



TEST DATA OF PAA600F-3

(200V INPUT)

Regulated DC Power Supply

Date : Mar. 5. 1998

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Design Manager

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Design Engineer

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COSEL CO.,LTD.

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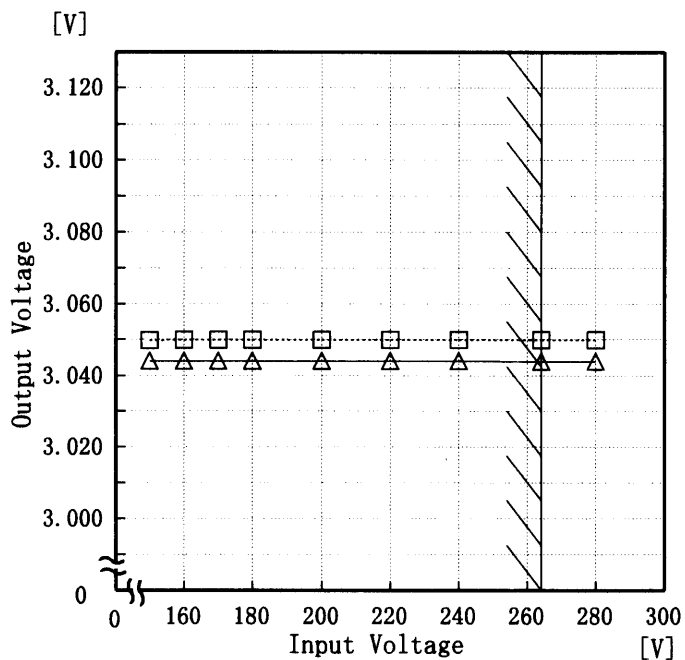
(Final Page 14)



Model	PAA600F-3	Temperature	25°C
Item	Line Regulation 静的入力変動	Testing Circuitry	Figure A
Object	+3V120A		

1. Graph

Load 50%
 Load 100%



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

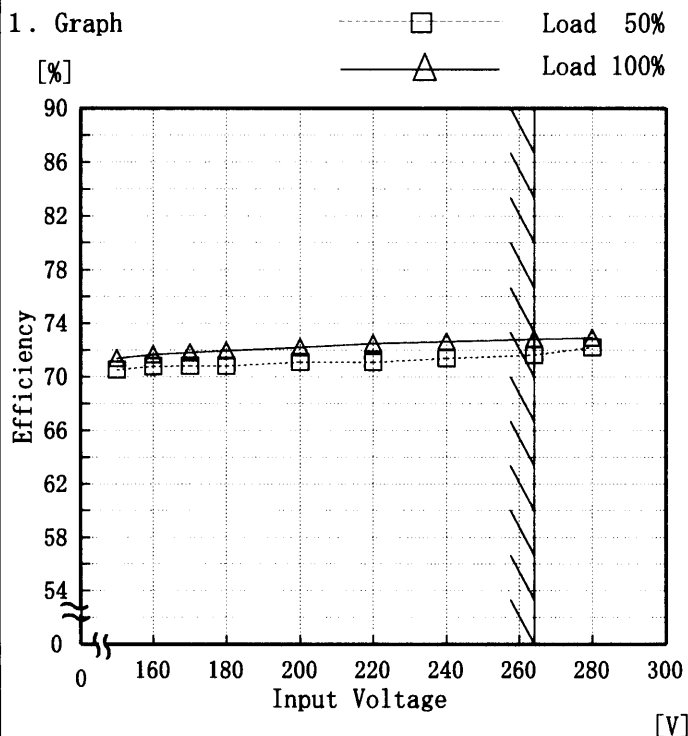
Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
150	3.050	3.044
160	3.050	3.044
170	3.050	3.044
180	3.050	3.044
200	3.050	3.044
220	3.050	3.044
240	3.050	3.044
264	3.050	3.044
280	3.050	3.044



Model	PAA600F-3
Item	Efficiency 効率
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%
	Efficiency [%]	Efficiency [%]
150	70.53	71.41
160	70.81	71.69
170	70.81	71.82
180	70.82	71.96
200	71.10	72.24
220	71.10	72.52
240	71.38	72.66
264	71.66	72.80
280	72.24	72.94



Model		PAA600F-3		Temperature		25°C																																	
Item		Power Factor 力率		Testing Circuitry		Figure A																																	
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Input Voltage [V]	load 50%	load 100%																																					
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Model		PAA600F-3		Temperature		25°C																																	
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264	155	77																																					
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<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、AC入力断から出力電圧が、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。</p>																																							



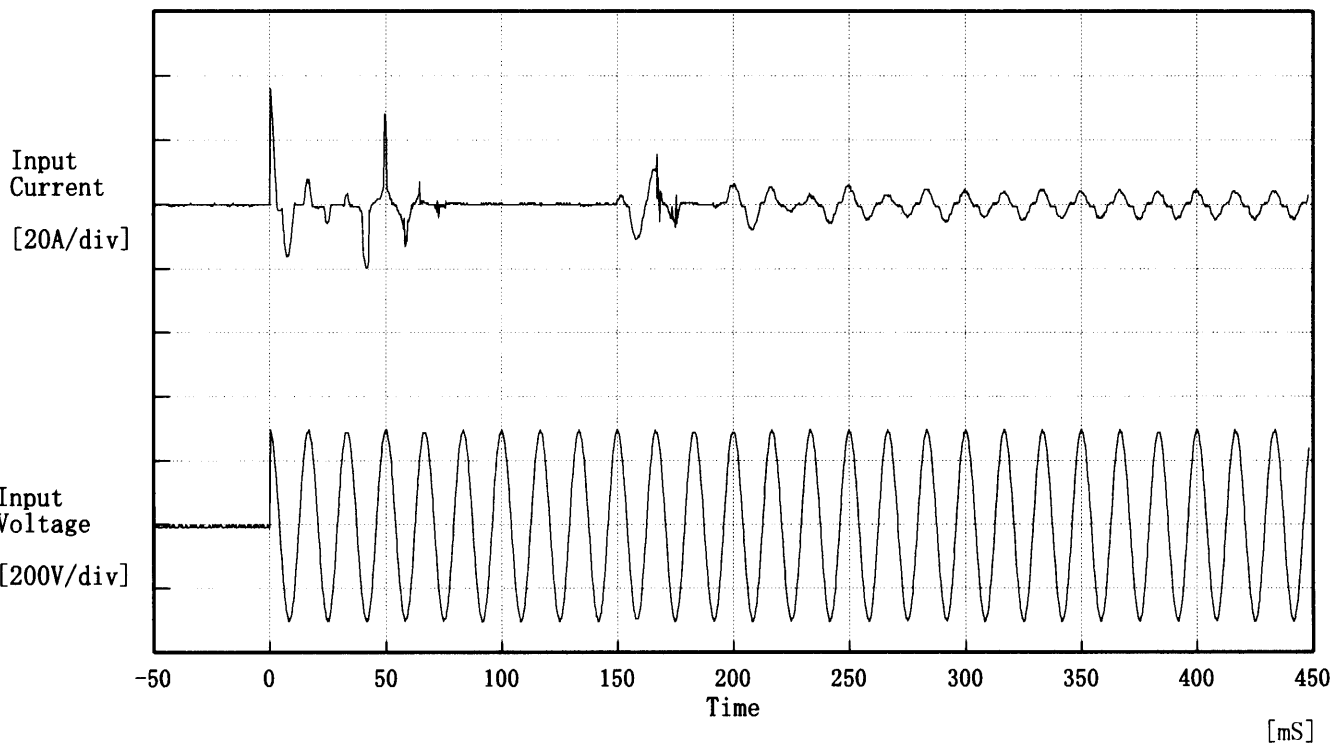
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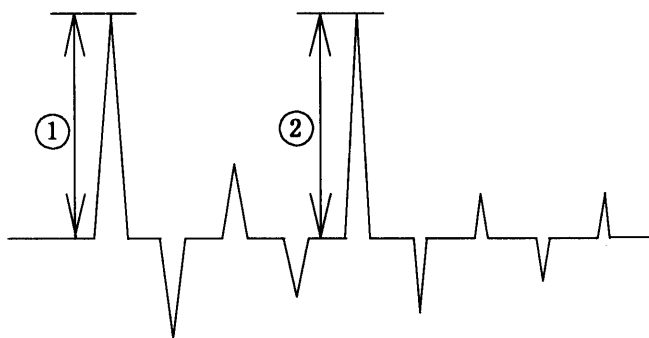
<p>Model PAA600F-3</p> <p>Item Overcurrent Protection 過電流保護</p> <p>Object +3V120A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																											
<p>1. Graph</p> <p>[V]</p> <p>----- Input Volt. 170 V</p> <p>===== Input Volt. 200 V</p> <p>===== Input Volt. 264 V</p> <p>Output Voltage</p> <p>Load Current [A]</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> <tr> <th>Load Current [A]</th> <th>Load Current [A]</th> <th>Load Current [A]</th> </tr> </thead> <tbody> <tr> <td>3.00</td> <td>167.30</td> <td>168.16</td> <td>167.99</td> </tr> <tr> <td>2.85</td> <td>168.38</td> <td>168.84</td> <td>169.08</td> </tr> <tr> <td>2.70</td> <td>169.41</td> <td>169.83</td> <td>170.11</td> </tr> <tr> <td>2.40</td> <td>176.65</td> <td>176.76</td> <td>177.22</td> </tr> <tr> <td>2.10</td> <td>179.34</td> <td>179.55</td> <td>179.82</td> </tr> </tbody> </table>	Output Voltage [V]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	Load Current [A]	Load Current [A]	Load Current [A]	3.00	167.30	168.16	167.99	2.85	168.38	168.84	169.08	2.70	169.41	169.83	170.11	2.40	176.65	176.76	177.22	2.10	179.34	179.55	179.82
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<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> <p>2.1V以下は間欠モードにはいる。</p>																													



Model	PAA600F-3	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 36.00 [A]
 ② 25.20 [A]

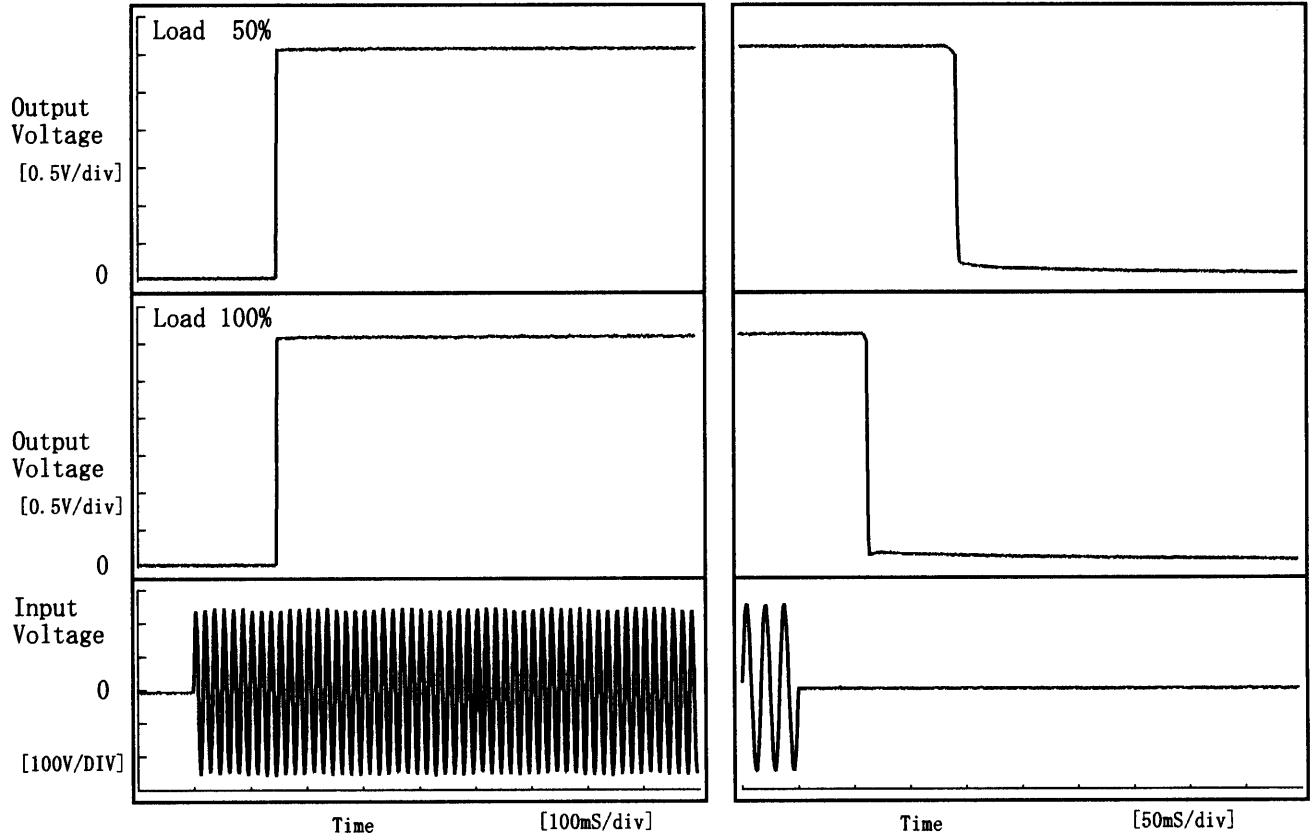




Model	PAA600F-3	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+3V120A		

1. Graph

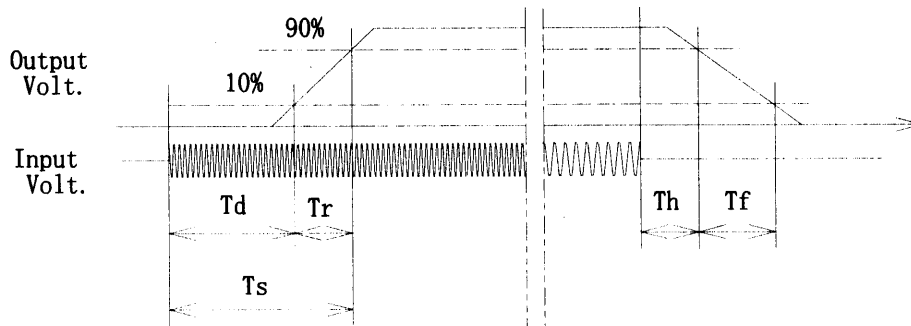
Input Volt. 170 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	145.5	1.0	146.5	142.5	3.0
100 %	147.0	0.5	147.5	63.8	1.5



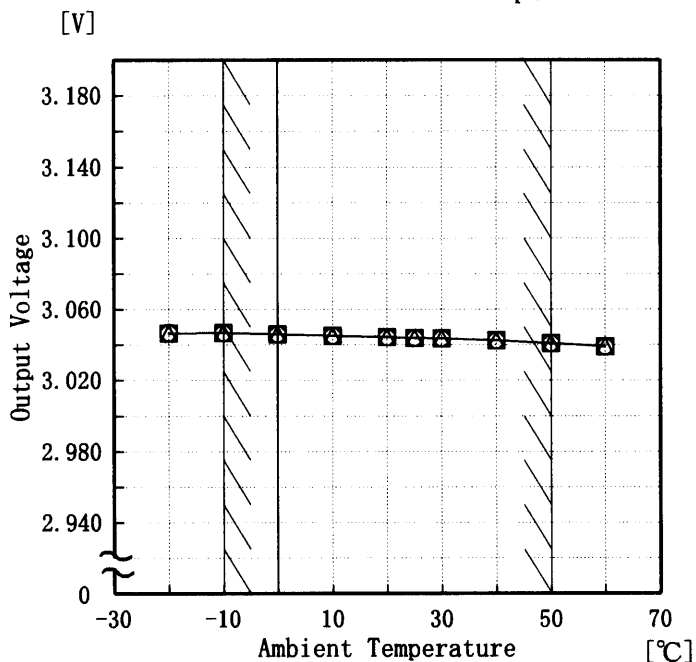


Model	PAA600F-3
Item	Ambient Temperature Drift 周囲温度変動
Object	+3V120A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170V
 - - -□- - - Input Volt. 200V
 - - -○- - - Input Volt. 264V



Load 100%

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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	3.047	3.047	3.047
-10	3.047	3.047	3.047
0	3.046	3.046	3.046
10	3.045	3.045	3.045
20	3.044	3.044	3.044
25	3.044	3.044	3.044
30	3.044	3.044	3.044
40	3.042	3.042	3.042
50	3.041	3.041	3.041
60	3.039	3.039	3.039
-	-	-	-



Model		PAA600F-3	Testing Circuitry Figure A																																				
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																					
Object		+3V120A																																					
1. Graph		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>□ ----- Load 50%</p> <p>△ ----- Load 100%</p> </div> </div>	2. Values																																				
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Model		PAA600F-3		Temperature 25 °C Testing Circuitry Figure A																						
Item		Time Lapse Drift 経時ドリフト																								
Object		+3V120A																								
1. Graph			2.Values																							
<p>[V]</p> <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>3.051</td></tr> <tr><td>0.5</td><td>3.050</td></tr> <tr><td>1.0</td><td>3.050</td></tr> <tr><td>2.0</td><td>3.050</td></tr> <tr><td>3.0</td><td>3.050</td></tr> <tr><td>4.0</td><td>3.050</td></tr> <tr><td>5.0</td><td>3.050</td></tr> <tr><td>6.0</td><td>3.050</td></tr> <tr><td>7.0</td><td>3.050</td></tr> <tr><td>8.0</td><td>3.050</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	3.051	0.5	3.050	1.0	3.050	2.0	3.050	3.0	3.050	4.0	3.050	5.0	3.050	6.0	3.050	7.0	3.050	8.0	3.050
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7.0	3.050																									
8.0	3.050																									



Model		PAA600F-3	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+3V120A	

Output Voltage Accuracy

This is defined as the maximum value of the output voltage regulation load, temperature and input voltage vary at random in the range as specified below.

Temperature : -10~50 °C

Input Voltage : 170~264 V

Load Current : 0~120 A

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

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

定電圧精度

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 170~264 V

負過電流 0~120 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(Ration) [%]
Maximum Voltage	-10	170	0	3.058	±8	±0.280
Minimum Voltage	50	264	120	3.041		

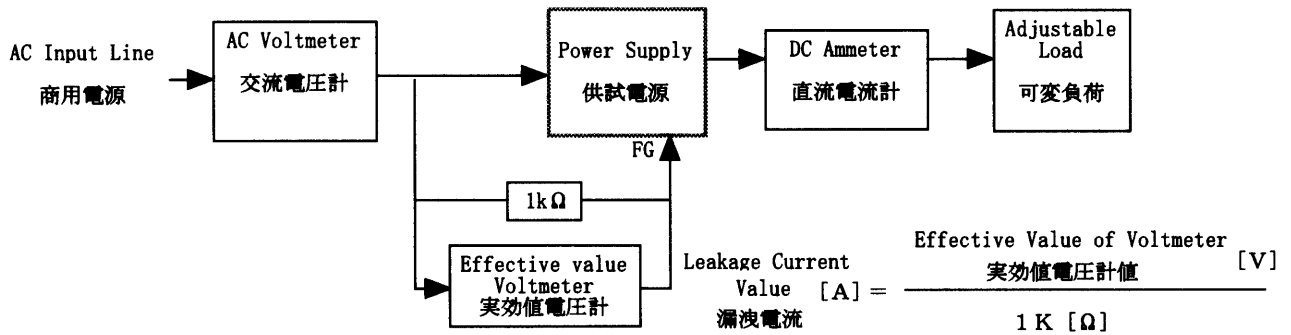
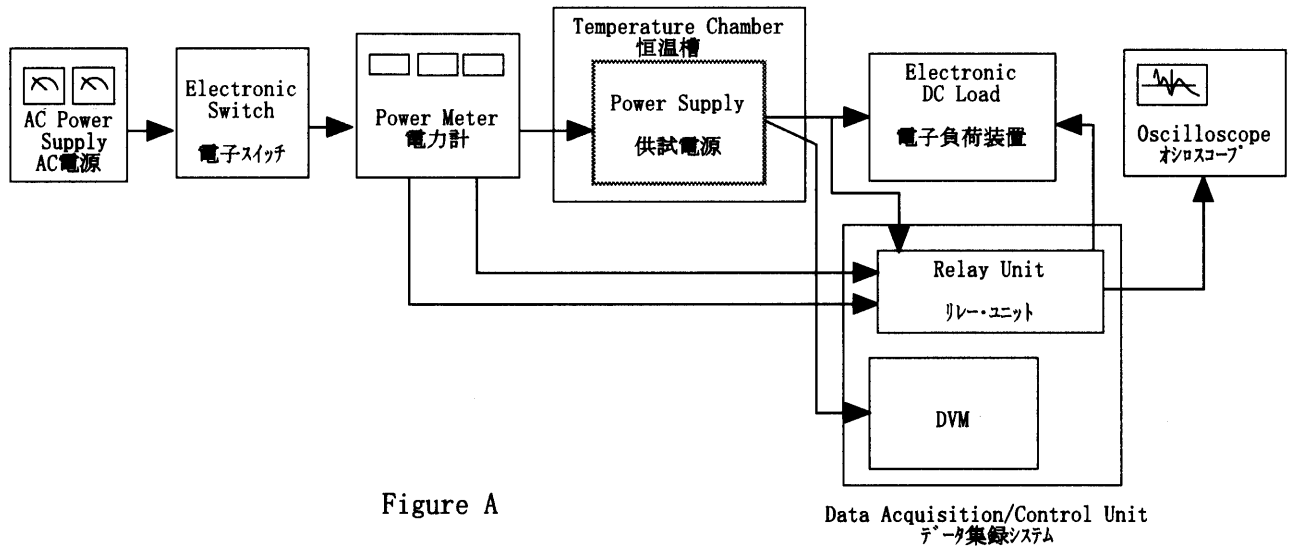


Figure B (DENTORI)

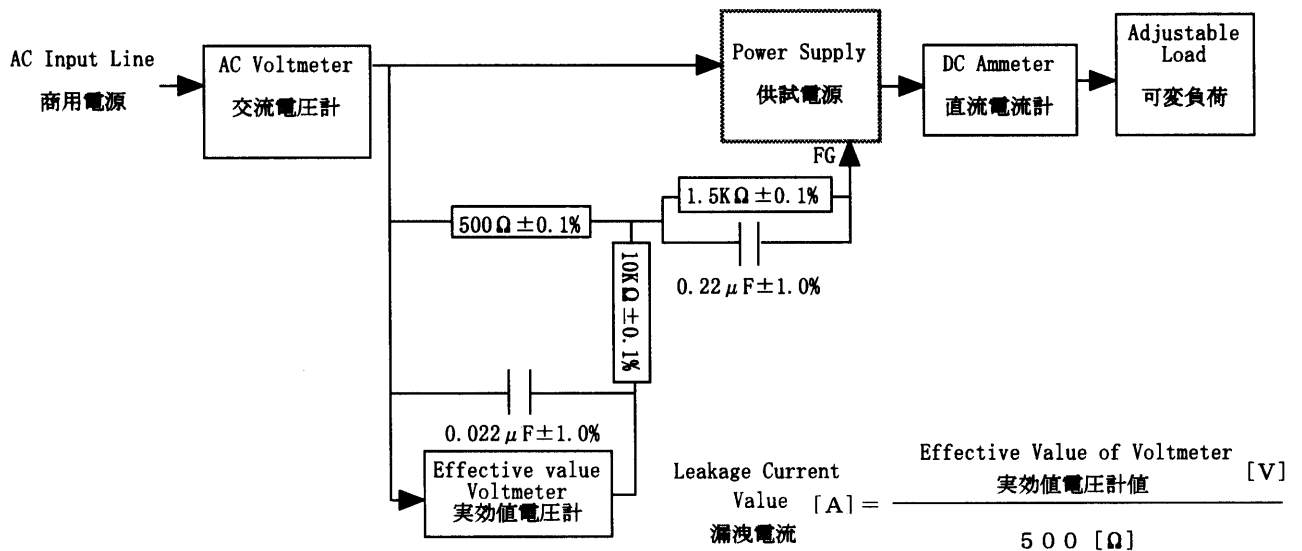


Figure B (UL, CSA, VDE)

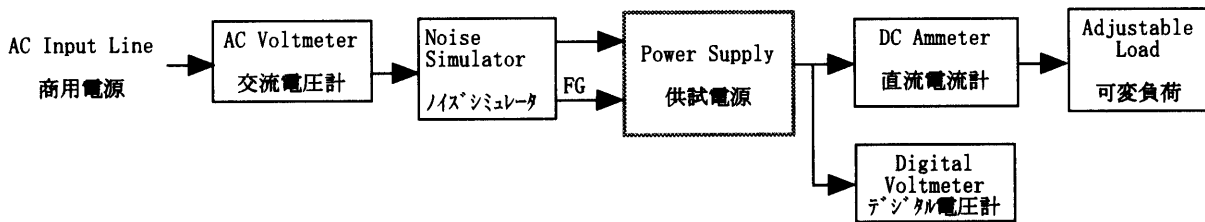


Figure C

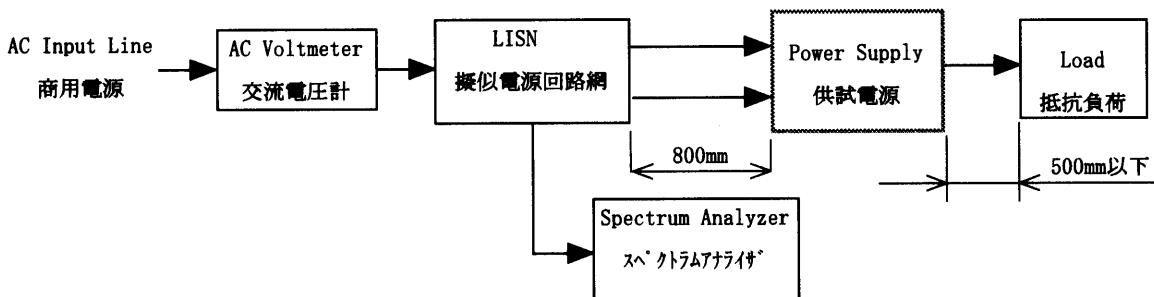


Figure D

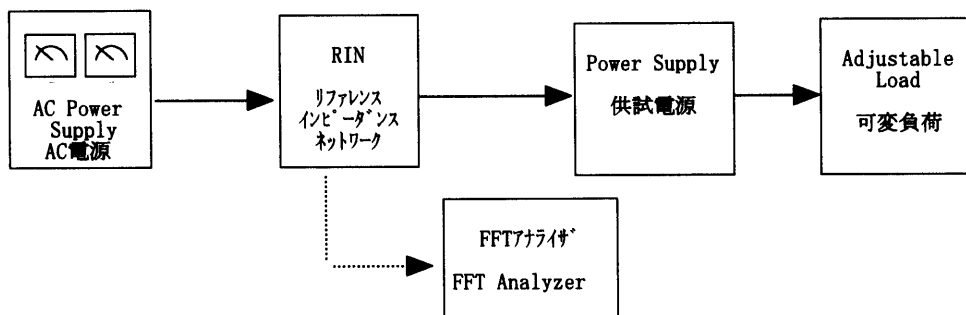


Figure E