



TEST DATA OF R100-3 (100V INPUT)

Regulated DC Power Supply

Jan. 24, 2000

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Design Manager

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コーセル株式会社
COSEL CO., LTD.

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Model		R100-3	Temperature25℃ Testing CircuitryFigure A																																
Item		Line Regulation 静的入力変動																																	
Object		+3.0V20A																																	
1. Graph <div><div><div>□-----</div><div>△-----</div></div><div>Load 50% Load 100%</div><div><div>Output Voltage [V]</div><div><div><div>3.150</div><div>3.130</div><div>3.110</div><div>3.090</div><div>3.070</div><div>3.050</div><div>3.030</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 [V]</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>																																			
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Model		R100-3	
Item	Input Current (by Load Current) 入力電流（負荷特性）		
Object	_____		

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

[A]

5

4

3

2

1

0

Input Current

0

5

10

15

20

25

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。

Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	0.058	0.062	0.070
4	0.462	0.423	0.370
8	0.818	0.735	0.618
12	1.163	1.040	0.861
16	1.511	1.348	1.108
20	1.860	1.654	1.355
22	2.042	1.816	1.486
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

2. Values

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Model		R100-3		Temperature25℃ Testing CircuitryFigure A																																																								
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Item		Efficiency (by Input Voltage) 効率（入力電圧特性）		Testing Circuitry		Figure A																															
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<div><div><div>-----□-----</div><div>Load 50%</div></div><div><div>-----△-----</div><div>Load 100%</div></div></div> <div><div>Efficiency [%]</div><div>86</div><div>82</div><div>78</div><div>74</div><div>70</div><div>66</div><div>62</div><div>0</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>Input Voltage [V]</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50% Efficiency [%]</th><th>Load 100% Efficiency [%]</th></tr></thead><tbody><tr><td>75</td><td>77.0</td><td>75.0</td></tr><tr><td>80</td><td>77.0</td><td>75.4</td></tr><tr><td>85</td><td>76.6</td><td>75.7</td></tr><tr><td>90</td><td>76.6</td><td>75.9</td></tr><tr><td>100</td><td>75.8</td><td>76.0</td></tr><tr><td>110</td><td>75.5</td><td>76.1</td></tr><tr><td>120</td><td>74.0</td><td>75.8</td></tr><tr><td>132</td><td>72.8</td><td>75.5</td></tr><tr><td>140</td><td>72.4</td><td>75.2</td></tr></tbody></table> <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>				Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]	75	77.0	75.0	80	77.0	75.4	85	76.6	75.7	90	76.6	75.9	100	75.8	76.0	110	75.5	76.1	120	74.0	75.8	132	72.8	75.5	140	72.4	75.2				
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Model		R100-3	Temperature25℃ Testing CircuitryFigure A																															
Item		Hold-Up Time 出力保持時間																																
Object		+3.0V20A																																
1. Graph		<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <p>[mS]</p> <p>1000</p> <p>100</p> <p>10</p> <p>1</p> <p>0 80 90 100 110 120 130 140 150</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>	2. Values																															
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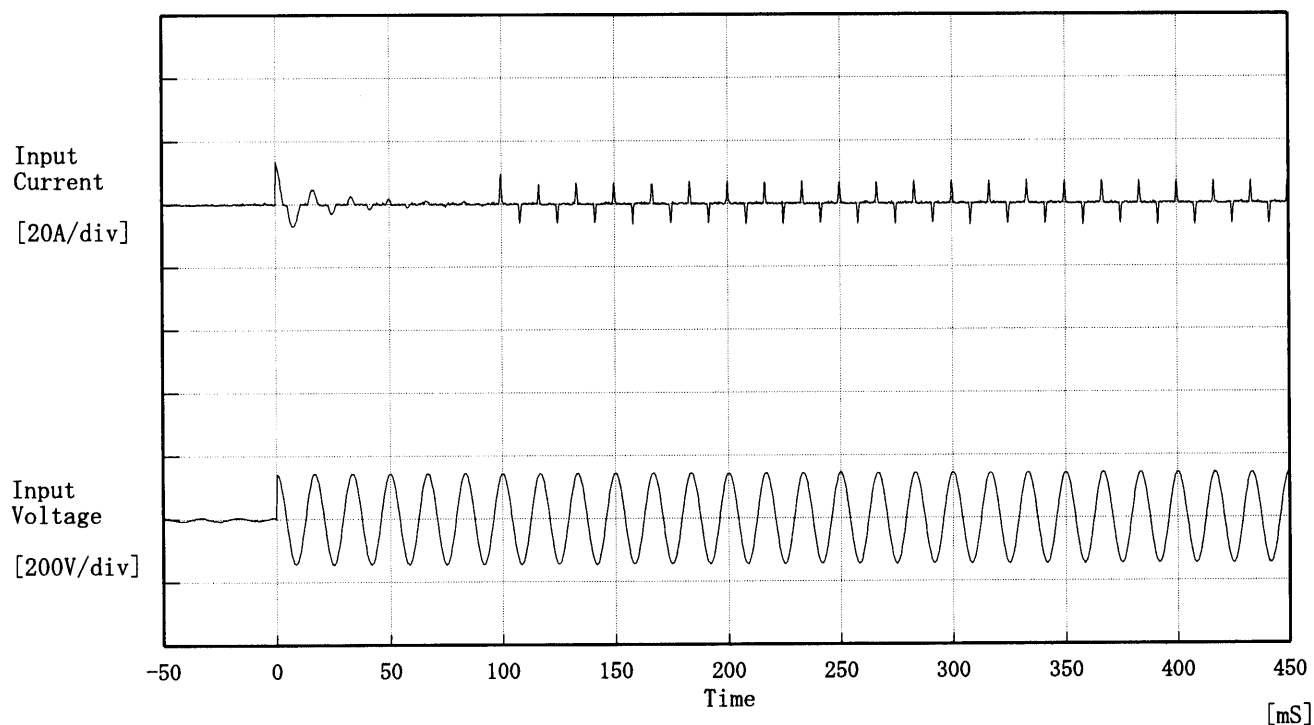
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Object		+3.0V20A																																																													
1. Graph			2. Values																																																												
<div><div>[V]</div><div><div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div></div><div><div>4.0</div><div>3.0</div><div>2.0</div><div>1.0</div><div>0.0</div></div><div><div>Output Voltage</div><div>0</div><div>10</div><div>20</div><div>30</div><div>[A]</div></div><div><div>Load Current</div><div>0.0</div><div>10.0</div><div>20.0</div><div>30.0</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>			<table><tr><th rowspan="3">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt.</th><th>Input Volt.</th><th>Input Volt.</th></tr><tr><th>85[V]</th><th>100[V]</th><th>132[V]</th></tr><tr><td>3.00</td><td>25.45</td><td>25.49</td><td>25.52</td></tr><tr><td>2.85</td><td>25.46</td><td>25.47</td><td>25.56</td></tr><tr><td>2.70</td><td>25.46</td><td>25.43</td><td>25.52</td></tr><tr><td>2.40</td><td>25.42</td><td>25.50</td><td>25.57</td></tr><tr><td>2.10</td><td>25.47</td><td>25.48</td><td>25.57</td></tr><tr><td>1.80</td><td>25.50</td><td>25.48</td><td>25.55</td></tr><tr><td>1.50</td><td>25.56</td><td>25.49</td><td>25.73</td></tr><tr><td>1.20</td><td>25.63</td><td>25.61</td><td>25.61</td></tr><tr><td>0.90</td><td>25.58</td><td>25.50</td><td>25.50</td></tr><tr><td>0.60</td><td>25.47</td><td>25.38</td><td>25.33</td></tr><tr><td>0.30</td><td>25.27</td><td>25.06</td><td>24.93</td></tr><tr><td>0.00</td><td>25.04</td><td>24.92</td><td>24.98</td></tr></table>			Output Voltage [V]	Load Current [A]			Input Volt.	Input Volt.	Input Volt.	85[V]	100[V]	132[V]	3.00	25.45	25.49	25.52	2.85	25.46	25.47	25.56	2.70	25.46	25.43	25.52	2.40	25.42	25.50	25.57	2.10	25.47	25.48	25.57	1.80	25.50	25.48	25.55	1.50	25.56	25.49	25.73	1.20	25.63	25.61	25.61	0.90	25.58	25.50	25.50	0.60	25.47	25.38	25.33	0.30	25.27	25.06	24.93	0.00	25.04	24.92	24.98
Output Voltage [V]	Load Current [A]																																																														
	Input Volt.	Input Volt.	Input Volt.																																																												
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COSEL

Model	R100-3	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100 V

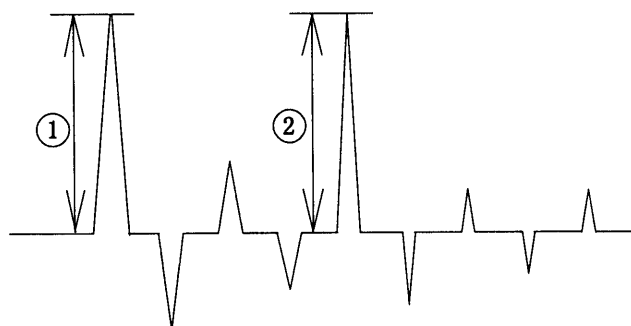
Frequency 60 Hz

Load 100 %

Inrush Current

① 13.44 [A]

② 9.44 [A]

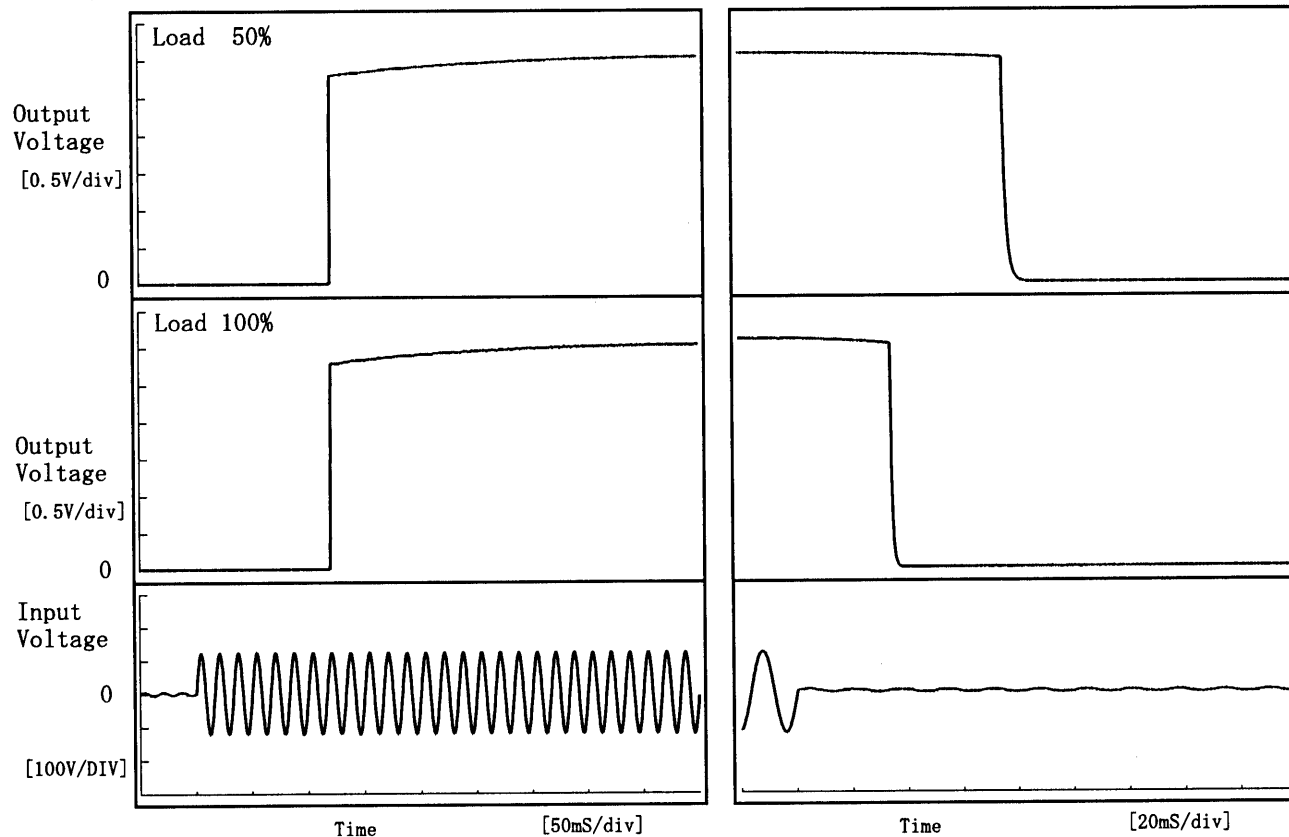


COSEL

Model	R100-3	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+3.0V20A		

1. Graph

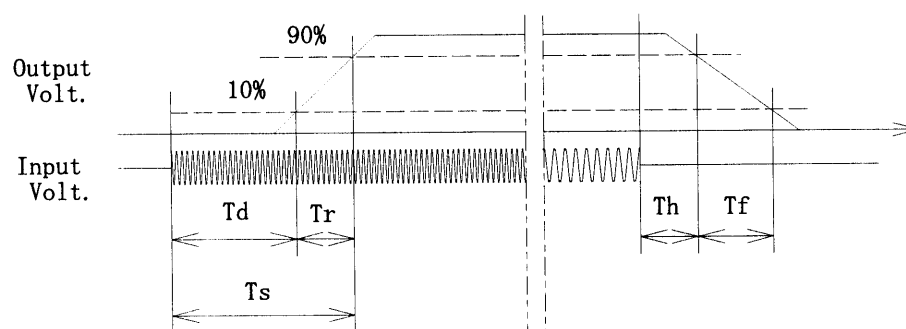
Input Volt. 85 V



2. Values

[mS]

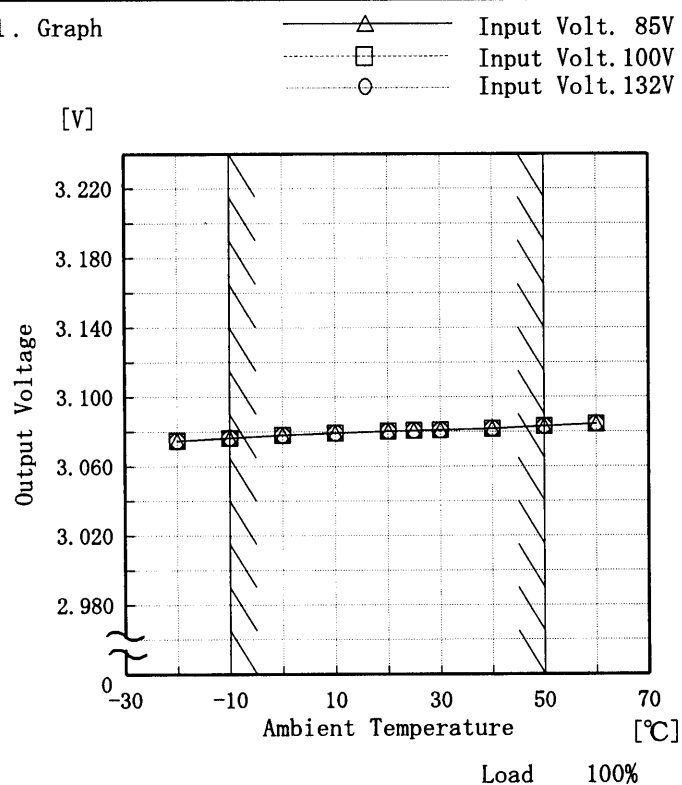
Load \ Time	T d	T r	T s	T h	T f
50 %	120.0	0.8	120.8	75.2	3.0
100 %	120.0	0.8	120.8	34.5	1.5



COSEL

Model	R100-3
Item	Ambient Temperature Drift 周囲温度変動
Object	+3.0V20A

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 Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	3.075	3.075	3.075
-10	3.076	3.076	3.077
0	3.078	3.078	3.078
10	3.079	3.079	3.079
20	3.080	3.080	3.080
25	3.081	3.081	3.081
30	3.081	3.081	3.081
40	3.082	3.082	3.082
50	3.083	3.083	3.083
60	3.084	3.084	3.085
—	—	—	—

COSEL

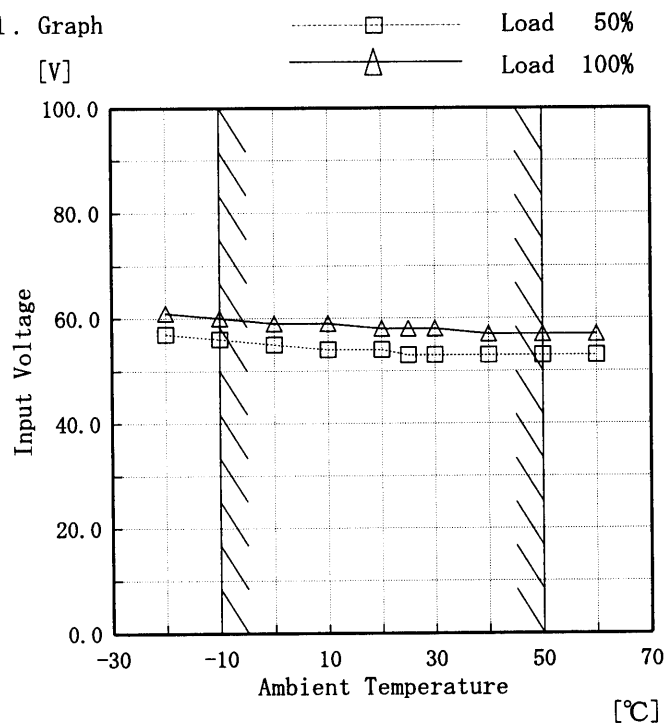
Model R100-3

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

Object +3.0V20A

Testing Circuitry Figure A

1. Graph



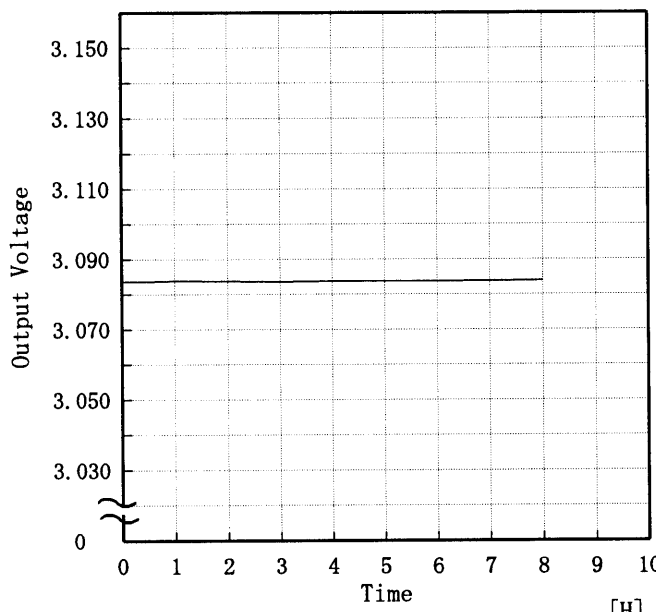
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	57	61
-10	56	60
0	55	59
10	54	59
20	54	58
25	53	58
30	53	58
40	53	57
50	53	57
60	53	57
—	—	—

COSEL

COSEL																									
Model	R100-3																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
		Testing Circuitry	Figure A																						
Object	+3.0V20A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Input Volt. 100V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>3.083</td></tr><tr><td>0.5</td><td>3.084</td></tr><tr><td>1.0</td><td>3.084</td></tr><tr><td>2.0</td><td>3.084</td></tr><tr><td>3.0</td><td>3.084</td></tr><tr><td>4.0</td><td>3.084</td></tr><tr><td>5.0</td><td>3.084</td></tr><tr><td>6.0</td><td>3.084</td></tr><tr><td>7.0</td><td>3.084</td></tr><tr><td>8.0</td><td>3.084</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	3.083	0.5	3.084	1.0	3.084	2.0	3.084	3.0	3.084	4.0	3.084	5.0	3.084	6.0	3.084	7.0	3.084	8.0	3.084
Time since start [H]	Output Voltage [V]																								
0.0	3.083																								
0.5	3.084																								
1.0	3.084																								
2.0	3.084																								
3.0	3.084																								
4.0	3.084																								
5.0	3.084																								
6.0	3.084																								
7.0	3.084																								
8.0	3.084																								

COSEL

		Testing Circuitry Figure A
Model	R100-3	
Item	Output Voltage Accuracy 定電圧精度	
Object	+3.0V20A	

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 : 0~20 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 0~20 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	50	100	20	3.083	±5	±0.2
Minimum Voltage	-10	85	0	3.073		

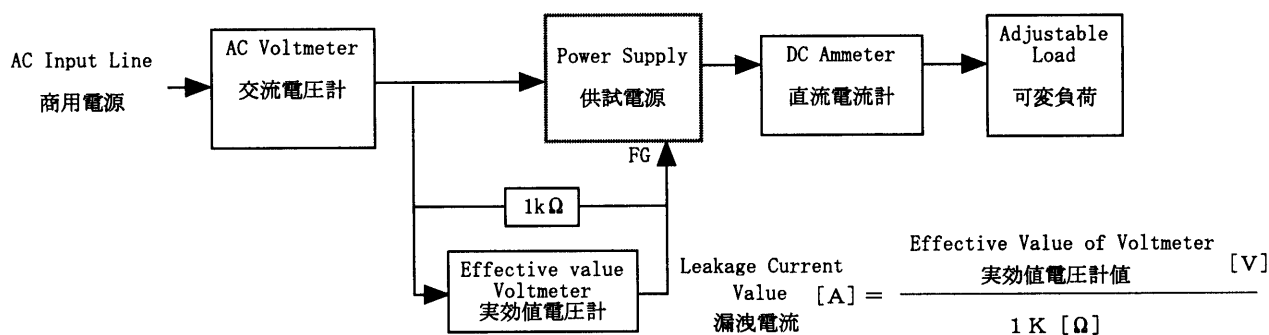
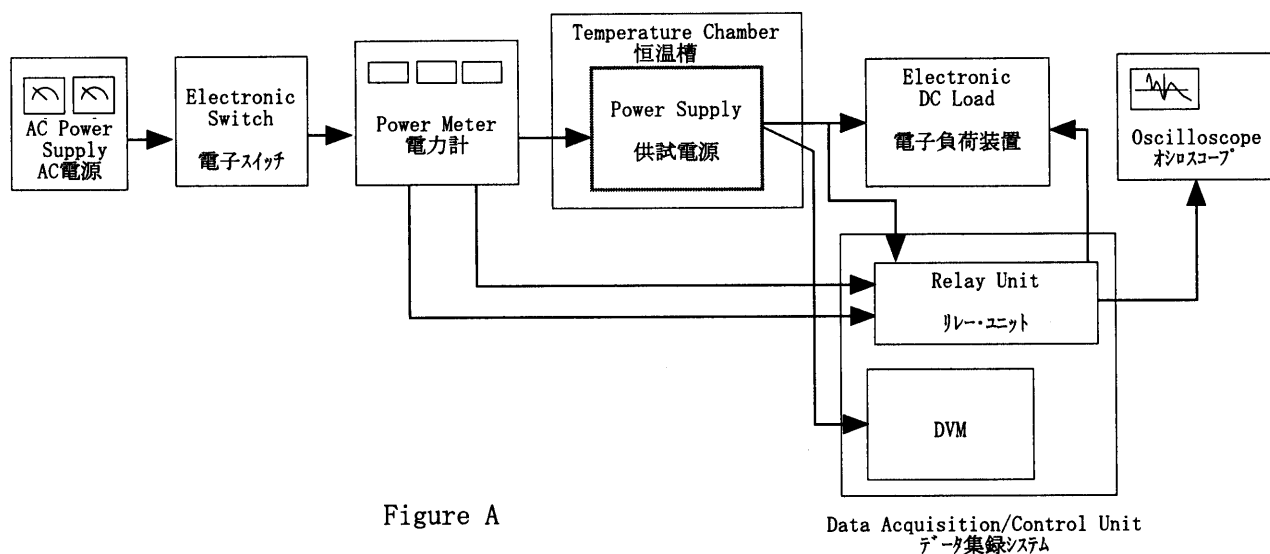


Figure B (DENTORI)

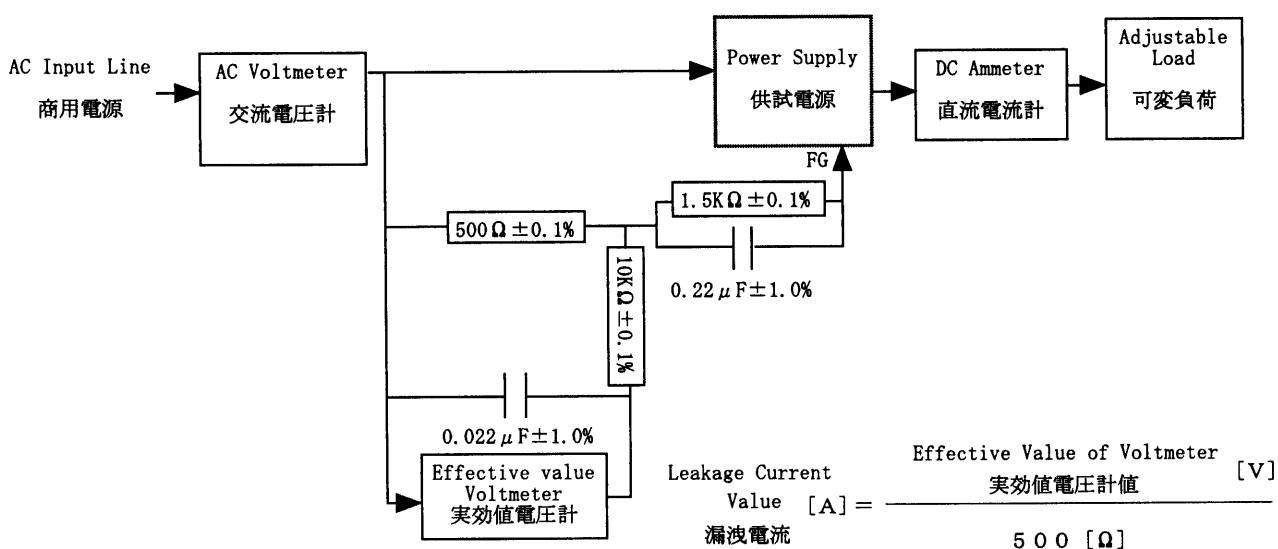


Figure B (IEC 60950)

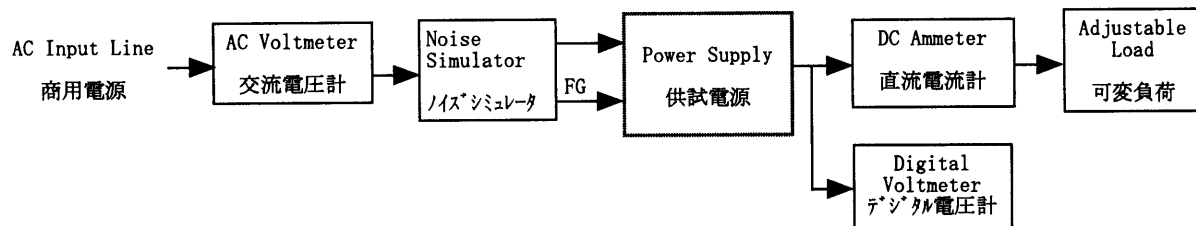


Figure C

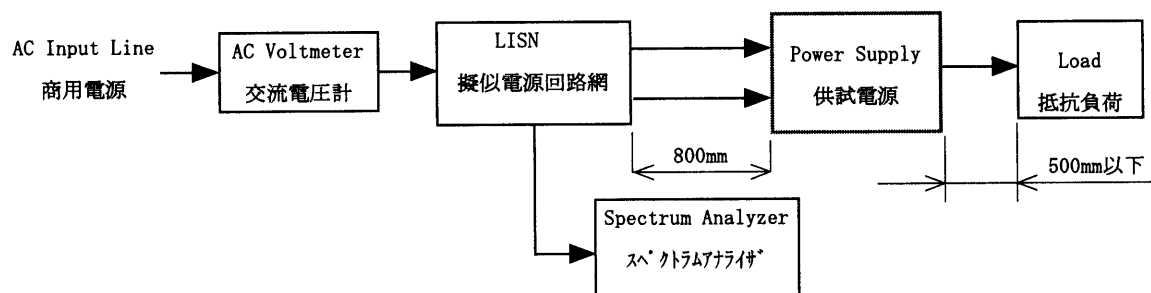


Figure D

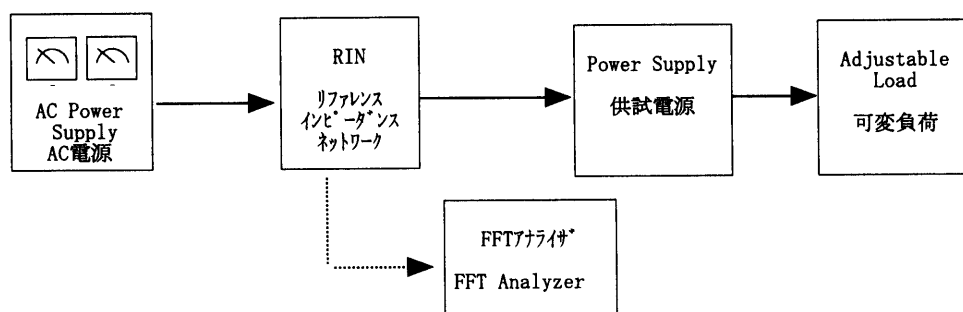


Figure E