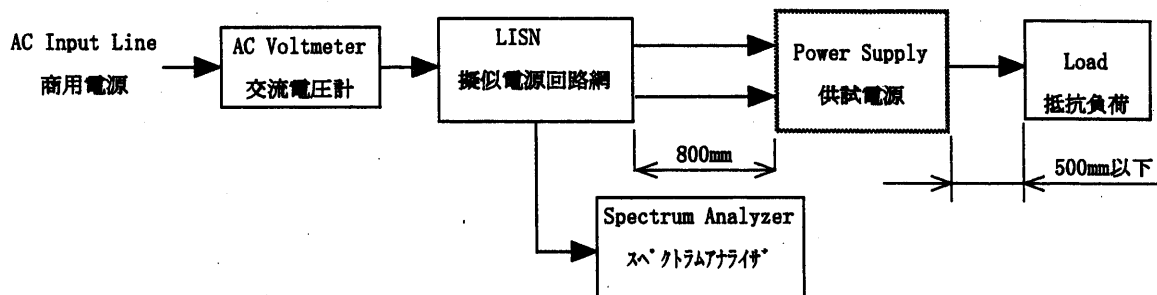


Figure D

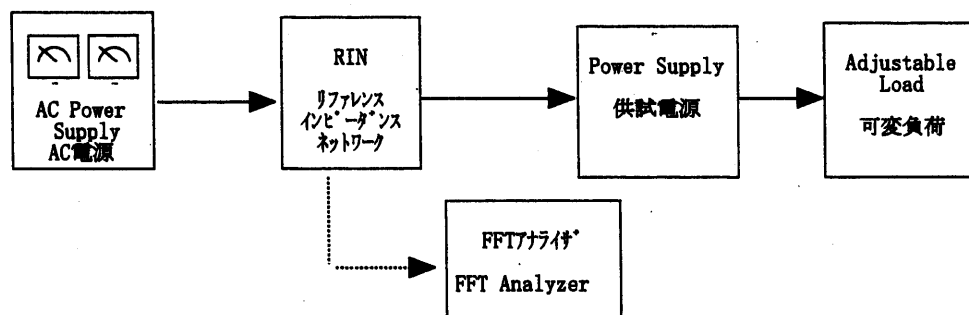


Figure E