

COSEL

TEST DATA OF LCA100S-36
(100V INPUT)

Regulated DC Power Supply

Mar. 29, 2000

Approved by : R. Yamaguchi

Design Manager

Prepared by : J. Usano

Design Engineer

コーワセル株式会社

COSEL CO., LTD.



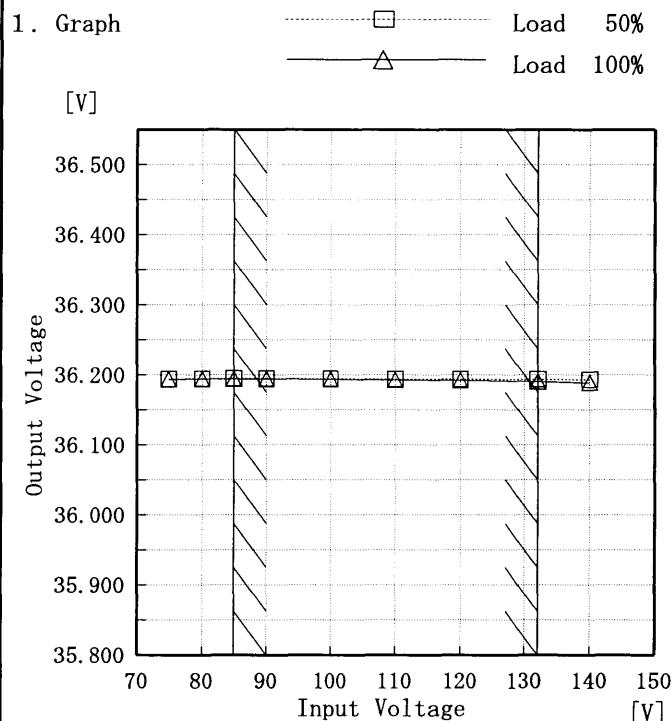
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(Final Page 18)

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Model	LCA100S-36
Item	Line Regulation 静的入力変動
Object	+36.0V3A

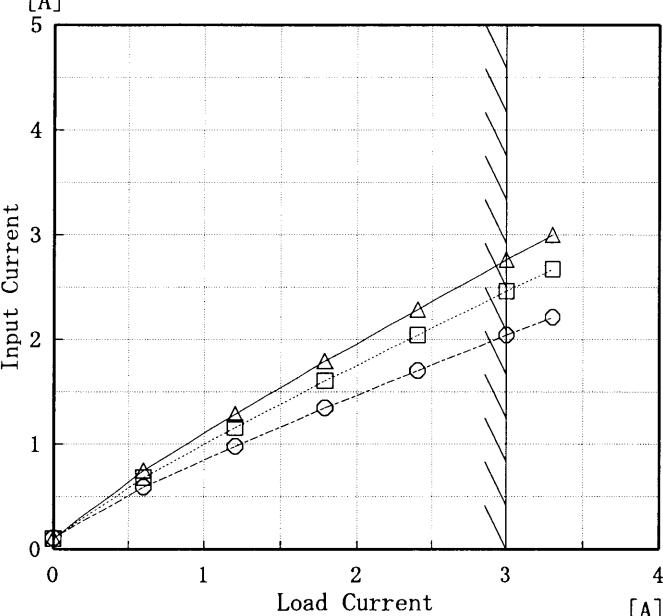


Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

Temperature 25°C
Testing Circuitry Figure A

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Model	LCA100S-36																																																									
Item	Input Current (by Load Current) 入力電流 (負荷特性)	Temperature Testing Circuitry	25°C Figure A																																																							
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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、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>																																		

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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 load current.</p> <p>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。</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>																																																								

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Model	LCA100S-36	Temperature 25°C Testing Circuitry Figure A																																																	
Item	Load Regulation 静的負荷変動																																																		
Object	+36.0V 3A																																																		
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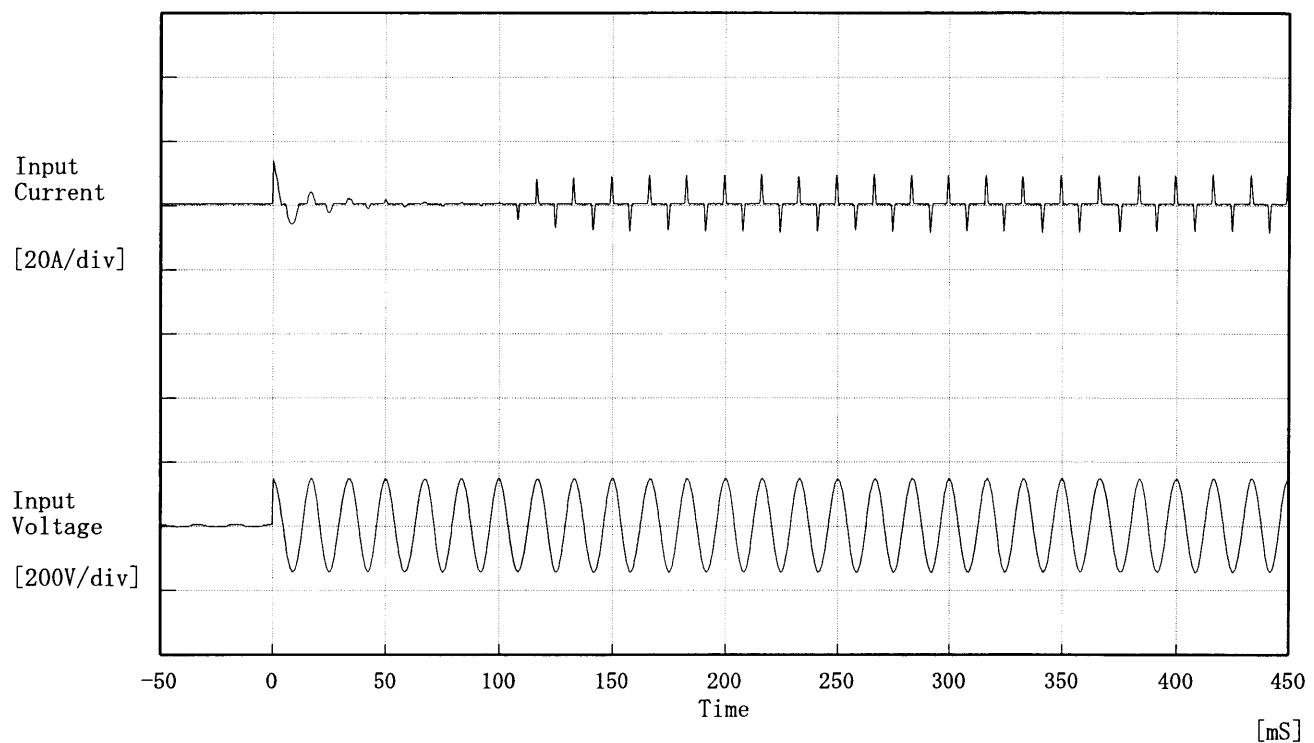
Model	LCA100S-36	Temperature Testing Circuitry 25°C Figure A																																																									
Item	Overcurrent Protection 過電流保護																																																										
Object	+36.0V3A																																																										
1. Graph	<p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Input Volt. 85 V</p> <p>Input Volt. 100 V</p> <p>Input Volt. 132 V</p>																																																										
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COSSEL

Model	LCA100S-36																																																					
Item	Overvoltage Protection 過電圧保護																																																					
Object	+36.0V 3A																																																					
1. Graph																																																						
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—	—	—	—																																																			

COSEL

Model	LCA100S-36	Temperature Testing Circuitry 25°C Figure A
Item	Inrush Current 突入電流	
Object	—	



Input Voltage 100 V

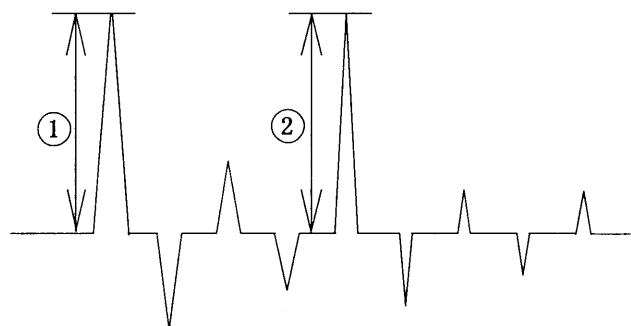
Frequency 60 Hz

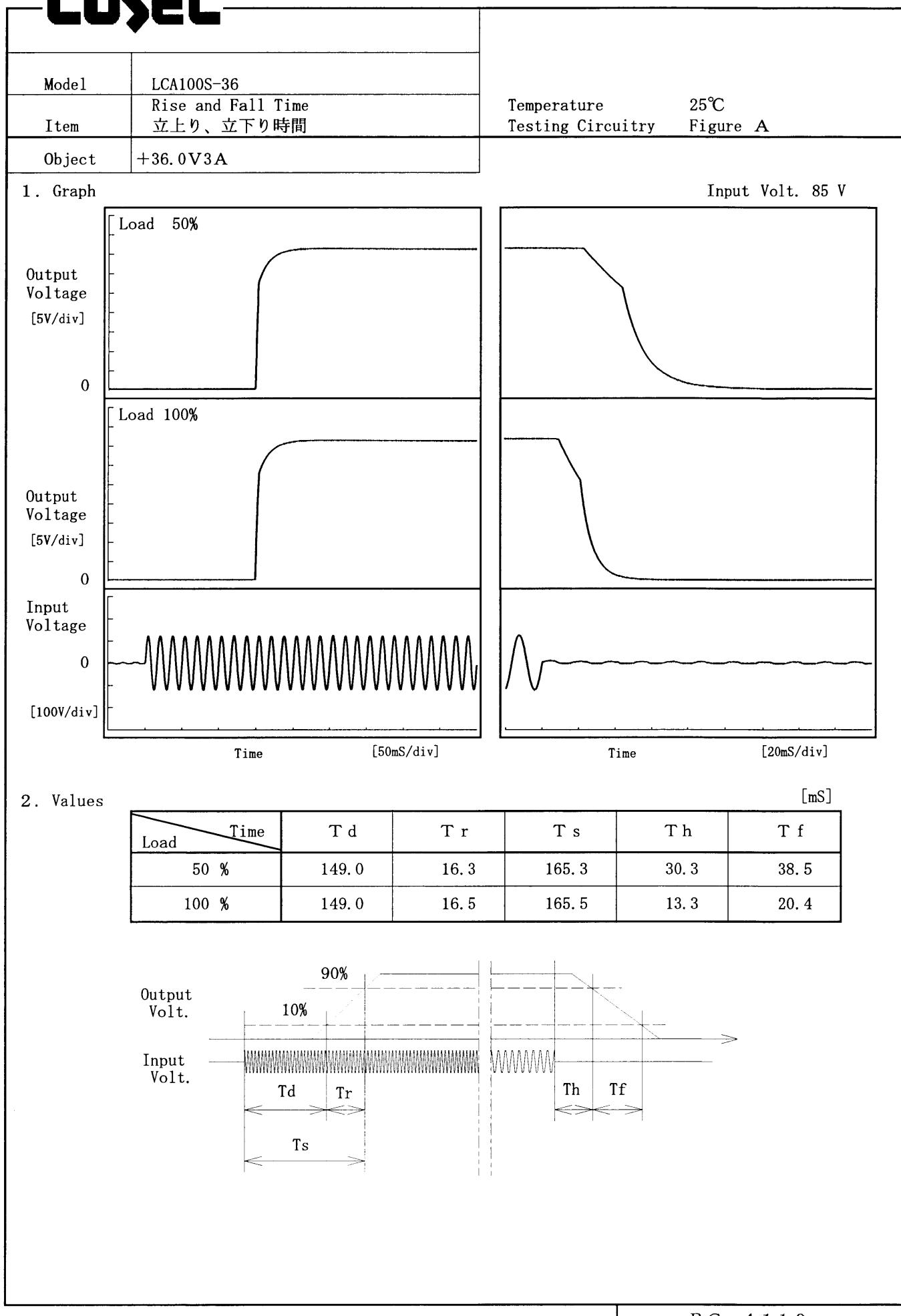
Load 100 %

Inrush Current

① 13.86 [A]

② 9.86 [A]



COSEL

COSEL

Model	LCA100S-36	Testing Circuitry Figure A																																																					
Item	Ambient Temperature Drift 周囲温度変動																																																						
Object	+36.0V 3A																																																						
1. Graph	<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>																																																						
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</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> </thead> <tbody> <tr> <td>-20</td><td>36.306</td><td>36.306</td><td>36.303</td></tr> <tr> <td>-10</td><td>36.286</td><td>36.285</td><td>36.283</td></tr> <tr> <td>0</td><td>36.262</td><td>36.262</td><td>36.259</td></tr> <tr> <td>10</td><td>36.236</td><td>36.235</td><td>36.233</td></tr> <tr> <td>20</td><td>36.210</td><td>36.209</td><td>36.206</td></tr> <tr> <td>25</td><td>36.195</td><td>36.194</td><td>36.191</td></tr> <tr> <td>30</td><td>36.179</td><td>36.179</td><td>36.176</td></tr> <tr> <td>40</td><td>36.147</td><td>36.146</td><td>36.142</td></tr> <tr> <td>50</td><td>36.111</td><td>36.111</td><td>36.104</td></tr> <tr> <td>60</td><td>36.073</td><td>36.072</td><td>36.062</td></tr> <tr> <td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>				Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	36.306	36.306	36.303	-10	36.286	36.285	36.283	0	36.262	36.262	36.259	10	36.236	36.235	36.233	20	36.210	36.209	36.206	25	36.195	36.194	36.191	30	36.179	36.179	36.176	40	36.147	36.146	36.142	50	36.111	36.111	36.104	60	36.073	36.072	36.062	—	—	—	—
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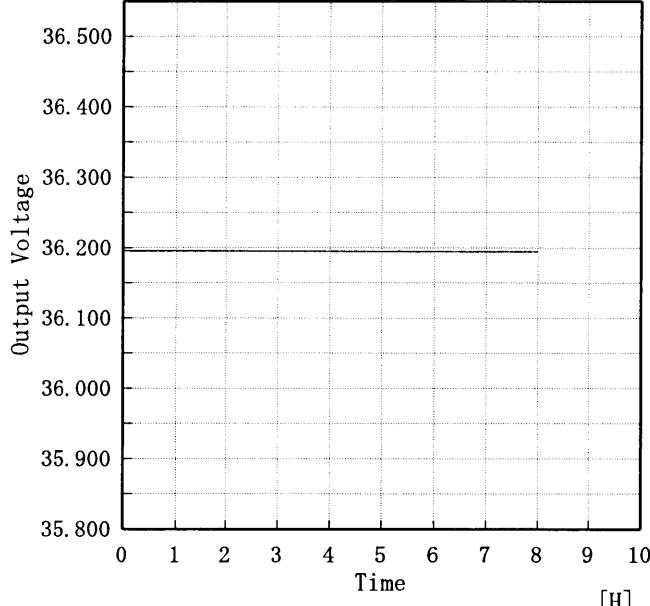
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Model	LCA100S-36			
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧		Testing Circuitry Figure A	
Object	+36.0V 3A			
1. Graph			2. Values	
Ambient Temperature [°C]	Input Voltage [V]			
	Load 50%	Load 100%		
-20	65	71		
-10	65	71		
0	64	70		
10	64	71		
20	64	71		
25	65	71		
30	65	71		
40	65	71		
50	65	71		
60	64	71		
—	—	—		

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	LCA100S-36	Temperature Testing Circuitry Figure A	25°C																						
Item	Time Lapse Drift 経時ドリフト																								
Object	+36.0V3A																								
1. Graph	[V]	2. Values																							
	 <p>Output Voltage [V]</p> <p>Input Volt. 100V</p> <p>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>36.203</td></tr> <tr><td>0.5</td><td>36.196</td></tr> <tr><td>1.0</td><td>36.195</td></tr> <tr><td>2.0</td><td>36.195</td></tr> <tr><td>3.0</td><td>36.195</td></tr> <tr><td>4.0</td><td>36.195</td></tr> <tr><td>5.0</td><td>36.195</td></tr> <tr><td>6.0</td><td>36.195</td></tr> <tr><td>7.0</td><td>36.195</td></tr> <tr><td>8.0</td><td>36.195</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	36.203	0.5	36.196	1.0	36.195	2.0	36.195	3.0	36.195	4.0	36.195	5.0	36.195	6.0	36.195	7.0	36.195	8.0	36.195	
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7.0	36.195																								
8.0	36.195																								



Model	LCA100S-36	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+36.0V 3A	

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 : 0~3 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 -10~50 °C

入力電圧 85~132 V

負荷電流 0~3 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	-10	100	0	36.291	±95	±0.3
Minimum Voltage	50	132	3	36.102		

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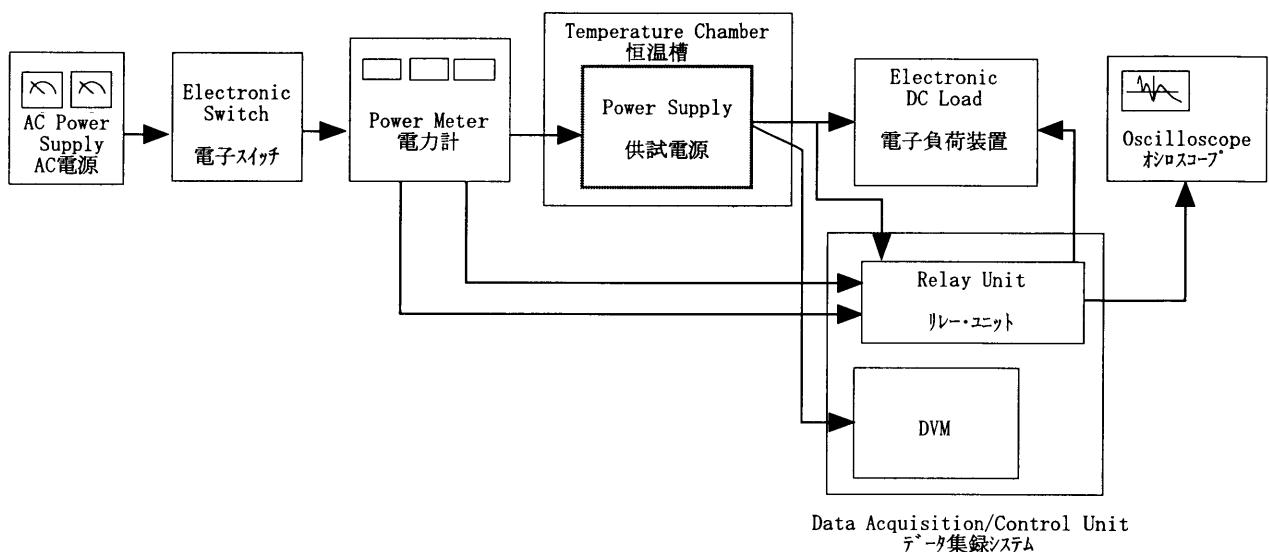


Figure A

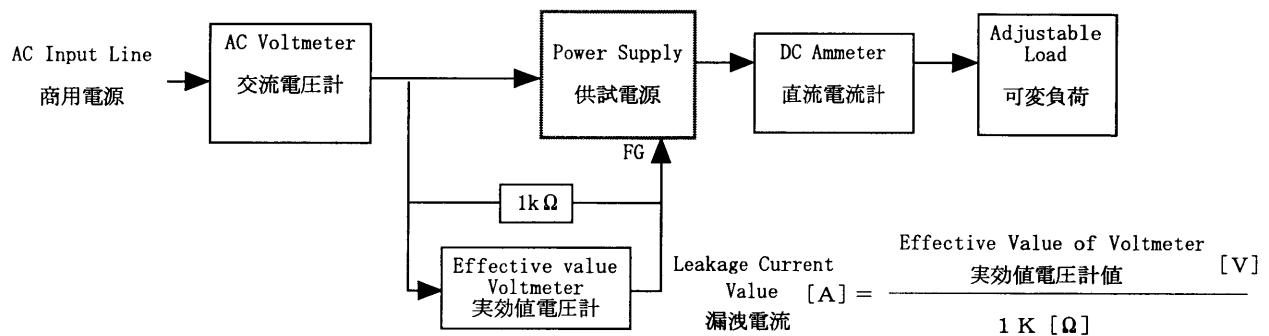


Figure B (DENTORI)

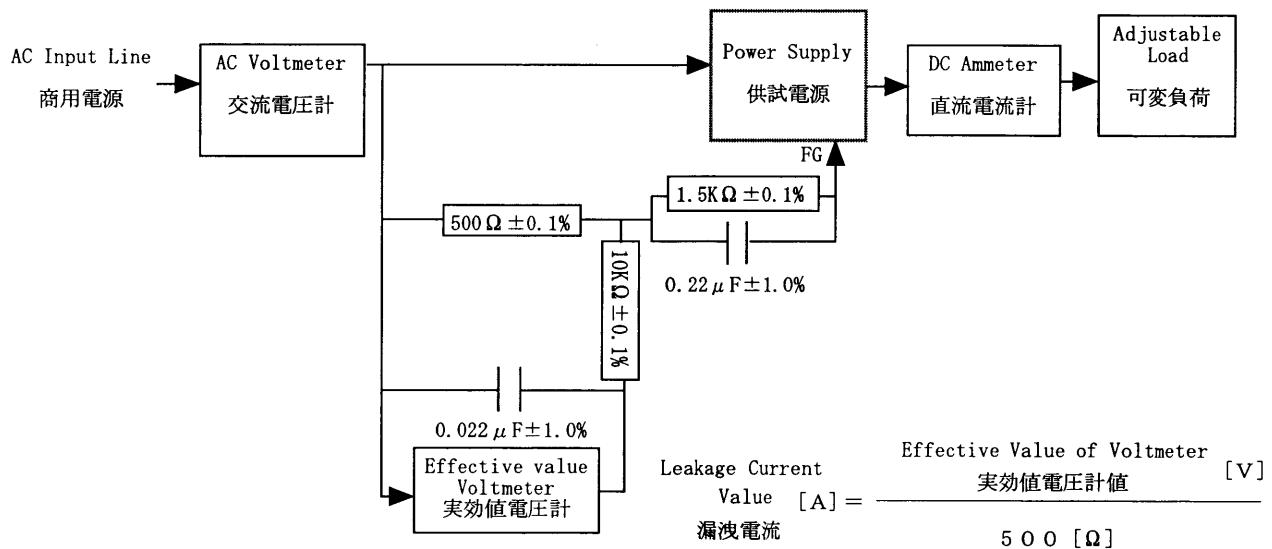


Figure B (IEC60950)

COSEL

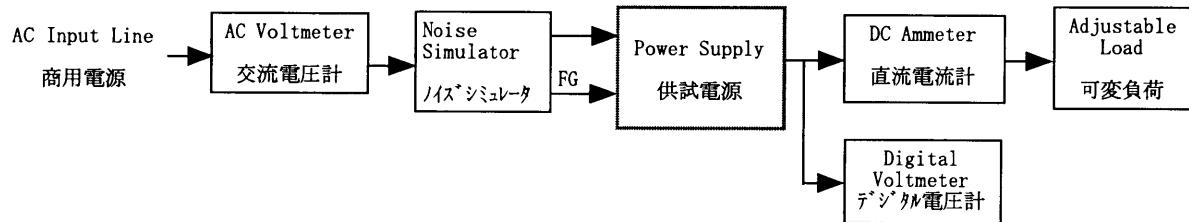


Figure C

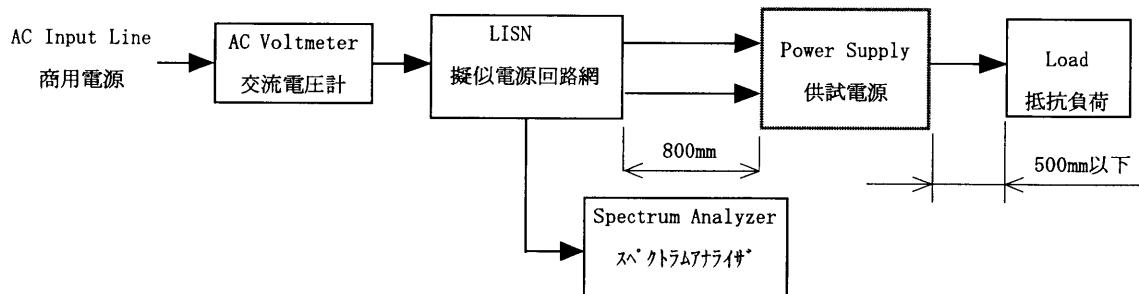


Figure D

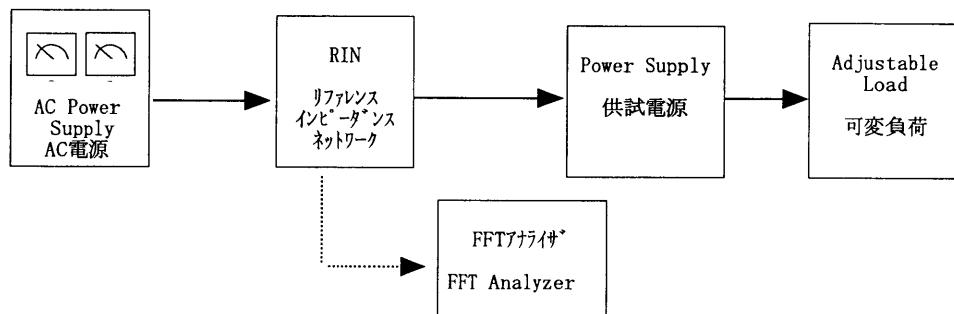


Figure E