



TEST DATA OF ADA600F

ADA600F-24
(200V INPUT)Regulated DC power supply
Jan. 23, 2003Approved by : Kuniaki Nagahara
Kuniaki Nagahara Design ManagerPrepared by : Koji Todo
Koji Todo Design Engineer

INPUT : AC 170~264V

OUTPUT : V1: 24V 25A

コーセル株式会社
COSEL CO.,LTD.

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<p>Model ADA600F (ADA600F-24)</p>		<p>Temperature 25°C Testing Circuitry Figure A</p>																																
<p>Item Line Regulation 静的入力変動</p>																																		
<p>Object V1:+24V25A</p>																																		
<p>1. Graph</p> <div style="text-align: right;"> <p>---□--- Load 50%</p> <p>—△— Load 100%</p> </div> <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>150</td><td>23.987</td><td>23.982</td></tr> <tr><td>160</td><td>23.988</td><td>23.982</td></tr> <tr><td>170</td><td>23.990</td><td>23.982</td></tr> <tr><td>180</td><td>23.991</td><td>23.981</td></tr> <tr><td>200</td><td>23.992</td><td>23.981</td></tr> <tr><td>220</td><td>23.993</td><td>23.980</td></tr> <tr><td>240</td><td>23.994</td><td>23.978</td></tr> <tr><td>264</td><td>23.994</td><td>23.979</td></tr> <tr><td>280</td><td>23.995</td><td>23.977</td></tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	150	23.987	23.982	160	23.988	23.982	170	23.990	23.982	180	23.991	23.981	200	23.992	23.981	220	23.993	23.980	240	23.994	23.978	264	23.994	23.979	280	23.995	23.977
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Model		ADA600F (ADA600F-24)		Temperature		25°C																																																				
Item		Instantaneous Interruption Compensation (by Load Power) 瞬時停電保障 (負荷電力特性)		Testing Circuitry		Figure A																																																				
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<p>Model ADA600F (ADA600F-24)</p> <p>Item Ripple-Noise リップルノイズ</p> <p>Object V1:+24V25A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
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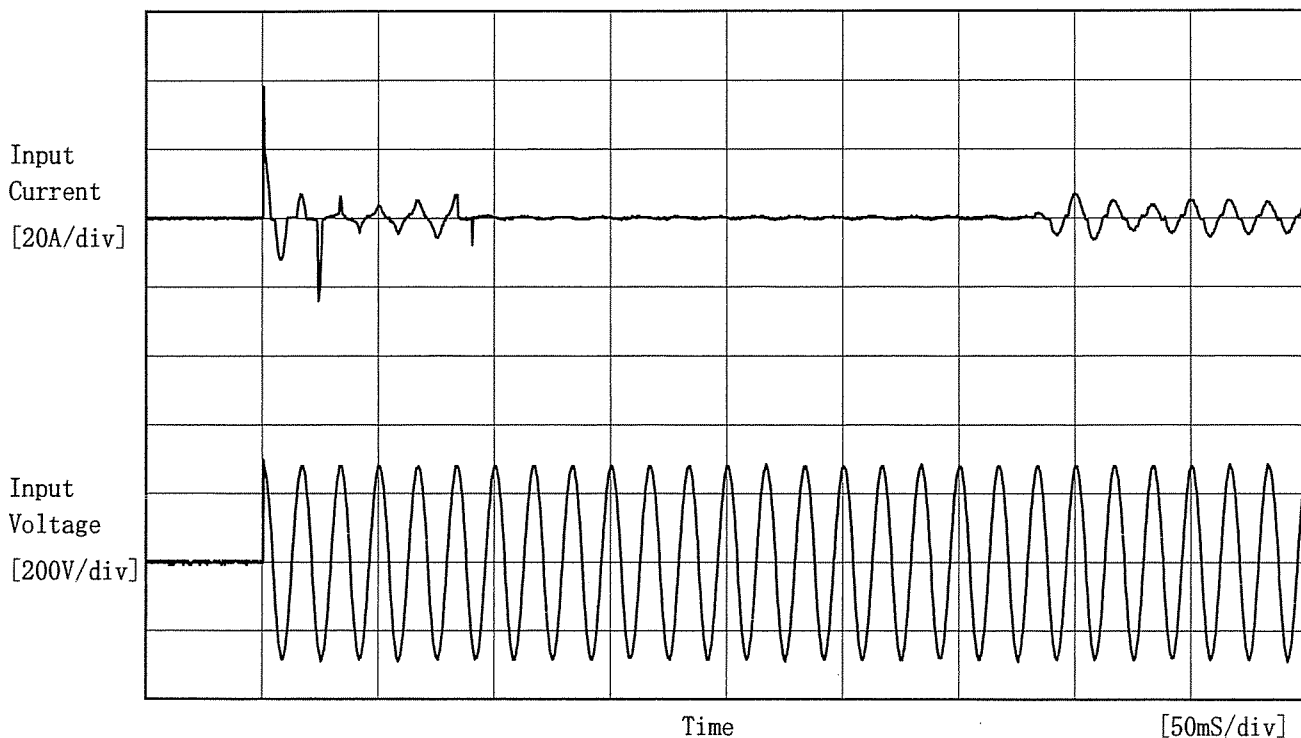


<p>Model ADA600F (ADA600F-24)</p> <p>Item Overcurrent Protection 過電流保護</p> <p>Object V1:+24V25A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																																							
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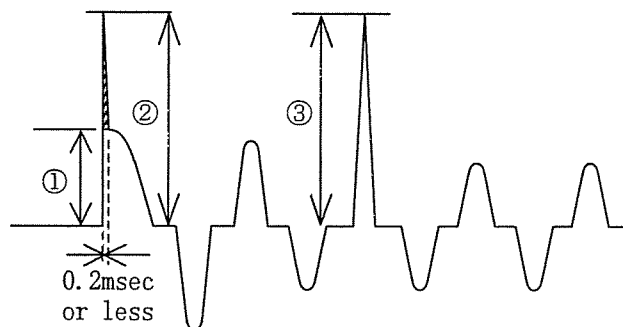
Model	ADA600F (ADA600F-24)	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 200 V
 Frequency 60 Hz
 Load 100 %

Inrush Current

- ① 20.6 [A]
- ② 38.1 [A] (0.2msec or less)*1
- ③ 21.6 [A]



*1 The specification of the inrush current (primary surge) means that the surge current to a built-in noise filter (0.2msec or less : waveform ②) is excluded.

本製品の突入電流(1次サージ)の仕様は、内蔵ノイズフィルタ部へのサージ電流(0.2msec以下:波形②)を除きます。



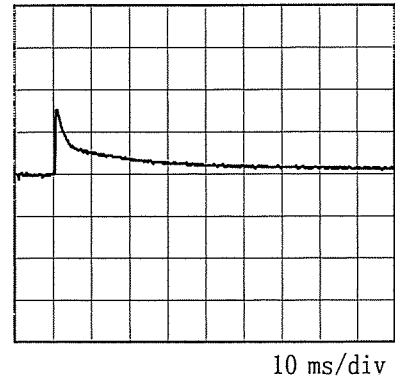
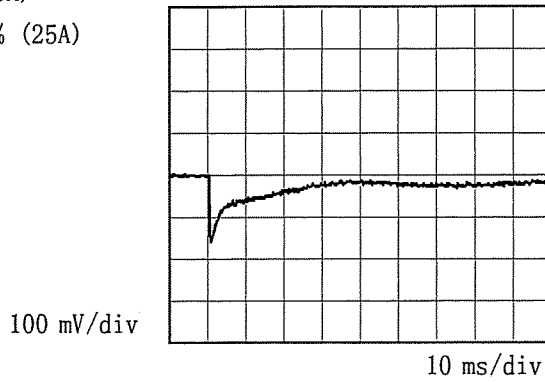
Model	ADA600F (ADA600F-24)	Temperature	25°C
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	V1:+24V25A		

Input Volt. AC200 V
Cycle 1000 ms

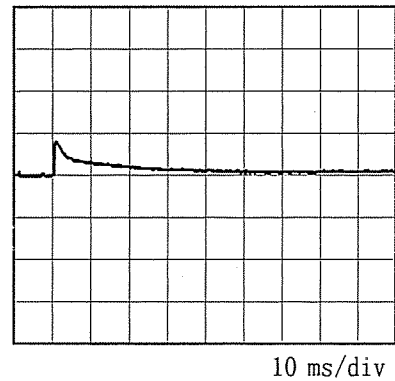
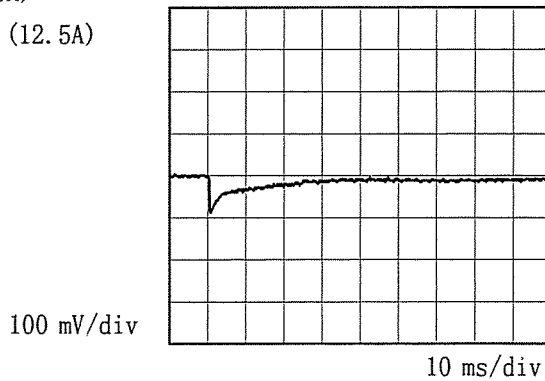
Load Current



Min. Load (0A) ←→
Load 100% (25A)



Min. Load (0A) ←→
Load 50% (12.5A)

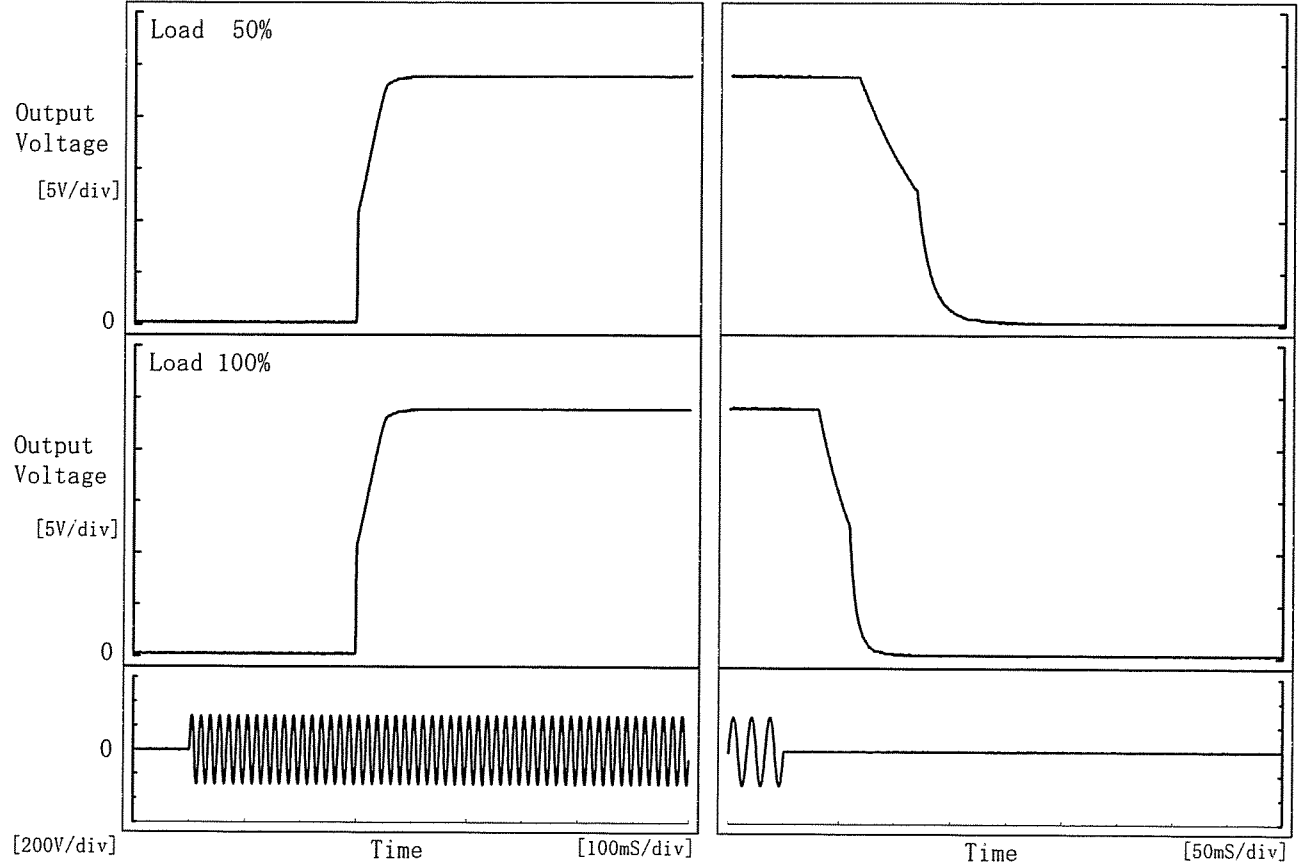




Model	ADA600F (ADA600F-24)	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	V1:+24V25A		

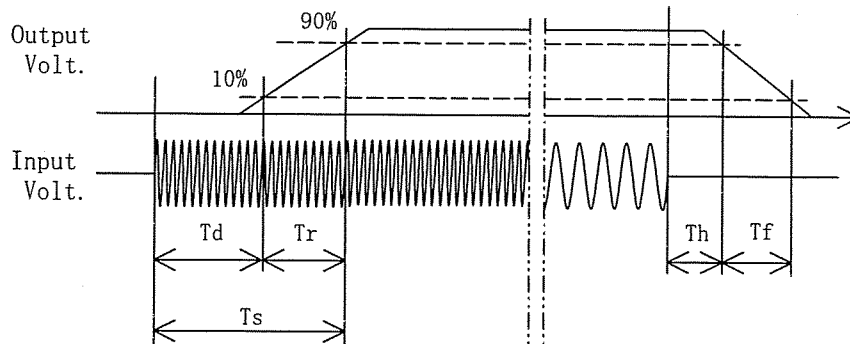
1. Graph

Input Volt. 200 V



2. Values

		[mS]				
Load	Time	T d	T r	T s	T h	T f
50 %		298.0	45.5	343.5	73.3	66.5
100 %		298.0	46.5	344.5	34.5	35.5





Model	ADA600F (ADA600F-24)
Item	Ambient Temperature Drift 周囲温度変動
Object	V1:+24V25A
1. Graph	<p>—△— Input Volt. 170 V ---□--- Input Volt. 200 V -·-○-·- Input Volt. 264 V</p> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>
<p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注) 斜線は定格周囲温度範囲を示す。</p>	

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	24.083	24.084	24.083
-10	24.052	24.051	24.051
0	24.028	24.028	24.027
10	24.012	24.012	24.011
20	23.992	23.992	23.991
25	23.982	23.982	23.981
30	23.968	23.968	23.968
40	23.947	23.946	23.945
50	23.920	23.921	23.920
60	23.896	23.897	23.896
--	—	—	—



COSEL																																									
Model	ADA600F (ADA600F-24)	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	V1:+24V25A																																								
1. Graph		2. Values																																							
<p style="text-align: right;"> ---□--- Load 50% ——△—— Load 100% </p> <p style="text-align: center;">Ambient Temperature [°C]</p>		<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>-20</td><td>67</td><td>67</td></tr> <tr><td>-10</td><td>67</td><td>67</td></tr> <tr><td>0</td><td>67</td><td>67</td></tr> <tr><td>10</td><td>67</td><td>67</td></tr> <tr><td>20</td><td>67</td><td>67</td></tr> <tr><td>25</td><td>67</td><td>67</td></tr> <tr><td>30</td><td>67</td><td>68</td></tr> <tr><td>40</td><td>67</td><td>67</td></tr> <tr><td>50</td><td>67</td><td>67</td></tr> <tr><td>60</td><td>67</td><td>67</td></tr> <tr><td>--</td><td>—</td><td>—</td></tr> </tbody> </table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	67	67	-10	67	67	0	67	67	10	67	67	20	67	67	25	67	67	30	67	68	40	67	67	50	67	67	60	67	67	--	—	—
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COSEL																												
Model	ADA600F (ADA600F-24)																											
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	Testing Circuitry Figure A																										
Object	V1:+24V25A																											
<p>1. Graph</p> <p style="text-align: center;">Ripple Voltage [mV]</p> <p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: center;">Input Volt. 200 V</p> <p style="text-align: center;">Load 100 %</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注) 斜線は定格周囲温度範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Ambient Temperature [°C]</th> <th>Ripple Voltage [mV]</th> </tr> </thead> <tbody> <tr><td>-30</td><td>125</td></tr> <tr><td>-10</td><td>45</td></tr> <tr><td>0</td><td>35</td></tr> <tr><td>25</td><td>30</td></tr> <tr><td>50</td><td>25</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> </tbody> </table>	Ambient Temperature [°C]	Ripple Voltage [mV]	-30	125	-10	45	0	35	25	30	50	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ambient Temperature [°C]	Ripple Voltage [mV]																											
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COSEL																									
Model	ADA600F (ADA600F-24)	Temperature	25°C																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	V1:+24V25A																								
1. Graph		2. Values																							
<p style="text-align: center;">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>24.011</td></tr> <tr><td>0.5</td><td>23.963</td></tr> <tr><td>1.0</td><td>23.964</td></tr> <tr><td>2.0</td><td>23.964</td></tr> <tr><td>3.0</td><td>23.964</td></tr> <tr><td>4.0</td><td>23.964</td></tr> <tr><td>5.0</td><td>23.963</td></tr> <tr><td>6.0</td><td>23.965</td></tr> <tr><td>7.0</td><td>23.964</td></tr> <tr><td>8.0</td><td>23.962</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	24.011	0.5	23.963	1.0	23.964	2.0	23.964	3.0	23.964	4.0	23.964	5.0	23.963	6.0	23.965	7.0	23.964	8.0	23.962
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COSEL		
Model	ADA600F (ADA600F-24)	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	V1:+24V25A	

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 : 170 ~ 264V

Load Current : 0 ~ 25A

* 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 : 170 ~ 264V

負荷電流 : 0 ~ 25A

* 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		Output Voltage Accuracy	
			Current [A]	Voltage [V]	Value [mV]	Ration [%]
Maximum Voltage	-10	264	0	24.080	±79	±0.3
Minimum Voltage	50	170	25	23.922		



Model		ADA600F (ADA600F-24)	Temperature		25°C
Item		Leakage Current 漏洩電流	Testing Circuitry		Figure B
Object					

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DEN-AN	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 240 [V]	Input Volt. 264 [V]
(B) IEC60950	0.31	0.44	0.51

2. Condition

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

交流入力各相について測定し、その大きい方を漏洩電流測定値とする。

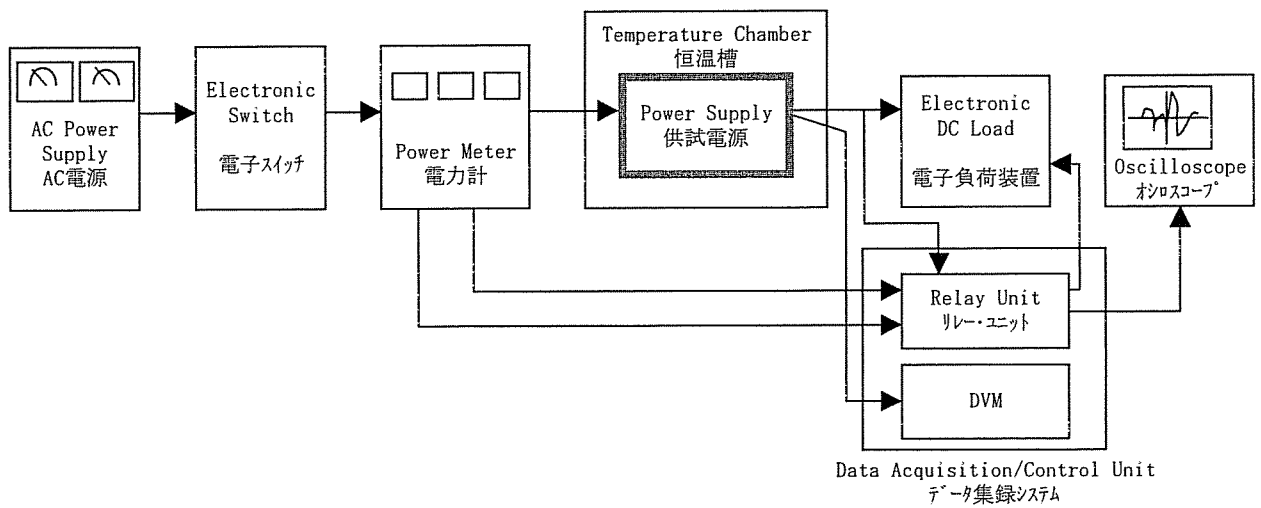


Figure A

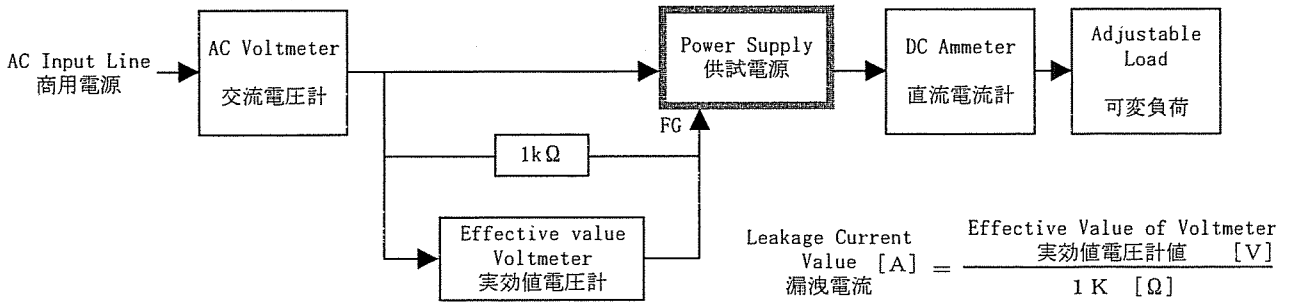


Figure B (DEN-AN)

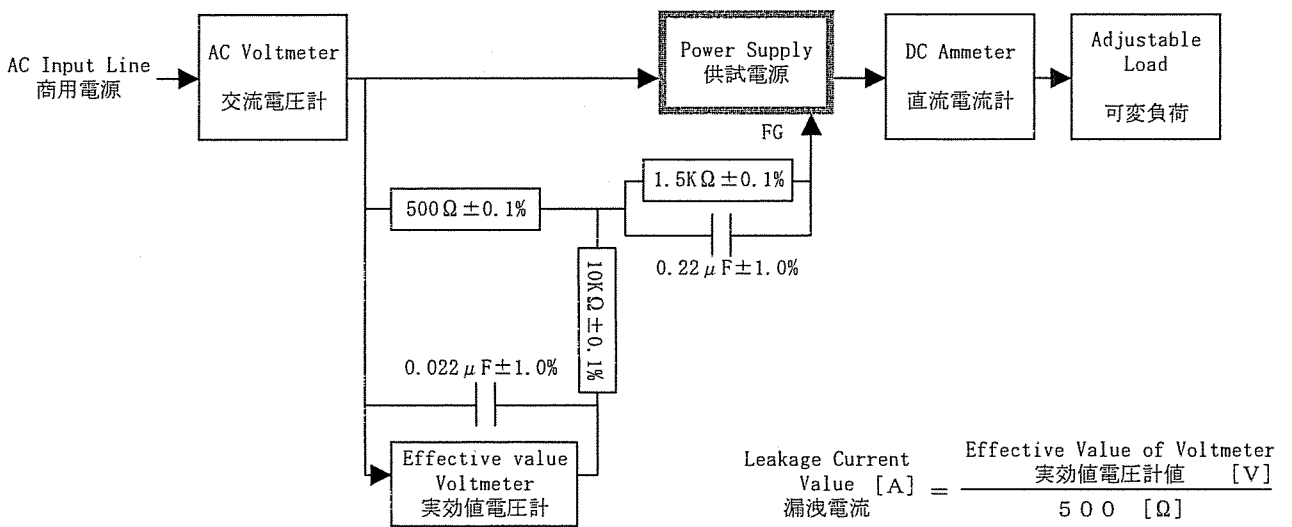


Figure B (IEC60950)