



TEST DATA OF R25A-3 (100V INPUT)

Regulated DC Power Supply

Jan. 13, 2000

Approved by : *K. Shibutani*
Design Manager

Prepared by : *Jun Uchiida*
Design Engineer

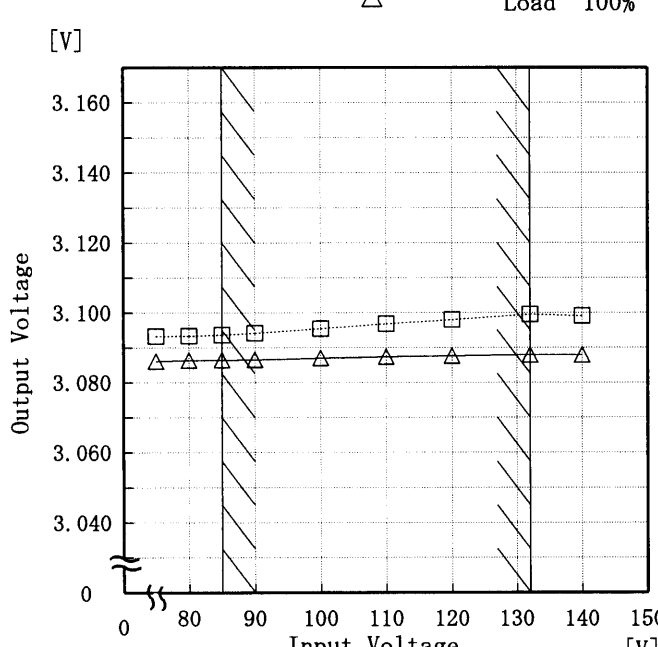
コーセル株式会社
COSEL CO., LTD.

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. Hold-Up Time	6
出力保持時間	
7. Instantaneous Interruption Compensation	7
瞬時停電保障	
8. Load Regulation	8
静的負荷変動	
9. Overcurrent Protection	9
過電流保護	
10. Inrush Current	10
突入電流	
11. Rise and Fall Time	11
立上り、立下り時間	
12. Ambient Temperature Drift	12
周囲温度変動	
13. Minimum Input Voltage for Regulated Output Voltage	13
最低レギュレーション電圧	
14. Time Lapse Drift	14
経時ドリフト	
15. Output Voltage Accuracy	15
定電圧精度	
16. Figure of Testing Circuitry	16
測定回路図	

(Final Page 17)

COSEL

Model R25A-3		Temperature 25°C Testing Circuitry Figure A																																
Item	Line Regulation 静的入力変動																																	
Object	+3.0V5A																																	
<p>1. Graph</p> <p>□ Load 50% △ Load 100%</p>  <p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <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>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>75</td><td>3.093</td><td>3.086</td></tr> <tr><td>80</td><td>3.093</td><td>3.086</td></tr> <tr><td>85</td><td>3.094</td><td>3.086</td></tr> <tr><td>90</td><td>3.094</td><td>3.087</td></tr> <tr><td>100</td><td>3.095</td><td>3.087</td></tr> <tr><td>110</td><td>3.097</td><td>3.087</td></tr> <tr><td>120</td><td>3.098</td><td>3.088</td></tr> <tr><td>132</td><td>3.100</td><td>3.088</td></tr> <tr><td>140</td><td>3.099</td><td>3.088</td></tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	3.093	3.086	80	3.093	3.086	85	3.094	3.086	90	3.094	3.087	100	3.095	3.087	110	3.097	3.087	120	3.098	3.088	132	3.100	3.088	140	3.099	3.088
Input Voltage [V]	Output Voltage [V]																																	
	Load 50%	Load 100%																																
75	3.093	3.086																																
80	3.093	3.086																																
85	3.094	3.086																																
90	3.094	3.087																																
100	3.095	3.087																																
110	3.097	3.087																																
120	3.098	3.088																																
132	3.100	3.088																																
140	3.099	3.088																																

COSEL

Model		R25A-3		Temperature		25°C																																																								
Item		Input Current (by Load Current) 入力電流 (負荷特性)		Testing Circuitry		Figure A																																																								
Object																																																														
1. Graph				2. Values																																																										
<div><div><div>—△—</div><div>—□—</div><div>—○—</div></div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 132V</div></div> <div><div><div>Input Current [A]</div><div>0.5</div><div>0.4</div><div>0.3</div><div>0.2</div><div>0.1</div><div>0</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div>Load Current [A]</div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 100 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.0</td><td>0.022</td><td>0.023</td><td>0.026</td></tr><tr><td>0.8</td><td>0.098</td><td>0.096</td><td>0.095</td></tr><tr><td>1.6</td><td>0.157</td><td>0.147</td><td>0.134</td></tr><tr><td>2.4</td><td>0.218</td><td>0.199</td><td>0.174</td></tr><tr><td>3.2</td><td>0.282</td><td>0.254</td><td>0.216</td></tr><tr><td>4.0</td><td>0.349</td><td>0.311</td><td>0.259</td></tr><tr><td>4.8</td><td>0.418</td><td>0.369</td><td>0.304</td></tr><tr><td>5.0</td><td>0.437</td><td>0.386</td><td>0.317</td></tr><tr><td>5.5</td><td>0.480</td><td>0.422</td><td>0.346</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Input Current [A]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	0.0	0.022	0.023	0.026	0.8	0.098	0.096	0.095	1.6	0.157	0.147	0.134	2.4	0.218	0.199	0.174	3.2	0.282	0.254	0.216	4.0	0.349	0.311	0.259	4.8	0.418	0.369	0.304	5.0	0.437	0.386	0.317	5.5	0.480	0.422	0.346	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Current [A]																																																													
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]																																																											
0.0	0.022	0.023	0.026																																																											
0.8	0.098	0.096	0.095																																																											
1.6	0.157	0.147	0.134																																																											
2.4	0.218	0.199	0.174																																																											
3.2	0.282	0.254	0.216																																																											
4.0	0.349	0.311	0.259																																																											
4.8	0.418	0.369	0.304																																																											
5.0	0.437	0.386	0.317																																																											
5.5	0.480	0.422	0.346																																																											
—	—	—	—																																																											
—	—	—	—																																																											
—	—	—	—																																																											
<div>Note: Slanted line shows the range of the rated load current</div> <div>(注)斜線は定格負荷電流範囲を示す。</div>																																																														

COSEL

Model		R25A-3		Temperature		25℃																																																								
Item		Input Power (by Load Current) 入力電力 (負荷特性)		Testing Circuitry		Figure A																																																								
Object																																																														
1. Graph				2. Values																																																										
<div><div><div>—△—</div><div>—□—</div><div>—○—</div></div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 132V</div></div> <div><div><div>Input Power [W]</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div>Load Current [A]</div></div> <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>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>0.62</td><td>0.71</td><td>1.01</td></tr><tr><td>0.8</td><td>4.12</td><td>4.53</td><td>5.61</td></tr><tr><td>1.6</td><td>7.16</td><td>7.49</td><td>8.39</td></tr><tr><td>2.4</td><td>10.36</td><td>10.63</td><td>11.39</td></tr><tr><td>3.2</td><td>13.77</td><td>13.89</td><td>14.51</td></tr><tr><td>4.0</td><td>17.35</td><td>17.40</td><td>17.77</td></tr><tr><td>4.8</td><td>21.08</td><td>20.98</td><td>21.16</td></tr><tr><td>5.0</td><td>22.11</td><td>21.95</td><td>22.15</td></tr><tr><td>5.5</td><td>24.49</td><td>24.24</td><td>24.30</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	0.62	0.71	1.01	0.8	4.12	4.53	5.61	1.6	7.16	7.49	8.39	2.4	10.36	10.63	11.39	3.2	13.77	13.89	14.51	4.0	17.35	17.40	17.77	4.8	21.08	20.98	21.16	5.0	22.11	21.95	22.15	5.5	24.49	24.24	24.30	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Power [W]																																																													
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																											
0.0	0.62	0.71	1.01																																																											
0.8	4.12	4.53	5.61																																																											
1.6	7.16	7.49	8.39																																																											
2.4	10.36	10.63	11.39																																																											
3.2	13.77	13.89	14.51																																																											
4.0	17.35	17.40	17.77																																																											
4.8	21.08	20.98	21.16																																																											
5.0	22.11	21.95	22.15																																																											
5.5	24.49	24.24	24.30																																																											
—	—	—	—																																																											
—	—	—	—																																																											
—	—	—	—																																																											

COSEL

Model		R25A-3	
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)	
Object			

1. Graph

Load 50%

Load 100%

Efficiency [%]

84

80

76

72

68

64

60

0

80

90

100

110

120

130

140

150

Input Voltage [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]	Efficiency [%]	
	Load 50%	Load 100%
75	70.3	68.0
80	70.2	68.4
85	70.0	68.8
90	69.7	69.2
100	69.5	69.6
110	68.8	70.0
120	68.2	70.4
132	67.5	70.5
140	66.5	70.5

COSEL

Model		R25A-3		Temperature		25℃																																																								
Item		Efficiency (by Load Current) 効率 (負荷特性)		Testing Circuitry		Figure A																																																								
Object																																																														
1. Graph				2. Values																																																										
<div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 132V</div> <p>Efficiency [%]</p> <p>Load Current [A]</p>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.8</td><td>58.2</td><td>53.7</td><td>43.6</td></tr><tr><td>1.6</td><td>68.1</td><td>65.5</td><td>58.6</td></tr><tr><td>2.4</td><td>70.8</td><td>69.3</td><td>64.8</td></tr><tr><td>3.2</td><td>71.3</td><td>70.8</td><td>67.9</td></tr><tr><td>4.0</td><td>70.9</td><td>70.8</td><td>69.4</td></tr><tr><td>4.8</td><td>70.0</td><td>70.5</td><td>69.9</td></tr><tr><td>5.0</td><td>69.8</td><td>70.4</td><td>69.9</td></tr><tr><td>5.5</td><td>69.2</td><td>70.0</td><td>69.9</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Efficiency [%]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.8	58.2	53.7	43.6	1.6	68.1	65.5	58.6	2.4	70.8	69.3	64.8	3.2	71.3	70.8	67.9	4.0	70.9	70.8	69.4	4.8	70.0	70.5	69.9	5.0	69.8	70.4	69.9	5.5	69.2	70.0	69.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Efficiency [%]																																																													
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																											
0.8	58.2	53.7	43.6																																																											
1.6	68.1	65.5	58.6																																																											
2.4	70.8	69.3	64.8																																																											
3.2	71.3	70.8	67.9																																																											
4.0	70.9	70.8	69.4																																																											
4.8	70.0	70.5	69.9																																																											
5.0	69.8	70.4	69.9																																																											
5.5	69.2	70.0	69.9																																																											
—	—	—	—																																																											
—	—	—	—																																																											
—	—	—	—																																																											
—	—	—	—																																																											
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

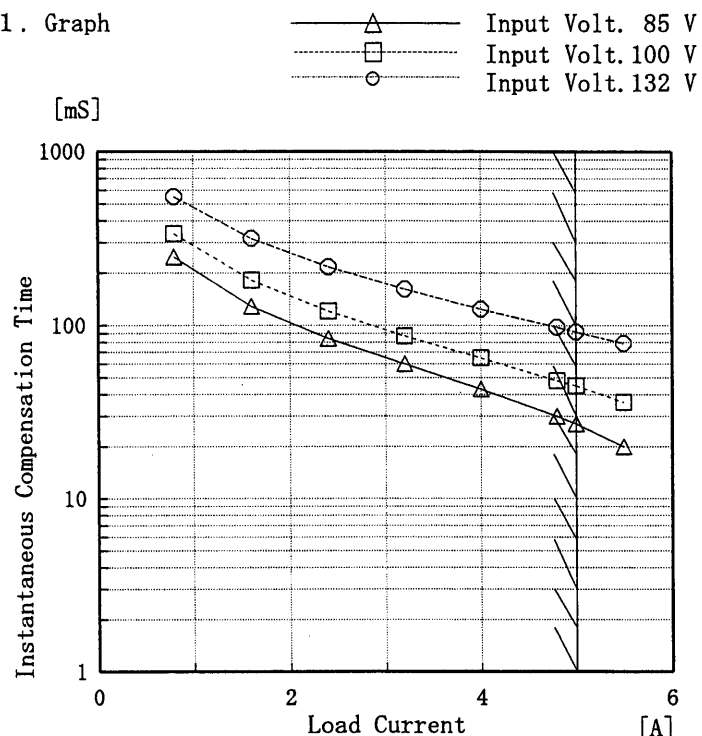
Model R25A-3		Temperature 25°C Testing Circuitry Figure A																																
Item	Hold-Up Time 出力保持時間																																	
Object	+3.0V5A																																	
<p>1. Graph</p> <p>-----□----- Load 50% -----△----- Load 100%</p> <p>[mS]</p> <p>Hold-Up Time</p> <p>Input Voltage [V]</p> <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>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。</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [mS]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>75</td><td>62</td><td>23</td></tr> <tr><td>80</td><td>71</td><td>28</td></tr> <tr><td>85</td><td>82</td><td>33</td></tr> <tr><td>90</td><td>93</td><td>38</td></tr> <tr><td>100</td><td>117</td><td>50</td></tr> <tr><td>110</td><td>143</td><td>63</td></tr> <tr><td>120</td><td>172</td><td>78</td></tr> <tr><td>132</td><td>209</td><td>98</td></tr> <tr><td>140</td><td>236</td><td>112</td></tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	62	23	80	71	28	85	82	33	90	93	38	100	117	50	110	143	63	120	172	78	132	209	98	140	236	112
Input Voltage [V]	Hold-Up Time [mS]																																	
	Load 50%	Load 100%																																
75	62	23																																
80	71	28																																
85	82	33																																
90	93	38																																
100	117	50																																
110	143	63																																
120	172	78																																
132	209	98																																
140	236	112																																

COSEL

Model	R25A-3
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+3.0V5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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。

2. Values

Load Current [A]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	—	—	—
0.8	247	337	551
1.6	129	182	316
2.4	84	121	217
3.2	60	87	162
4.0	43	65	124
4.8	30	48	98
5.0	27	45	92
5.5	20	36	79
—	—	—	—
—	—	—	—

COSEL

Model		R25A-3		Temperature		25℃																																												
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A																																												
Object		+3.0V5A																																																
1. Graph				2. Values																																														
<div><div><div>△</div><div>□</div><div>○</div></div><div>Input Volt. 85 V</div><div>Input Volt.100 V</div><div>Input Volt.132 V</div></div> <div><div><div>Output Voltage</div><div>[V]</div></div><div><div><div>3.240</div><div>3.200</div><div>3.160</div><div>3.120</div><div>3.080</div><div>3.040</div><div>3.000</div><div>0</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div><div>Load Current</div><div>[A]</div></div></div><div><div>Note: Slanted line shows the range of the rated load current.</div><div>(注)斜線は定格負荷電流範囲を示す。</div></div></div> <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>3.105</td><td>3.105</td><td>3.106</td></tr><tr><td>0.8</td><td>3.104</td><td>3.104</td><td>3.108</td></tr><tr><td>1.6</td><td>3.102</td><td>3.104</td><td>3.107</td></tr><tr><td>2.4</td><td>3.095</td><td>3.097</td><td>3.100</td></tr><tr><td>3.2</td><td>3.092</td><td>3.092</td><td>3.095</td></tr><tr><td>4.0</td><td>3.091</td><td>3.091</td><td>3.091</td></tr><tr><td>4.8</td><td>3.088</td><td>3.088</td><td>3.089</td></tr><tr><td>5.0</td><td>3.087</td><td>3.087</td><td>3.088</td></tr><tr><td>5.5</td><td>3.085</td><td>3.085</td><td>3.087</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	3.105	3.105	3.106	0.8	3.104	3.104	3.108	1.6	3.102	3.104	3.107	2.4	3.095	3.097	3.100	3.2	3.092	3.092	3.095	4.0	3.091	3.091	3.091	4.8	3.088	3.088	3.089	5.0	3.087	3.087	3.088	5.5	3.085	3.085	3.087	—	—	—	—
Load Current [A]	Output Voltage [V]																																																	
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																															
0.0	3.105	3.105	3.106																																															
0.8	3.104	3.104	3.108																																															
1.6	3.102	3.104	3.107																																															
2.4	3.095	3.097	3.100																																															
3.2	3.092	3.092	3.095																																															
4.0	3.091	3.091	3.091																																															
4.8	3.088	3.088	3.089																																															
5.0	3.087	3.087	3.088																																															
5.5	3.085	3.085	3.087																																															
—	—	—	—																																															

COSEL

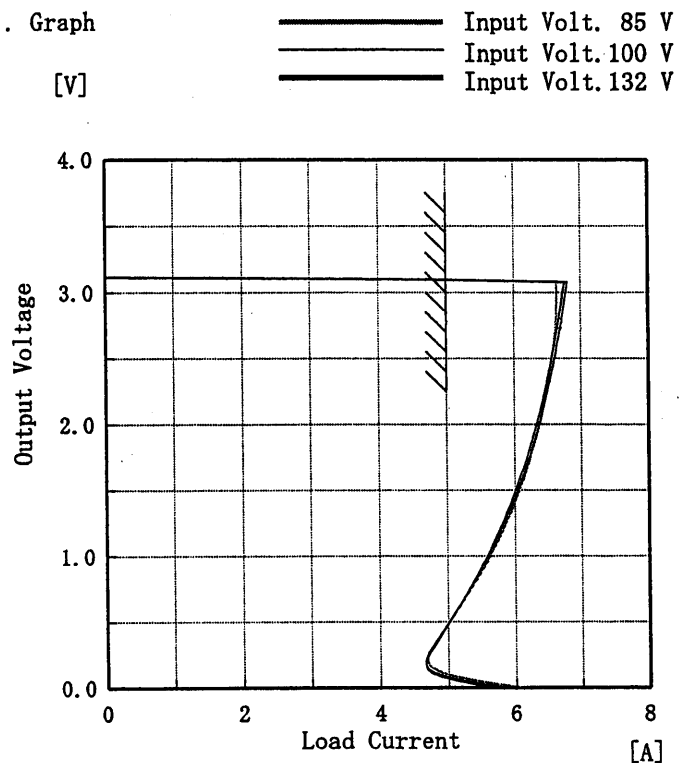
Model R25A-3

Item Overcurrent Protection
過電流保護

Object +3.0V5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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

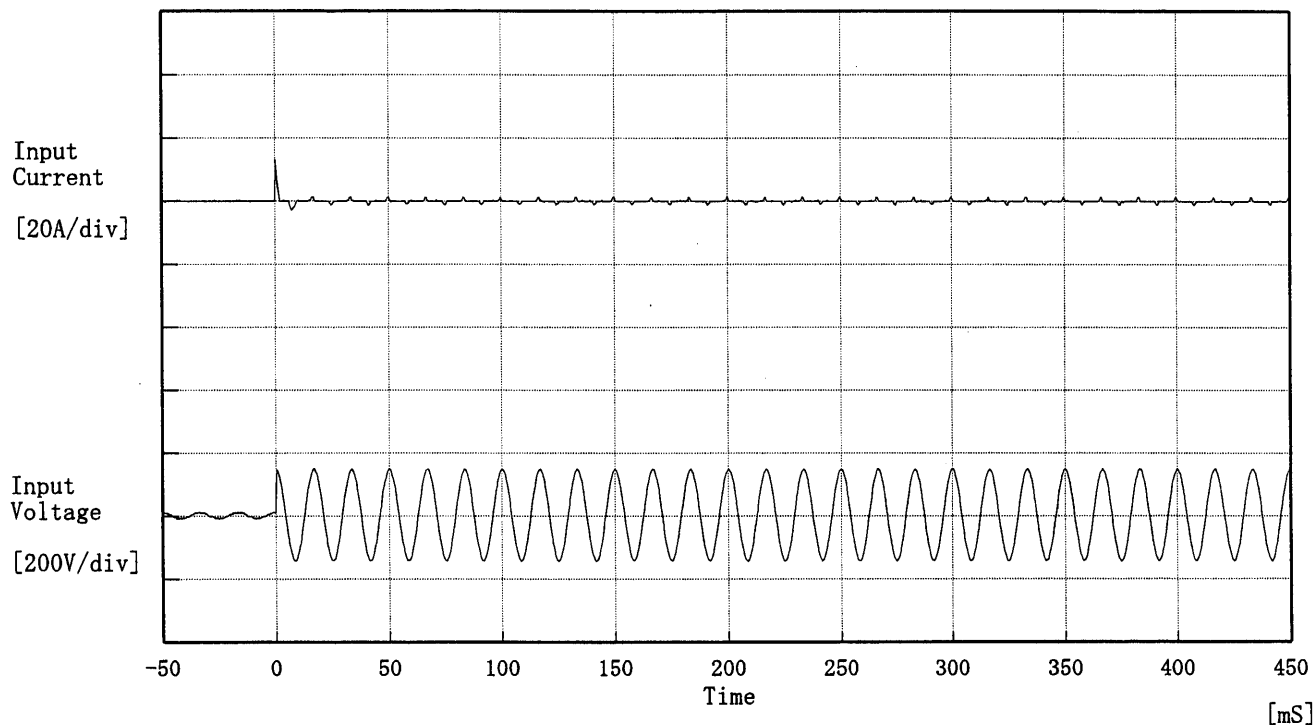
(注) 斜線は定格負荷電流範囲を示す。

2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
3.00	6.65	6.78	6.73
2.85	6.64	6.73	6.69
2.70	6.62	6.69	6.64
2.40	6.54	6.57	6.53
2.10	6.42	6.43	6.38
1.80	6.28	6.27	6.23
1.50	6.09	6.06	6.03
1.20	5.84	5.80	5.78
0.90	5.53	5.50	5.49
0.60	5.16	5.14	5.15
0.30	4.80	4.78	4.81
0.00	6.10	5.90	5.75

COSEL

Model	R25A-3	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object			



Input Voltage 100 V

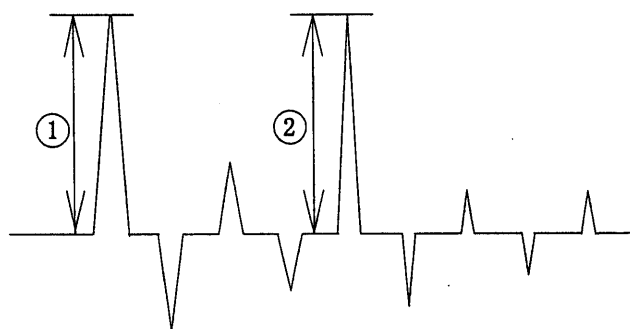
Frequency 60 Hz

Load 100 %

Inrush Current

① 13.19 [A]

② 1.21 [A]

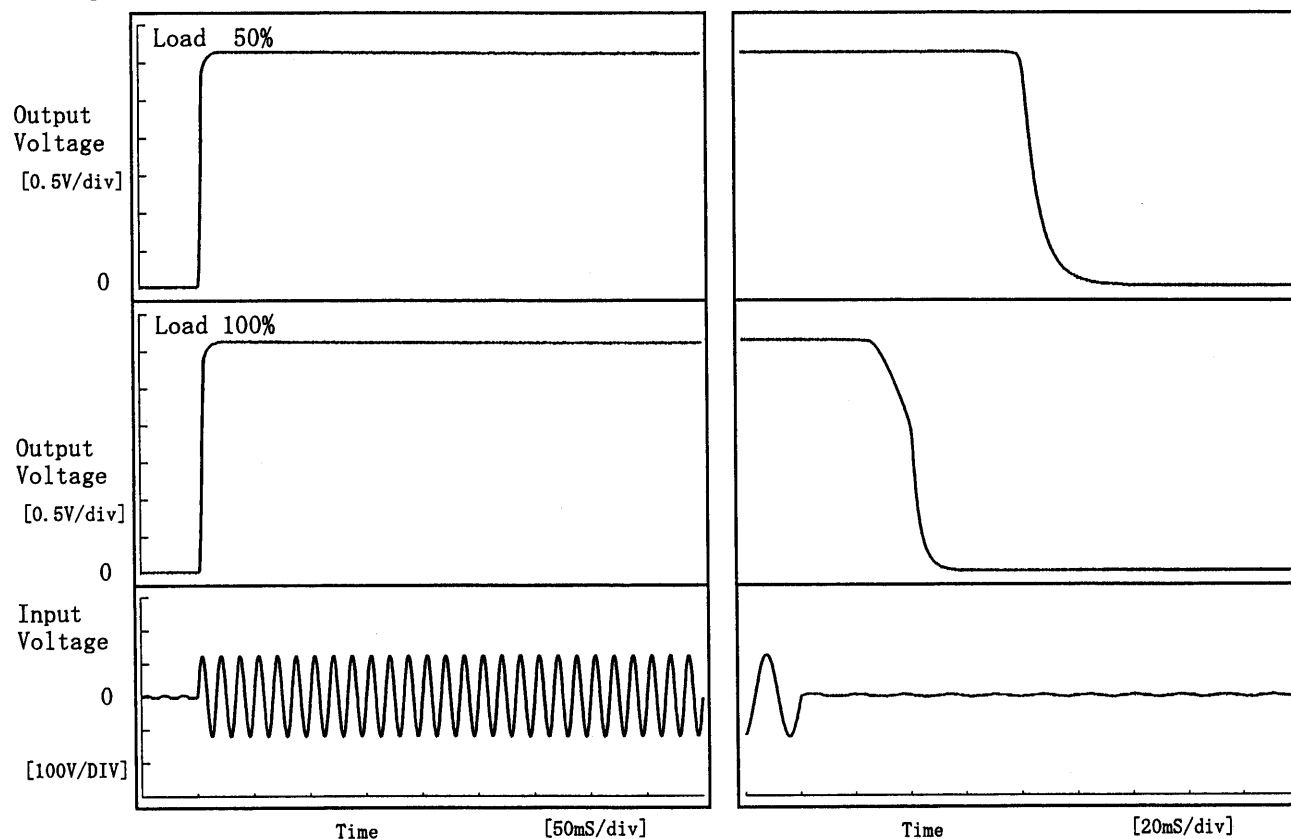


COSEL

Model	R25A-3	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+3.0V5A		

1. Graph

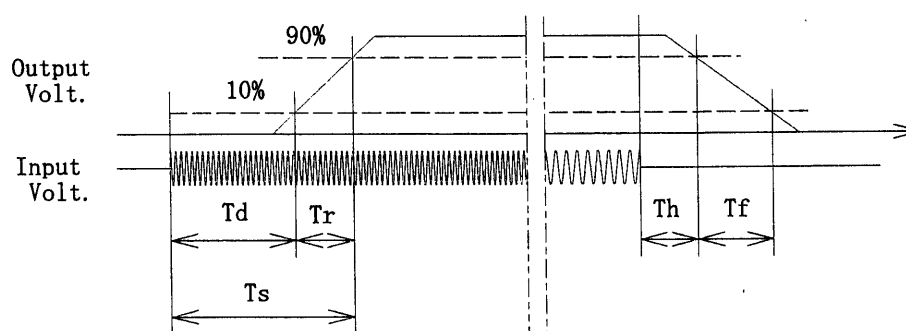
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.3	2.8	6.0	82.0	12.8
100 %	3.3	3.8	7.0	33.1	13.4



COSEL

Model		R25A-3
Item	Ambient Temperature Drift 周囲温度変動	
Object	+3.0V5A	

1. Graph

△

—

Input Volt. 85V

□

- - -

Input Volt. 100V

○

- - -

Input Volt. 132V

Output Voltage [V]

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990

0

30

50

70

3.230

3.190

3.150

3.110

3.070

3.030

2.990</

COSEL

Model		R25A-3	
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	
Object		+3.0V5A	
1. Graph		2. Values	

□

Load 50%

△

Load 100%

Input Voltage
[V]

100.0

80.0

60.0

40.0

20.0

0.0

-30

-10

10

30

50

70

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。

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	30	52
-10	30	52
0	29	53
10	29	53
20	29	54
25	28	54
30	28	55
40	28	56
50	28	57
60	28	58
—	—	—

COSEL

COSEL																									
Model	R25A-3																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
Object	+3.0V5A	Testing Circuitry	Figure A																						
1. Graph		2.Values																							
<div>[V]</div> <div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>3.089</td></tr><tr><td>0.5</td><td>3.087</td></tr><tr><td>1.0</td><td>3.087</td></tr><tr><td>2.0</td><td>3.087</td></tr><tr><td>3.0</td><td>3.087</td></tr><tr><td>4.0</td><td>3.087</td></tr><tr><td>5.0</td><td>3.087</td></tr><tr><td>6.0</td><td>3.087</td></tr><tr><td>7.0</td><td>3.087</td></tr><tr><td>8.0</td><td>3.087</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	3.089	0.5	3.087	1.0	3.087	2.0	3.087	3.0	3.087	4.0	3.087	5.0	3.087	6.0	3.087	7.0	3.087	8.0	3.087
Time since start [H]	Output Voltage [V]																								
0.0	3.089																								
0.5	3.087																								
1.0	3.087																								
2.0	3.087																								
3.0	3.087																								
4.0	3.087																								
5.0	3.087																								
6.0	3.087																								
7.0	3.087																								
8.0	3.087																								

COSEL

Model	R25A-3	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+3.0V5A	

1. 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 : 0~5 A

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

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

1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、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 0~5 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) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

2. Values

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	3.114	±17	±0.6
Minimum Voltage	50	85	5	3.081		

COSEL

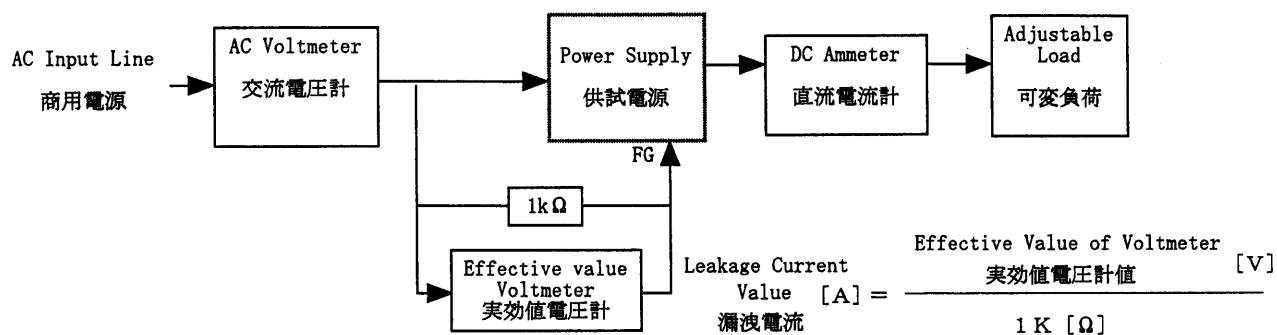
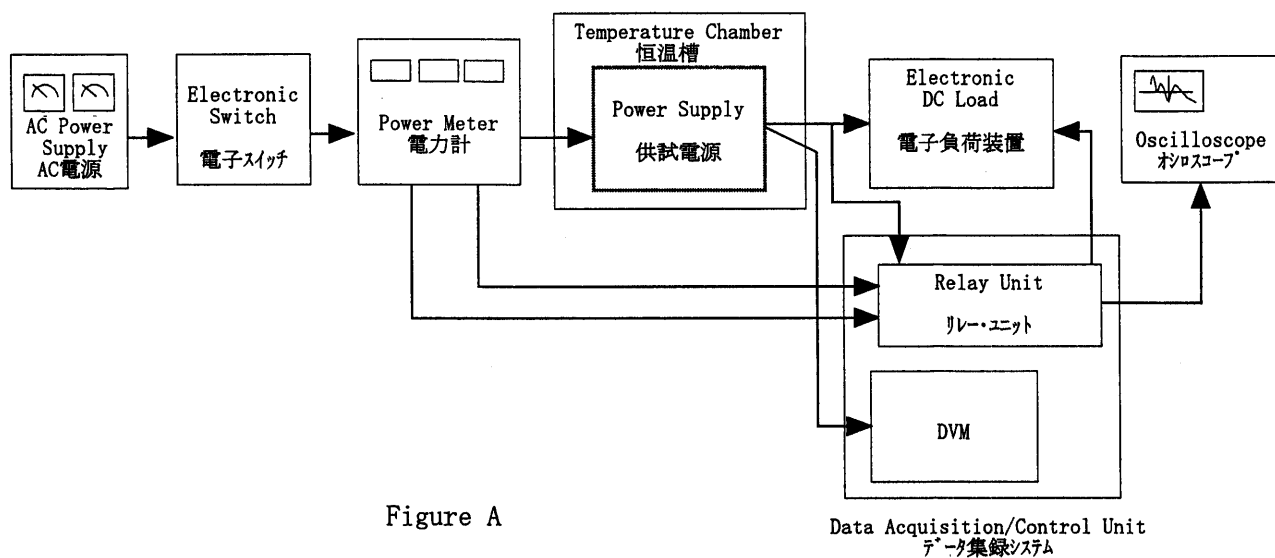


Figure B (DENTORI)

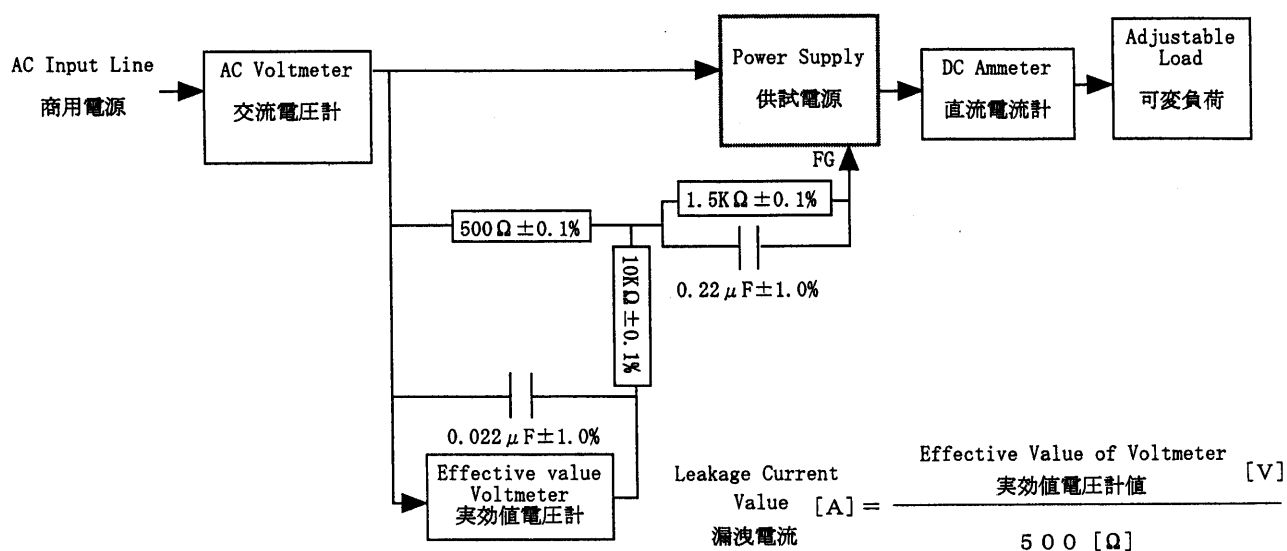


Figure B (IEC 60950)

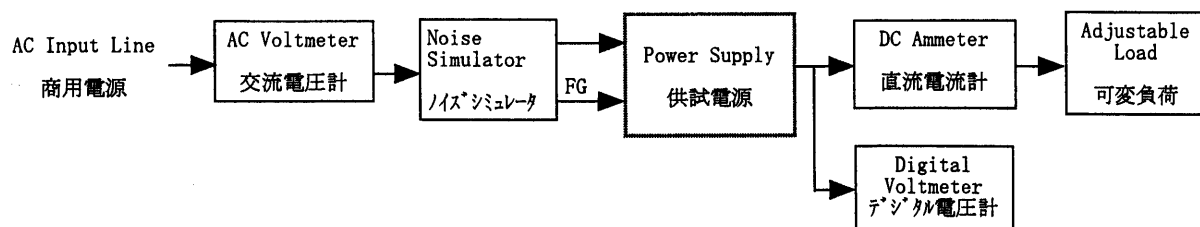


Figure C

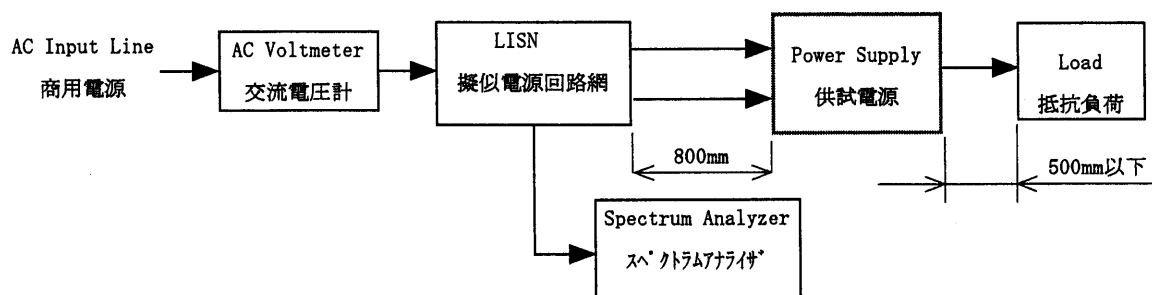


Figure D

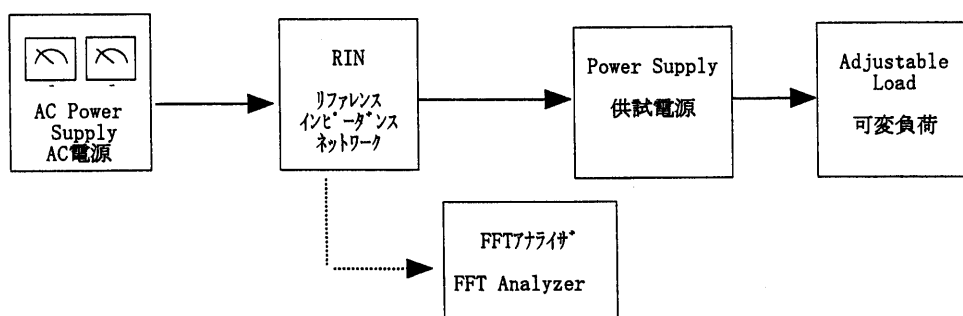


Figure E