

**COSEL**

TEST DATA OF VAF1024  
(200V INPUT)

Regulated DC Power Supply

Nov. 9, 1999

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Design Manager

Prepared by : T. Yamashina  
Design Engineer

コーセル株式会社  
**COSEL CO., LTD.**



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

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# COSEL

Model	VAF1024	Temperature	25°C																																
Item	Hold-Up Time 出力保持時間	Testing Circuitry	Figure A																																
Object	+24.0V 0.45A																																		
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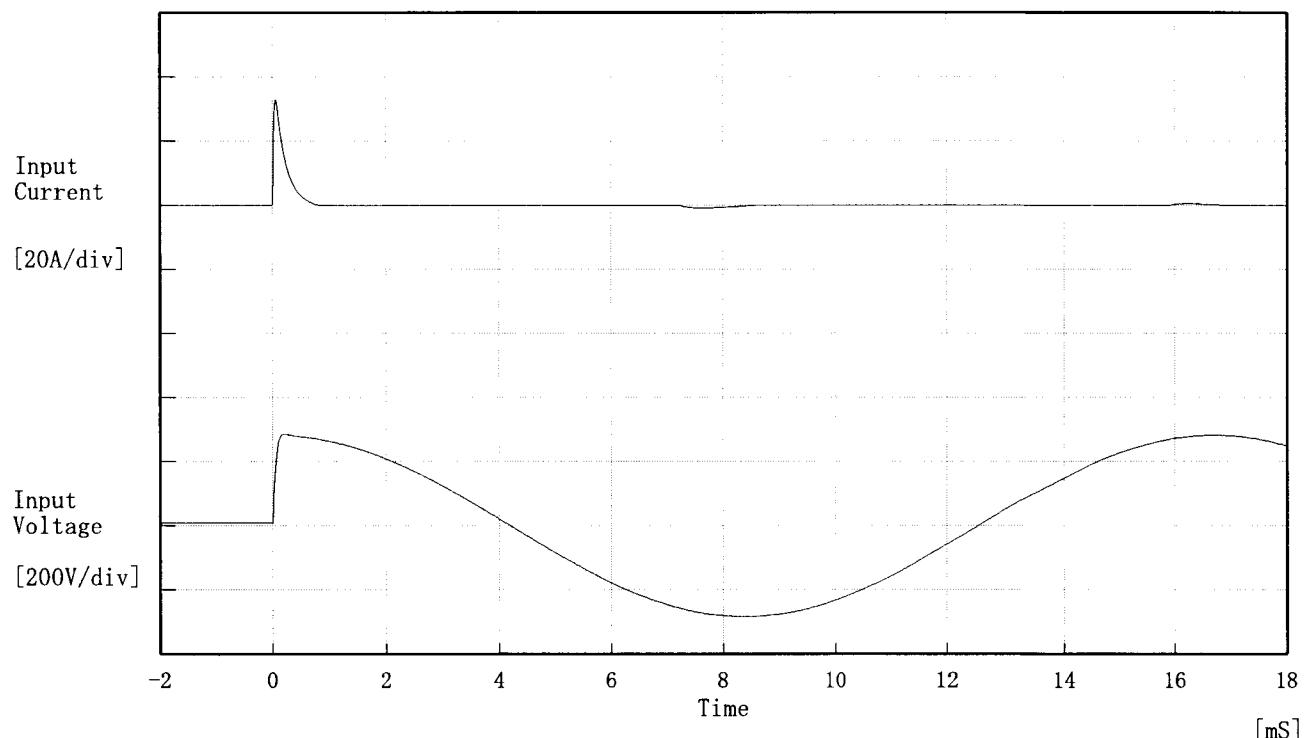
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[V]	0.0	24.0	24.0	24.0	0.5	24.0	24.0	24.0	1.0	24.0	24.0	24.0	1.2	24.0	24.0	24.0	1.3	24.0	24.0	24.0	1.4	24.0	24.0	24.0	1.5	24.0	24.0	24.0	1.6	24.0	24.0	24.0	1.7	24.0	24.0	24.0	1.8	24.0	24.0	24.0	1.9	24.0	24.0	24.0	2.0	24.0	24.0	24.0	2.1	24.0	24.0	24.0	2.2	24.0	24.0	24.0	2.3	24.0	24.0	24.0	2.4	24.0	24.0	24.0	2.5	24.0	24.0	24.0	2.6	24.0	24.0	24.0	2.7	24.0	24.0	24.0	2.8	24.0	24.0	24.0	2.9	24.0	24.0	24.0	3.0	24.0	24.0	24.0	3.1	24.0	24.0	24.0	3.2	24.0	24.0	24.0	3.3	24.0	24.0	24.0	3.4	24.0	24.0	24.0	3.5	24.0	24.0	24.0	3.6	24.0	24.0	24.0	3.7	24.0	24.0	24.0	3.8	24.0	24.0	24.0	3.9	24.0	24.0	24.0	4.0	24.0	24.0	24.0	4.1	24.0	24.0	24.0	4.2	24.0	24.0	24.0	4.3	24.0	24.0	24.0	4.4	24.0	24.0	24.0	4.5	24.0	24.0	24.0	4.6	24.0	24.0	24.0	4.7	24.0	24.0	24.0	4.8	24.0	24.0	24.0	4.9	24.0	24.0	24.0	5.0	24.0	24.0	24.0	5.1	24.0	24.0	24.0	5.2	24.0	24.0	24.0	5.3	24.0	24.0	24.0	5.4	24.0	24.0	24.0	5.5	24.0	24.0	24.0	5.6	24.0	24.0	24.0	5.7	24.0	24.0	24.0	5.8	24.0	24.0	24.0	5.9	24.0	24.0	24.0	6.0	24.0	24.0	24.0	6.1	24.0	24.0	24.0	6.2	24.0	24.0	24.0	6.3	24.0	24.0	24.0	6.4	24.0	24.0	24.0	6.5	24.0	24.0	24.0	6.6	24.0	24.0	24.0	6.7	24.0	24.0	24.0	6.8	24.0	24.0	24.0	6.9	24.0	24.0	24.0	7.0	24.0	24.0	24.0	7.1	24.0	24.0	24.0	7.2	24.0	24.0	24.0	7.3	24.0	24.0	24.0	7.4	24.0	24.0	24.0	7.5	24.0	24.0	24.0	7.6	24.0	24.0	24.0	7.7	24.0	24.0	24.0	7.8	24.0	24.0	24.0	7.9	24.0	24.0	24.0	8.0	24.0	24.0	24.0	8.1	24.0	24.0	24.0	8.2	24.0	24.0	24.0	8.3	24.0	24.0	24.0	8.4	24.0	24.0	24.0	8.5	24.0	24.0	24.0	8.6	24.0	24.0	24.0	8.7	24.0	24.0	24.0	8.8	24.0	24.0	24.0	8.9	24.0	24.0	24.0	9.0	24.0	24.0	24.0	9.1	24.0	24.0	24.0	9.2	24.0	24.0	24.0	9.3	24.0	24.0	24.0	9.4	24.0	24.0	24.0	9.5	24.0	24.0	24.0	9.6	24.0	24.0	24.0	9.7	24.0	24.0	24.0	9.8	24.0	24.0	24.0	9.9	24.0	24.0	24.0	10.0	24.0	24.0	24.0	10.1	24.0	24.0	24.0	10.2	24.0	24.0	24.0	10.3	24.0	24.0	24.0	10.4	24.0	24.0	24.0	10.5	24.0	24.0	24.0	10.6	24.0	24.0	24.0	10.7	24.0	24.0	24.0	10.8	24.0	24.0	24.0	10.9	24.0	24.0	24.0	11.0	24.0	24.0	24.0	11.1	24.0	24.0	24.0	11.2	24.0	24.0	24.0	11.3	24.0	24.0	24.0	11.4	24.0	24.0	24.0	11.5	24.0	24.0	24.0	11.6	24.0	24.0	24.0	11.7	24.0	24.0	24.0	11.8	24.0	24.0	24.0	11.9	24.0	24.0	24.0	12.0	24.0	24.0	24.0	12.1	24.0	24.0	24.0	12.2	24.0	24.0	24.0	12.3	24.0	24.0	24.0	12.4	24.0	24.0	24.0	12.5	24.0	24.0	24.0	12.6	24.0	24.0	24.0	12.7	24.0	24.0	24.0	12.8	24.0	24.0	24.0	12.9	24.0	24.0	24.0	13.0	24.0	24.0	24.0	13.1	24.0	24.0	24.0	13.2	24.0	24.0	24.0	13.3	24.0	24.0	24.0	13.4	24.0	24.0	24.0	13.5	24.0	24.0	24.0	13.6	24.0	24.0	24.0	13.7	24.0	24.0	24.0	13.8	24.0	24.0	24.0	13.9	24.0	24.0	24.0	14.0	24.0	24.0	24.0	14.1	24.0	24.0	24.0	14.2	24.0	24.0	24.0	14.3	24.0	24.0	24.0	14.4	24.0	24.0	24.0	14.5	24.0	24.0	24.0	14.6	24.0	24.0	24.0	14.7	24.0	24.0	24.0	14.8	24.0	24.0	24.0	14.9	24.0	24.0	24.0	15.0	24.0	24.0	24.0	15.1	24.0	24.0	24.0	15.2	24.0	24.0	24.0	15.3	24.0	24.0	24.0	15.4	24.0	24.0	24.0	15.5	24.0	24.0	24.0	15.6	24.0	24.0	24.0	15.7	24.0	24.0	24.0	15.8	24.0	24.0	24.0	15.9	24.0	24.0	24.0	16.0	24.0	24.0	24.0	16.1	24.0	24.0	24.0	16.2	24.0	24.0	24.0	16.3	24.0	24.0	24.0	16.4	24.0	24.0	24.0	16.5	24.0	24.0	24.0	16.6	24.0	24.0	24.0	16.7	24.0	24.0	24.0	16.8	24.0	24.0	24.0	16.9	24.0	24.0	24.0	17.0	24.0	24.0	24.0	17.1	24.0	24.0	24.0	17.2	24.0	24.0	24.0	17.3	24.0	24.0	24.0	17.4	24.0	24.0	24.0	17.5	24.0	24.0	24.0	17.6	24.0	24.0	24.0	17.7	24.0	24.0	24.0	17.8	24.0	24.0	24.0	17.9	24.0	24.0	24.0	18.0	24.0	24.0	24.0	18.1	24.0	24.0	24.0	18.2	24.0	24.0	24.0	18.3	24.0	24.0	24.0	18.4	24.0	24.0	24.0	18.5	24.0	24.0	24.0	18.6	24.0	24.0	24.0	18.7	24.0	24.0	24.0	18.8	24.0	24.0	24.0	18.9	24.0	24.0	24.0	19.0	24.0	24.0	24.0	19.1	24.0	24.0	24.0	19.2	24.0	24.0	24.0	19.3	24.0	24.0	24.0	19.4	24.0	24.0	24.0	19.5	24.0	24.0	24.0	19.6	24.0	24.0	24.0	19.7	24.0	24.0	24.0	19.8	24.0	24.0	24.0	19.9	24.0	24.0	24.0	20.0	24.0	24.0	24.0	20.1	24.0	24.0	24.0	20.2	24.0	24.0	24.0	20.3	24.0	24.0	24.0	20.4	24.0	24.0	24.0	20.5	24.0	24.0	24.0	20.6	24.0	24.0	24.0	20.7	24.0	24.0	24.0	20.8	24.0	24.0	24.0	20.9	24.0	24.0	24.0	21.0	24.0	24.0	24.0	21.1	24.0	24.0	24.0	21.2	24.0	24.0	24.0	21.3	24.0	24.0	24.0	21.4	24.0	24.0	24.0	21.5	24.0	24.0	24.0	21.6	24.0	24.0	24.0	21.7	24.0	24.0	24.0	21.8	24.0	24.0	24.0	21.9	24.0	24.0	24.0	22.0	24.0	24.0	24.0	22.1	24.0	24.0	24.0	22.2	24.0	24.0	24.0	22.3	24.0	24.0	24.0	22.4	24.0	24.0	24.0	22.5	24.0	24.0	24.0	22.6	24.0	24.0	24.0	22.7	24.0	24.0	24.0	22.8	24.0	24.0	24.0	22.9	24.0	24.0	24.0	23.0	24.0	24.0	24.0	23.1	24.0	24.0	24.0	23.2	24.0	24.0	24.0	23.3	24.0	24.0	24.0	23.4	24.0	24.0	24.0	23.5	24.0	24.0	24.0	23.6	24.0	24.0	24.0	23.7	24.0	24.0	24.0	23.8	24.0	24.0	24.0	23.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.1	24.0	24.0	24.0	24.2	24.0	24.0	24.0	24.3	24.0	24.0	24.0	24.4	24.0	24.0	24.0	24.5	24.0	24.0	24.0	24.6	24.0	24.0	24.0	24.7	24.0	24.0	24.0	24.8	24.0	24.0	24.0	24.9	24.0	24.0	24.0	25.0	24.0	24.0	24.0	25.1	24.0	24.0	24.0	25.2	24.0	24.0	24.0	25.3	24.0	24.0	24.0	25.4	24.0	24.0	24.0	25.5	24.0	24.0	24.0	25.6	24.0	24.0	24.0	25.7	24.0	24.0	24.0	25.8	24.0	24.0	24.0	25.9	24.0	24.0	24.0	26.0	24.0	24.0	24.0	26.1	24.0	24.0	24.0	26.2	24.0	24.0	24.0	26.3	24.0	24.0	24.0	26.4	24.0	24.0	24.0	26.5	24.0	24.0	24.0	26.6	24.0	24.0	24.0	26.7	24.0	24.0	24.0	26.8	24.0	24.0	24.0	26.9	24.0	24.0	2
Load Current [A]	Output Voltage 170V [V]	Output Voltage 200V [V]	Output Voltage 264V [V]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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**COSEL**

Model	VAF1024	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	—		



Input Voltage 200 V

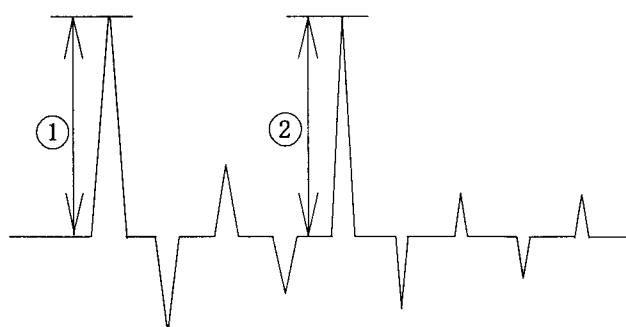
Frequency 60 Hz

Load 100 %

Inrush Current

① 32.91 [A]

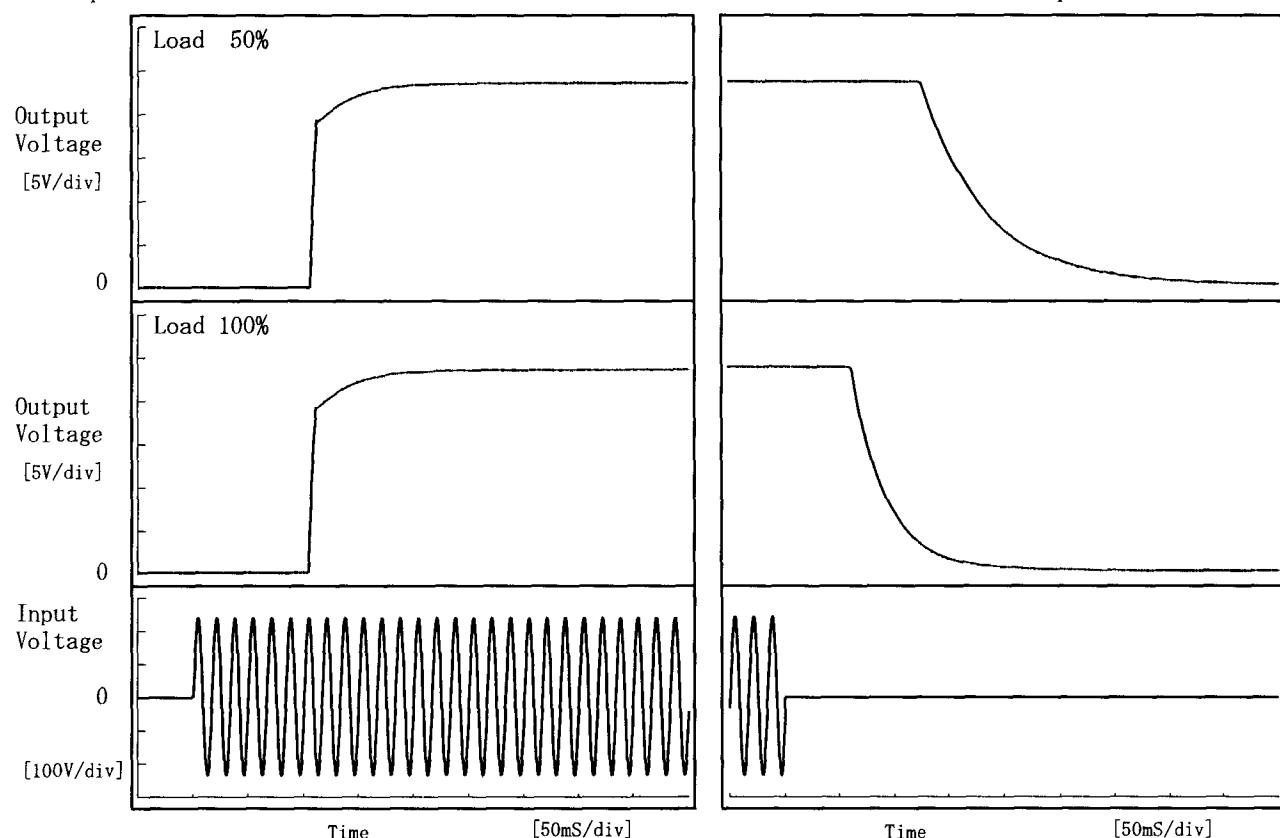
② 0.98 [A]



**COSEL**

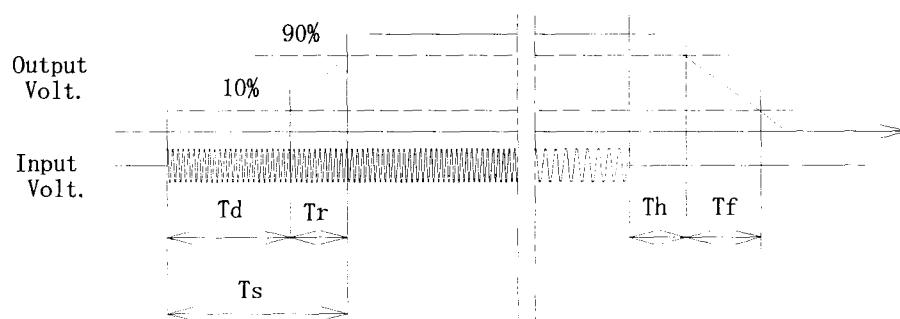
Model	VAF1024	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24.0V 0.45A		

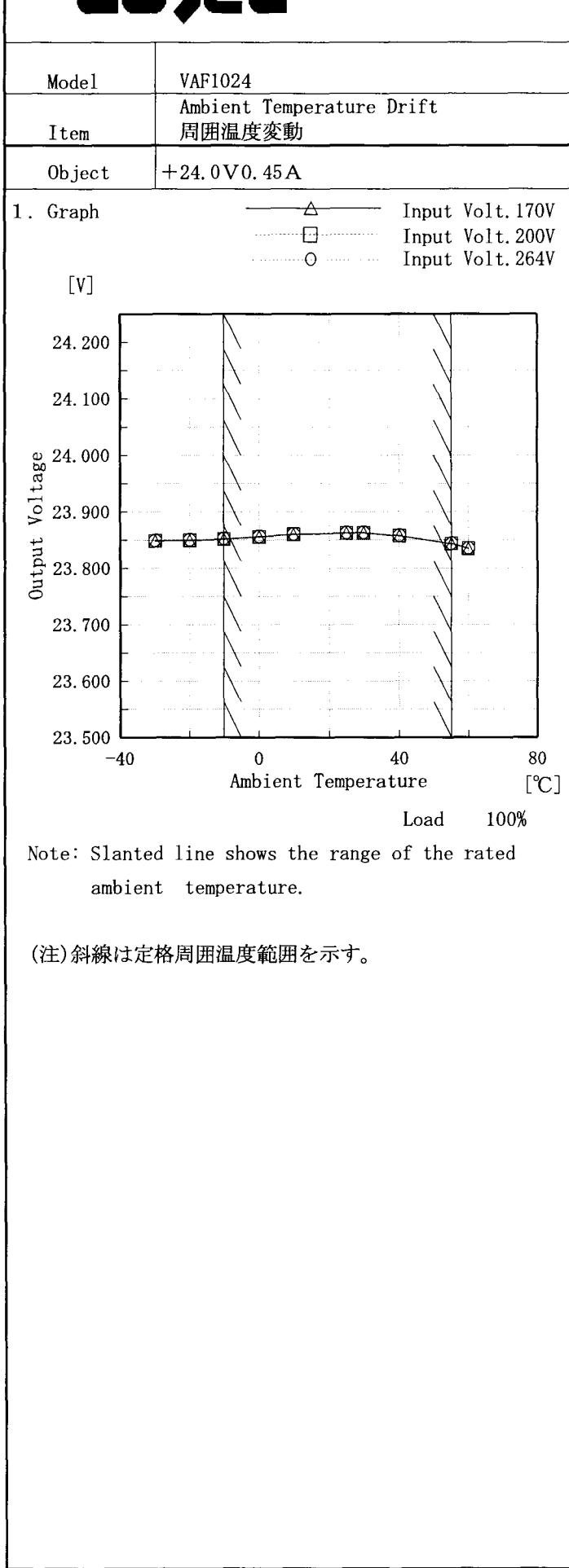
## 1. Graph



## 2. Values

Load	Time	T d	T r	T s	T h	T f	[mS]
50 %		105.8	38.5	144.3	130.3	133.5	
100 %		104.5	38.0	142.5	64.5	70.3	



**COSEL**


Testing Circuitry Figure A

## 2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-30	23.848	23.849	23.850
-20	23.849	23.850	23.851
-10	23.851	23.852	23.853
0	23.855	23.856	23.857
10	23.860	23.860	23.861
25	23.862	23.862	23.863
30	23.862	23.863	23.864
40	23.857	23.857	23.858
55	23.843	23.844	23.844
60	23.834	23.835	23.836
—	—	—	—

**COSSEL**

Model	VAF1024																																								
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	Testing Circuitry Figure A																																							
Object	+24.0V 0.45A																																								
1. Graph	<p style="text-align: center;">□ Load 50%      △ Load 100%</p>	2. Values																																							
		<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Input Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>-30</td><td>37</td><td>48</td></tr> <tr><td>-20</td><td>37</td><td>48</td></tr> <tr><td>-10</td><td>37</td><td>49</td></tr> <tr><td>0</td><td>36</td><td>50</td></tr> <tr><td>10</td><td>37</td><td>52</td></tr> <tr><td>25</td><td>38</td><td>52</td></tr> <tr><td>30</td><td>38</td><td>53</td></tr> <tr><td>40</td><td>39</td><td>55</td></tr> <tr><td>55</td><td>39</td><td>56</td></tr> <tr><td>60</td><td>39</td><td>56</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-30	37	48	-20	37	48	-10	37	49	0	36	50	10	37	52	25	38	52	30	38	53	40	39	55	55	39	56	60	39	56	—	—	—	
Ambient Temperature [°C]	Input Voltage [V]																																								
	Load 50%	Load 100%																																							
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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。

**COSEL**

Model	VAF1024	Temperature 25°C Testing Circuitry Figure A																						
Item	Time Lapse Drift 経時ドリフト																							
Object	+24.0V 0.45A																							
1. Graph	[V]	2. Values																						
	<p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 200V Load 100%</p>	<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>23.856</td></tr> <tr><td>0.5</td><td>23.851</td></tr> <tr><td>1.0</td><td>23.851</td></tr> <tr><td>2.0</td><td>23.851</td></tr> <tr><td>3.0</td><td>23.851</td></tr> <tr><td>4.0</td><td>23.851</td></tr> <tr><td>5.0</td><td>23.851</td></tr> <tr><td>6.0</td><td>23.852</td></tr> <tr><td>7.0</td><td>23.852</td></tr> <tr><td>8.0</td><td>23.852</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	23.856	0.5	23.851	1.0	23.851	2.0	23.851	3.0	23.851	4.0	23.851	5.0	23.851	6.0	23.852	7.0	23.852	8.0	23.852
Time since start [H]	Output Voltage [V]																							
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5.0	23.851																							
6.0	23.852																							
7.0	23.852																							
8.0	23.852																							



Model	VAF1024		
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry	Figure A
Object	+24.0V 0.45A		

### 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 : -10~55 °C

Input Voltage : 170~264 V

Load Current : 0~0.45 A

\* Output Voltage Accuracy = ±(Maximum of Output Voltage — Minimum of Output Voltage) / 2

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

### 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 -10~55 °C

入力電圧 170~264 V

負荷電流 0~0.45 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

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

### 2. Values

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	25	264	0.00	23.868		
Minimum Voltage	55	170	0.45	23.844	±13	±0.1

COSEL

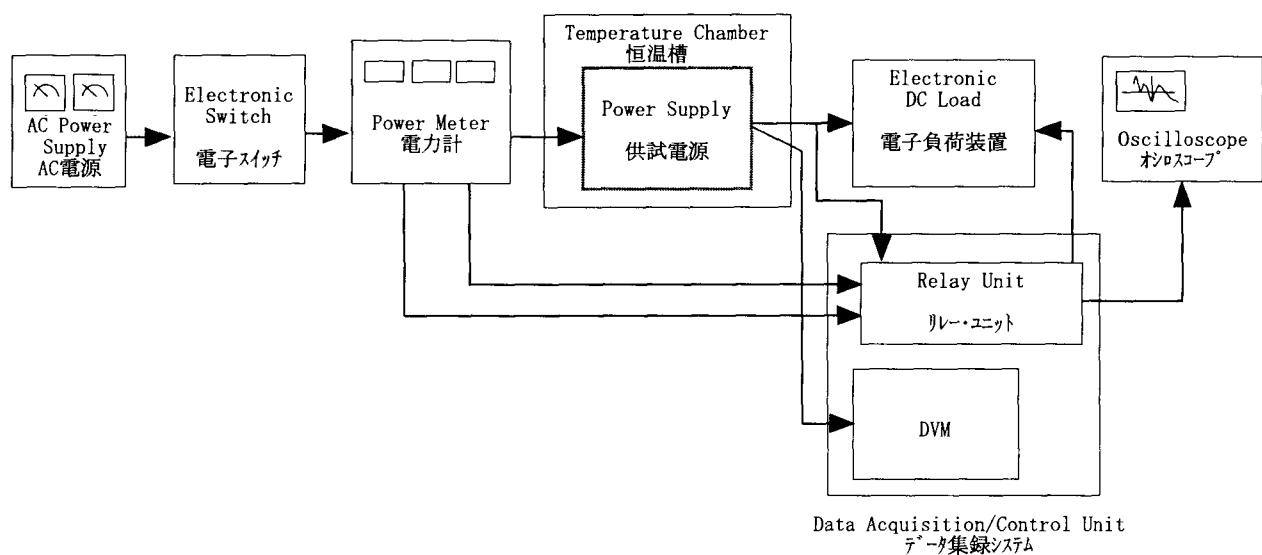


Figure A

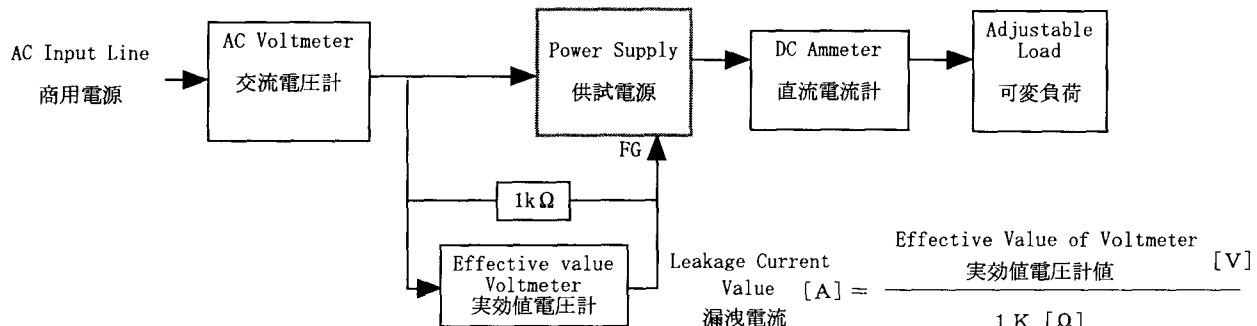


Figure B (DENTORI)

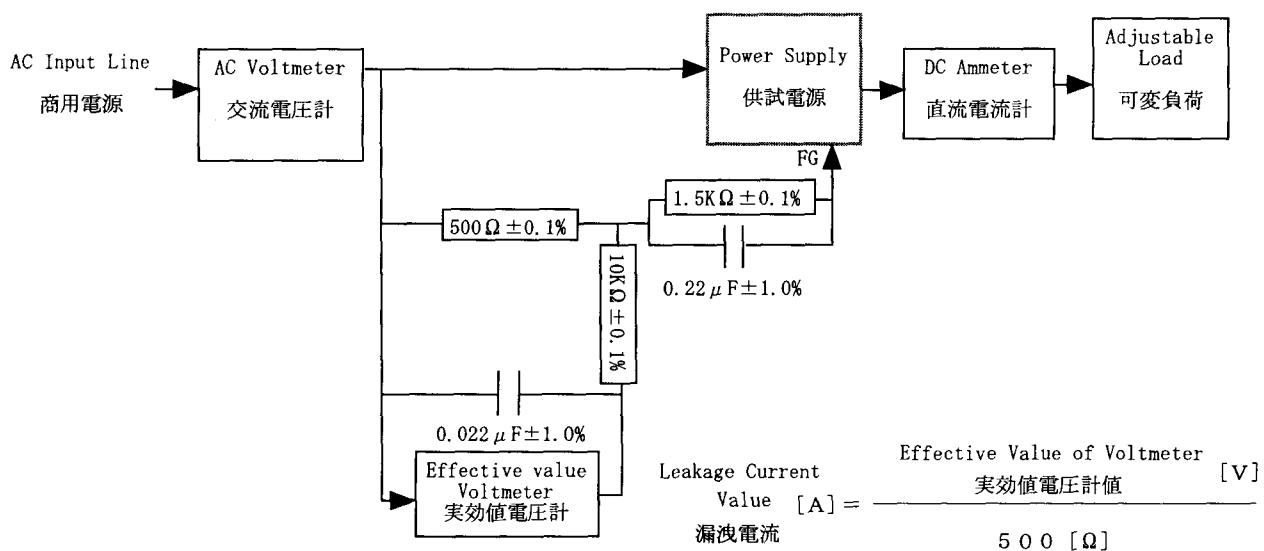


Figure B (IEC60950)

COSEL

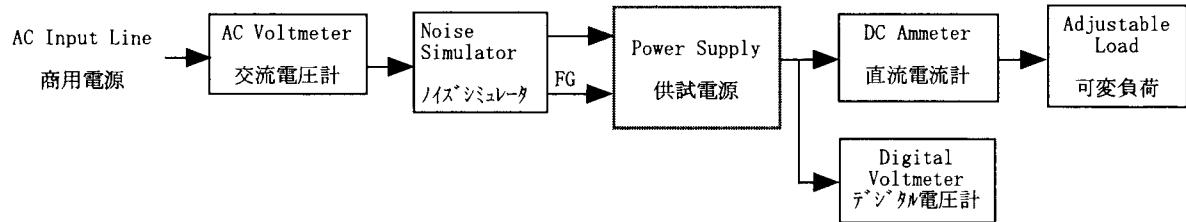


Figure C

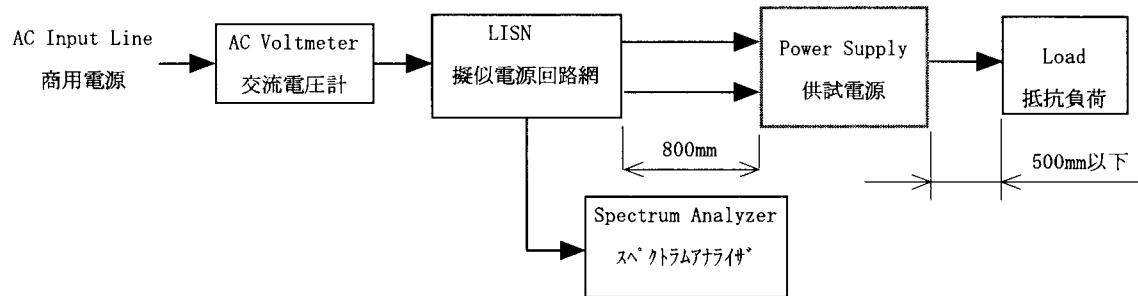


Figure D

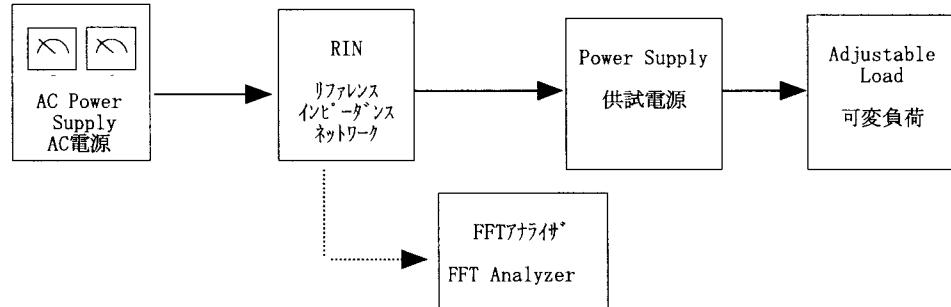


Figure E